

# Curriculum Vitæ

Luis M. Correia

Lisbon, December 2023



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# Chronology and Brief Data



## Personal Information

Surname / Name	Correia, Luis M. (de Jesus Sousa Correia, Luis Manuel)
Address	Lisbon
Email	luis.m.correia@tecnico.ulisboa.pt
Nationality	Portuguese
Birth date	1958/10/23
Gender	Male

## Professional Academic Experience

The whole academic career has been developed at IST (Instituto Superior Técnico), in the area of Telecommunications, Department of Electrical and Computer Engineering (DEEC), from the University of Lisbon (UoL) as a full-time Professor/Researcher, and in associated R&D (Research & Development) centres, *Centro de Análise e Processamento de Sinais* (CAPS), *Instituto de Telecomunicações* (IT) and *Instituto de Engenharia de Sistemas e Computadores* (INESC).

Date	2023/Aug. –
Position	Full Professor.
Date	2021/Mar.
Position	EurAAP (European Association on Antennas and Propagation) Propagation Award.
Date	2020/Jan. – Apr.
Position	Vice-President for Companies Partnerships & Técnico+, IST.
Date	2018/Oct.
Position	Honorary Professor, Gdańsk University of Technology (Poland)
Date	2018/Jan. – 2018/Dec.
Position	Member of the Board of Directors, INESC-ID.
Date	2016/Apr. – 2019/Dec.
Position	Vice-President for Taguspark Campus, IST.
Date	2016/Jan. –
Position	Senior Researcher, INESC-ID.
Date	2012/Oct. –
Position	Coordinating Researcher, INOV-INESC.
Date	2010/Dec.
Position	Qualified, in absolute merit, for the position of Full Professor.

Date	2010/Apr. – 2010/Dec.
Position	Vice-President for Research, DEEC.
Date	2005/Jan. – 2012/Sep.
Position	Senior Researcher, IT.
Date	2002/Nov. – 2023/Jul.
Position	Associate Professor, with Habilitation.
Date	2002/Jan. – 2002/Nov.
Position	Assistant Professor, with Habilitation.
Date	1998/Oct. – 1999/Jan.
Position	Visiting Professor, Delft Technical University, Delft, The Netherlands (sabbatical leave ).
Date	1998/Oct. – 2000/Sep.
Position	Member of the Board of Directors, DEEC
Date	1996/May – 2002/Jan.
Position	Assistant Professor, with Tenure.
Date	1995/Dec.
Position	Qualified, in absolute merit, for the position of Associate Professor.
Date	1994/Oct. – 2004/Dec.
Position	Researcher, IT.
Date	1991/May – 1996/May
Position	Assistant Professor.
Date	1985/Oct. – 1991/May
Position	Teaching Assistant
Date	1983/Jan. – 1994/Sep.
Position	Researcher, CAPS.
Date	1982/Mar. – 1985/Oct.
Position	Research Assistant.

**Professional  
Non-Academic  
Experience**

In parallel to the full-time Professor/Researcher position, some other positions have been taken, outside the university:

Date	2021/Apr. – 2022/Dec.
Position	President of CENELEC's Portuguese Technical Committee 106 "Electromagnetic Fields in the Human Environment" (CTE 106).
Date	2013/Oct. – 2015/Mar.
Position	Non-Executive Member of the Board of Directors, EID.
Date	2011/Jan. – 2013/Dec.
Position	Executive Member of the Steering Board, Net!Works European Platform
Date	2006/Jan. – 2010/Dec.
Position	Executive Member of the Steering Board, eMobility European Platform

<b>Education and Training</b>	All degrees have been obtained from IST, UoL, in the area of Telecommunications.																																																																									
Date	2002/Jan.																																																																									
Degree	Habilitation ( <i>Agregação</i> ) (Unanimously approved - the highest grade)																																																																									
Technical Area	Electrical and Computer Engineering																																																																									
Date	1991/May																																																																									
Degree	Doctor (Ph.D.) (Unanimously approved, with Distinction and Praise - the highest grade)																																																																									
Technical Area	Electrical and Computer Engineering																																																																									
Date	1985/July																																																																									
Degree	Master of Science (2 years degree) (grade of Very Good - the highest grade)																																																																									
Technical Area	Electrical and Computer Engineering																																																																									
Date	1981/Sep.																																																																									
Degree	<i>Licenciado</i> (5 years degree) (grade of 16, over 20)																																																																									
Technical Area	Electrical Engineering																																																																									
<b>Personal Skills</b>																																																																										
Native language	Portuguese																																																																									
Other languages	<b>Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user</b> <b>Common European Framework of Reference for Languages</b>																																																																									
User self-evaluation	<table><tr><th colspan="4">Understanding</th><th colspan="4">Speaking</th><th colspan="2">Writing</th></tr><tr><th colspan="2">Listening</th><th colspan="2">Reading</th><th colspan="2">Interaction</th><th colspan="2">Production</th><th colspan="2"></th></tr><tr><td>English</td><td>C2</td><td>Proficient</td><td>C2</td><td>Proficient</td><td>C2</td><td>Proficient</td><td>C2</td><td>Proficient</td><td>C2</td><td>Proficient</td></tr><tr><td>French</td><td>C2</td><td>Proficient</td><td>C2</td><td>Proficient</td><td>C2</td><td>Proficient</td><td>C2</td><td>Proficient</td><td>B1</td><td>Independent</td></tr><tr><td>Italian</td><td>B2</td><td>Independent</td><td>B2</td><td>Proficient</td><td>A2</td><td>Basic</td><td>A2</td><td>Basic</td><td>A1</td><td>Basic</td></tr><tr><td>Spanish</td><td>C2</td><td>Proficient</td><td>C2</td><td>Proficient</td><td>C1</td><td>Proficient</td><td>C1</td><td>Proficient</td><td>A2</td><td>Basic</td></tr></table>										Understanding				Speaking				Writing		Listening		Reading		Interaction		Production				English	C2	Proficient	C2	Proficient	C2	Proficient	C2	Proficient	C2	Proficient	French	C2	Proficient	C2	Proficient	C2	Proficient	C2	Proficient	B1	Independent	Italian	B2	Independent	B2	Proficient	A2	Basic	A2	Basic	A1	Basic	Spanish	C2	Proficient	C2	Proficient	C1	Proficient	C1	Proficient	A2	Basic
Understanding				Speaking				Writing																																																																		
Listening		Reading		Interaction		Production																																																																				
English	C2	Proficient	C2	Proficient	C2	Proficient	C2	Proficient	C2	Proficient																																																																
French	C2	Proficient	C2	Proficient	C2	Proficient	C2	Proficient	B1	Independent																																																																
Italian	B2	Independent	B2	Proficient	A2	Basic	A2	Basic	A1	Basic																																																																
Spanish	C2	Proficient	C2	Proficient	C1	Proficient	C1	Proficient	A2	Basic																																																																
Social skills	Capacity to work in a team and to adapt to multicultural environments, due to the experience in over 30 years of integrating R&D projects teams at the international level, namely in Europe. Communication capacity, coming from the experience in more than 40 years in teaching.																																																																									
Organisational skills	Leadership capacity, as well as organising and managing teams and projects, due to the experience in over 30 years in leading a research team, projects and working groups at the international level, namely in Europe and in organising large conferences at both the national and international levels.																																																																									
Technical skills	Professional experience in Telecommunications, namely in Mobile and Wireless Communications.																																																																									
Computer skills	Domain of all computer tools required to practice the careers of Engineer, Researcher and Professor.																																																																									

Professional and Scientific Societies	IEEE – Institute of Electrical and Electronic Engineers (USA):
	– 2006 / 2014 – Portugal Communications Society Chapter Chairman
	– 2003 / – Senior Member
	– 1991 / 2003 – Member
	– 1985 / 1991 – Student Member
	OE – Engineers Association ( <i>Ordem dos Engenheiros</i> ) (Portugal):
	– 2015 / – Senior Member
	– 2002 / 2004 – Member of the Board, College on Electrical Engineering
	– 1999 / – Telecommunications Specialist
	– 1986 / 2014 – Member
	ACES – Applied Computational Electromagnetics Society (USA):
	– 1987 / 2001 – Member
	SPPCR – Portuguese Society for Protection Against Radiation ( <i>Sociedade Portuguesa para a Proteção contra Radiações</i> ) (Portugal):
	– 1996 / – Member
	APDC – Portuguese Association for Communications Development ( <i>Associação Portuguesa para o Desenvolvimento das Comunicações</i> ) (Portugal):
	– 1999 / – Member
<b>IDs</b>	
CiêncialD	D118-F0EE-50C8
ORCID	0000-0002-7765-9896



# Teaching Activities

## *Teaching at IST*

Before being awarded a grant for Ph.D. studies, and before becoming a Professor, one has taught practical and laboratory classes of courses belonging to the 4<sup>th</sup> and 5<sup>th</sup> years of the branch on Telecommunications and Electronics of the *Licenciado* degree on Electrical and Computer Engineering (LEEC: *Licenciatura em Engenharia Eletrotécnica e de Computadores*):

- Laboratory of Telecommunications (*Laboratório de Telecomunicações*),
- Complements of Antennas and Microwaves (*Complementos de Antenas e Hiperfrequências*),
- Microwaves (*Hiperfrequências*),
- Antennas (*Antenas*).

After becoming a Professor, one has proposed a new course on Mobile Communications to the Scientific Board of DEEC, which was accepted; this was the first course addressing this area of Telecommunications at IST (and even in Portugal). The course started in the academic year of 1992/93, as an optional course of LEEC, in the branch on Telecommunications and Electronics. After 1994/95, the course was also offered to the Master on Electrical and Computer Engineering (MEEC: *Mestrado em Eng. Electrotécnica e de Computadores*). The course has suffered some changes in the name along the years, due to degree restructuring, and was incorporated in MEEC after the Bologna Agreement.

- 1992/93 - 1993/94: Mobile Communications (*Comunicações Móveis*) (LEEC).
- 1994/95 - 2000/01: Mobile Communications (*Comunicações Móveis*) (LEEC, MEEC - pre-Bologna Agreement),
- 2001/02 - 2003/04: Personal and Mobile Communications Systems (*Sistemas de Comunicações Móveis e Pessoais*) (LEEC, MEEC - pre-Bologna Agreement),
- 2004/05 - 2005/06: Mobile Communications Systems (*Sistemas de Comunicações Móveis*) (LEEC, MEEC - pre-Bologna Agreement),
- 2006/07 - : Mobile Communications Systems (*Sistemas de Comunicações Móveis*) (MEEC - Bologna Agreement),

Within this course, one has:

- written supporting texts, with annual updates;
- written a collection of problems, with annual updates;
- organised, since the beginning, the Seminars on Mobile Communications, at the end of the semester, with talks from representatives from companies and public institutions;
- organised, since the beginning, study visits, at the end of the semester, to operators;
- obtained permission, from the Scientific Board of IST, to teach in English since 2005/06, being the first course of LEEC to do so in a continuous way.

One has been responsible for other courses as well:

- 2004/05: Non-Ionising Radiations (*Radiações Não-Ionizantes*), MEFT (Master in Technological Physics Engineering - *Mestrado em Eng. Física Tecnológica*), which dealt with exposure to electromagnetic fields.
- 2009/10 - 2010/11: Mobile and Wireless Communications Systems (*Sistemas de Comunicações Móveis e sem Fios*), POSTIT (Graduate Studies in Information and Communication Technologies - *Pós-Graduação em Telecomunicações e Tecnologias de Informação*), which dealt with the mobile cellular systems component;
- 2009/10 - 2010/11: Aspects of Telecommunications Systems (*Aspectos de Sistemas de Telecomunicações*), POSTIT (Graduate Studies in Information and Communication Technologies - *Pós-Graduação em Telecomunicações e Tecnologias de Informação*), which dealt with the physical layer systems component;
- 2009/10 - 2010/11: Portfolio (*Portfólio*), MEEC, which dealt with soft skills in general;
- 2022/23 - : Communication in Engineering (*Comunicação em Engenharia*), MEEC, which deals with soft skills, focused on writing of documents and on elaboration of posters and presentations.
- 2022/23 - : Engineering Practice (*Prática de Engenharia*), MEEC, which deals with soft skills, focused on methods for dealing with and solving problems, team working and leadership, and meetings structuring and minutes.

One has been invited to teach other courses (a full list is given in Annex A):

- 2002/03 - 2003/04: Policies in Telecommunications (*Políticas de Telecomunicações*), MGT (Master in Technology Management - *Mestrado em Gestão de Tecnologia*), lecturing the ICT component.
- 2009/10 - : Project Management in Engineering (*Gestão de Projectos em Engenharia*), MEEC, being responsible for supervising students in projects and for lecturing practical classes;
- 2011/12 - 2012/13: Intelligent Transportation Systems (*Sistemas de Transportes Inteligentes*), MPOT (Master in Planning and Operation of Transports - *Mestrado em Planeamento e Operação de Transportes*), lecturing the ICT component;
- 2013/14 - 2017/18: Entrepreneurship, Innovation and Transfer of Technology (*Empreendedorismo, Inovação, e Transferência de Tecnologia*), MEEC, being responsible for supervising students in projects in ICT;

### ***Teaching at other schools***

One has been invited to teach courses in other schools, in Portugal and abroad:

- 1990/91 - 1995/96: Transmission Lines, Waveguides and Optical Fibres (*Linhas de Transmissão, Guias de Onda e Fibras Óticas*), Bachelor on Electrical Engineering (*Bacharelato em Eng. Eletrotécnica*), IMPE (Army's Youngsters Military Institute – *Instituto Militar dos Pupilos do Exército*), Lisbon, Portugal.
- 2009/10: Non-Ionising Radiations (*Radiações Não-Ionizantes*), MRATS (Master in Radiations Applied to Health Technologies - *Mestrado em Radiações Aplicadas às Tecnologias da Saúde*), ESTSL (Higher School for Health Technologies - *Escola Superior de Tecnologia da Saúde*), Lisbon, Portugal;
- 2009/10 – 2012/13: Mobile Communications (*Comunicações Móveis*), MERSC (Master in Communications Systems and Networks Engineering - *Mestrado em Engenharia de Redes e Sistemas de Comunicação*), ISUTC (Higher Institute for Transports and Communications - *Instituto Superior de Transportes e Comunicações*), Maputo, Mozambique.

- 2010/11 – 2011/12: Mobile Communications (*Comunicações Móveis*), *Licenciatura* in Telecommunications Engineering, UCAN (Catholic University of Angola – *Universidade Católica de Angola*), Luanda, Angola;
- 2010/11: Mobile and Satellite Communications (*Comunicações Móveis e por Satélite*), MGT (Master in Management in Telecommunications - *Mestrado em Gestão nas Telecomunicações*), ISUTC (Higher Institute for Transports and Communications - *Instituto Superior de Transportes e Comunicações*), Maputo, Mozambique;

### ***Supervision of Students and Grants***

One has been supervising students, research grant holders and post-docs, in the area of Mobile & Wireless Communications, in a total over 230, the global numbers being listed below (detailed information available in Annex B):

- 2 Post-Doc.;
- 14 Ph.D. students;
- 23 M.Sc. pre-Bologna Agreement students;
- 83 M.Sc. Bologna Agreement students;
- 68 *Licenciado* students;
- 29 ERASMUS *Licenciado* and M.Sc. students;
- 13 research grant holders.

Regarding *Licenciado*'s and M.Sc. Bologna Agreement theses, in order to favour a link between students and industry, all theses proposed to students have been held in collaboration with companies or other entities.

The average annual supervision rate, as a Professor, is:

- 0.44 - Ph.D. students,
- 6.34 - *Licenciado* and M.Sc. students.

In 1999, “*Guidelines to write a report or a thesis*” have been written, in order to help students to write their papers and theses, and in 2001 “*Guidelines for a Good Presentation*” have been established, so that students can prepare the presentation of papers in conferences and theses. These guidelines have been updated since then.

Annex B contains a detailed description of all supervised students and grant holders, together with the titles of the theses and corresponding dates. Some of these works originated publications in conferences and journals, at both the national and international levels, as listed in Annex C.

Some supervised works have won science and technology prizes at the national level:

- 1995 – 1st Prize, Communications Contest, promoted by the Portuguese Communications Institute (*Instituto de Comunicações de Portugal*), awarded to Nuno Gonçalves, Diana Caiado e Ana Domingues.
- 1997 – 2<sup>nd</sup> Prize, Communications Contest, promoted by the Portuguese Communications Institute (*Instituto de Comunicações de Portugal*), awarded to Lívio Santos, Valentina Garcia e Lúcio Ferreira.
- 1997 – 1<sup>st</sup> Prize, Young Engineer Contest, promoted by the Engineers Association (*Ordem dos Engenheiros*), awarded to Nuno C. Gonçalves.
- 1997 – 2<sup>nd</sup> Prize, Young Engineer Contest, promoted by the Engineers Association (*Ordem dos Engenheiros*), awarded to Fernando J. Velez.
- 1998 – 2<sup>nd</sup> Prize, Young Engineer Contest, promoted by the Engineers Association (*Ordem dos Engenheiros*), awarded to Ana Claro and José Ferreira.
- 2005 – 3<sup>rd</sup> Prize Ex-Equo, Young Engineer Innovation Contest, promoted by the Engineers Association (*Ordem dos Engenheiros*), awarded to Luis Santo.
- 2006 – Honourable Mention, Young Engineer Innovation Contest, promoted by the Engineers Association (*Ordem dos Engenheiros*), awarded to Carla Oliveira.

## ***Praises and Honours***

The Director of IMPE has praised the teaching activities “*for having a high standard of honesty and justice, and should be considered an example in the ethic and professional training of the students*”, Jan. 1997.

In the students’ inquiries on courses and teaching staff (QUC: *Qualidade das Unidades Curriculares*), launched by the Pedagogical Board of IST in 2007/08, one has obtained an average grade of at least 86% as a lecturer and 84% for the course on Mobile Communications Systems, which is 14% to 18% above average. One has been considered an Excellent Professor in six academic years.



# Research and Development Activities

## ***Publications***

The initial research area, at the level of the M.Sc. and Ph.D. theses, was performed within numerical methods applied to antennas and scattering by objects of arbitrary shape. Afterwards, research focused on mobile and wireless communications, namely addressing propagation, channels, radio networks, services and cellular planning.

Work has been published in journals, strategic documents, books, conferences (with peer review) and workshops (without peer review) at both the national and international levels, in total being over 500 publications (detailed information available in Annex C), namely:

- 6 - International Books – Edition,
- 24 - International Books – Contributions,
- 9 - International Strategic Documents – Edition,
- 18 - International Strategic Documents – Contributions,
- 61 - International Journals Papers (with peer review),
- 230 - International Conferences Papers (with peer review),
- 25 - International Conferences Keynotes,
- 51 - International Workshops Papers (without peer review),
- 1 - National Books – Edition,
- 5 - National Books – Contributions,
- 18 - National Journals Papers (without peer review),
- 43 - National Conferences Papers (with peer review),
- 22 - National Conferences Keynotes,
- 65 - National Workshops Papers (without peer review).

One should note that most of the papers in Workshops, at both the national and international levels, have been presented upon invitation from the organisers.

Some of the publications have been co-authored with international colleagues:

- 3 (50%) - International Books – Edition,
- 9 (38%) - International Books – Contributions,
- 9 (100%) - International Strategic Documents – Edition,

- 37 (61%) - International Journals Papers (with peer review),
- 59 (26%) - International Conferences Papers (with peer review),
- 7 (14%) - International Workshops Papers (without peer review).

The average annual publication rate, as a Professor, is:

- 0.19 - International Books – Edition,
- 0.75 - International Books – Contributions,
- 0.28 - International Strategic Documents – Edition,
- 0.56 - International Strategic Documents – Contributions,
- 1.91 - International Journals Papers (with peer review),
- 7.19 - International Conferences Papers (with peer review),
- 0.78 - International Conferences Keynotes,
- 1.59 - International Workshops Papers (without peer review),
- 0.03 - National Books – Edition,
- 0.16 - National Books – Contributions,
- 0.56 - National Journals Papers (without peer review),
- 1.34 - National Conferences Papers (with peer review),
- 0.69 - National Conferences Keynotes,
- 2.03 - National Workshops Papers (without peer review).

Publication metrics, regarding citations, are as follows:

- 6 891 – total citations
- 33 –  $h$ -index ( $h$  publications with, at least,  $h$  citations)
- 110 –  $i10$ -index (number of publications with, at least, 10 citations)
- 11 –  $i100$ -index (number of publications with, at least, 100 citations)

Publication quartile metrics, regarding International Journals Papers, are as follows:

- 36 (59.0%) – Q1 (papers in 1<sup>st</sup> quartile journals)
- 12 (19.7%) – Q2 (papers in 2<sup>nd</sup> quartile journals)
- 8 (13.1%) – Q3 (papers in 3<sup>rd</sup> quartile journals)
- 0 ( 0.0%) – Q4 (papers in 4<sup>th</sup> quartile journals)
- 5 ( 8.2%) – Q? (papers in non-defined quartile journals)

One should note that the papers in non-defined quartile journals were the results of invitations.



Publication impact metrics, regarding International Journals Papers, are as follows: the Impact Factor is defined for 91.7% of the papers, ranging in [0.68, 13.61], with an average of 4.83.

## ***Awards and Honours***

The following Awards and Honours have been granted:

- IEEE Communications Society, Special Recognition “*for achieving excellent performance in Chapter activities as Chairman of the Portugal Chapter*”, Mar. 2009.
- IEEE, Appreciation “*for Notable Services and Contributions towards the advancement of IEEE and the Engineering Professions*”, Mar. 2016.
- Gdańsk University of Technology (Poland), Honorary Professor “*for significant scientific and professional achievements, and active cooperating with Gdańsk University of Technology*”, Oct. 2018.
- EurAAP (European Association on Antennas and Propagation) Propagation Award 2021, “*for leadership in the field of propagation for wireless and mobile communications*”, Mar. 2021.
- Stanford University (Stanford, CA, USA), listed in the World’s Top 2% Single-Year Impact Scientists, Oct. 2021.
- Stanford University (Stanford, CA, USA), listed in the World’s Top 2% Career-Long Impact Scientists, Oct. 2022.
- Stanford University (Stanford, CA, USA), listed in the World’s Top 2% Career-Long Impact Scientists, Oct. 2023.

The following best paper awards have been received:

- Best Paper Award: *VTC 2008 Fall - 68<sup>th</sup> IEEE Vehicular Technology Conference*, Calgary, Canada, Sep. 2008, awarded to Gonçalo Carpinteiro and Luis M. Correia, “Performance Evaluation in All-Wireless Wi-Fi Networks”.
- Best Student Paper Award: *7<sup>o</sup> Congresso do Comité Português da URSI*, Lisbon, Portugal, Nov. 2013: awarded to Ricardo M. Santos, in Ricardo M. Santos, Luis M. Correia, Carlos Alves, Luis Pissarro and Álvaro Albino, “Assessment of Wind Turbines Generators influence in Aeronautical Radars”.
- Best Paper Award: *EuCNC 2019 – 28<sup>th</sup> European Conference on Networks and*

*Communications*, Valencia, Spain, June 2019: awarded to Behnam Rouzbehani, Vladimir Marbukh, Kamran Sayrafian and Luis M. Correia, “Towards Cross-Layer Optimization of Virtualized Radio Access Networks”.

## ***Participation in R&D Projects***

As a Professor, most of the R&D activity has been developed within projects, at both national and international levels (detailed information available in Annex D), in a total of 11 national and 33 international projects:

- 3 - National Projects, funded by JNICT;
- 8 - National Projects, funded by industry;
- 8 - International Projects, funded by the European Commission, via the COST Framework;
- 25 - International Projects, funded by the European Commission, via the RACE, ACTS, IST, ICT, H2020 and HEU Frameworks.

In the total of the projects, a global funding of around 10 Million € has been obtained, leading to an average of around 400 k€/year.

In these projects, leadership has been taken at various levels:

- 38 - Project Leader in projects at the IST level,
- 1 - Project Leader in JNICT National Projects,
- 1 - Work Package / Task Leader in JNICT National Projects,
- 7 - Project Leader in industry National Projects,
- 1 - Work Package / Task Leader in industry National Projects,
- 2 - Chairman in EC (COST) International Projects;
- 8 - National Delegate in EC (COST) International Projects;
- 4 - Project Leader in EC (RACE, ACTS, IST, ICT and H2020) International Projects;
- 11 - Work Package / Task Leader in EC (RACE, ACTS, IST, ICT and H2020) International Projects.

In the International Projects in which one has taken leadership, it should be noted that:

- COST 259 – Project with more than 250 researchers from 90 institutions from 19 countries (18 European and Canada). One has been elected for the position of Chairman.

- COST 273 – Project with more than 300 researchers from 141 institutions from 30 countries (26 European, and Canada, Japan, Taiwan and USA). One has been elected for the position of Chairman. The project was considered a success case by the Committee of Senior Officers.
- EuConNeCts – Project following an invitation from EC officers.
- EuConNeCts2 – Project following an invitation from EC officers.
- EuConNeCts3 – Project following an invitation from EC officers.
- EuConNeCts4 – Project following an invitation from EC officers.

Participation in all these projects has originated many technical reports, which are not listed here, their key results being presented in the publications.

### ***Participation in Committees, Panels and other Bodies***

One has been invited to be part of Technical Committees, Panels and other tasks of leadership at the international level as follows (Annex E contains a detailed list of all activities):

- 6 - member of the Technical Committees of organisations,
- 1 - member of the International Advisory Board of university,
- 3 - Editor in journals,
- 4 - member of the Technical Committees of journals,
- 14 - Editor/Co-Editor of Special Issues in journals,
- 3 - General Chair/Vice-Chair of conferences,
- 20 - Technical Programme Chair/Co-Chair of conferences,
- 25 - Area Chair/Co-Chair of conferences,
- 26 - organisation/moderation of Panels in conferences,
- 13 - participation in Panels in conferences,
- 169 - member of the Technical Programme Committees of conferences.

Concerning the participation in the eMobility/Net!Works European Technological Platforms, one has been:

- invited to be a member of the *Expert Group* since the beginning, having contributed and edited several strategic documents (see Annex E);
- invited to launch and lead the Working Group on Applications, having contributed and edited several editions of the *Strategic Applications Agenda* (see Annex E);

- elected a member of the *Steering Board*, from 2006 to 2014, as one of the 5 representatives of universities.

Concerning the participation in IEEE Communications Society activities, one has been (see Annex E):

- 2006 – 2014: elected Chairman of the *Portugal Chapter*;
- 2018 – 2023: invited to be a member of the *Conferences Council*;
- 2018 – 2019: invited to be a member of the *Industry Outreach Board*;
- 2019 – 2021: invited to be a member of the *GLOBECOM/ICC Management & Strategy (GIMS) Standing Committee*, leading the Finances Working Group;
- 2020 – 2022: invited to be a member of the *Technological Evolution and Initiatives (TE&I) Standing Committee*;
- 2022 – 2023: invited to be the Chair of the *GLOBECOM/ICC Management & Strategy (GIMS) Standing Committee*;
- 2022 – 2023: invited to be a member of the *Functions, Operations and Goals (FOG) SubCommittee*.

Concerning the participation in EURACON (European Association for Communications & Networking) activities, one has been (see Annex E):

- 2016 – 2018: elected Member of the Board of Directors;
- 2019 – 2021: elected Secretary of the Board of Directors;
- 2022 – 2024: elected Chairman of the Board of Directors.

### ***Books and Papers Reviewing Activity***

One has reviewed, upon invitation, books and papers for international publishers, journals and conferences as follows (Annex F contains a detailed list of all activities):

- 25 books, for Kluwer Academic Publishers, John Wiley, Elsevier and Cambridge University Press;
- 135 papers for 35 international journals;
- numerous papers for 43 international and national conferences.

## ***Evaluation of R&D Projects and Institutions***

One has been invited to evaluate R&D projects (Annex G contains a detailed list of all activities) at the international and national levels, in a total of 86 evaluations, for funding agencies in 12 countries, European COST and the European Commission:

- 30 - European Commission;
- 5 - European Council: COST Programme;
- 3 - Austria: FWF - *Fonds zur Förderung der wissenschaftlichen Forschung* (Austrian Science Fund); FFG - *Österreichische Forschungsförderungsgesellschaft* (Austrian Research Promotion Agency);
- 13 - Belgium: FWO - *Fonds Wetenschappelijk Onderzoek - Vlaanderen* (Research Foundation Flanders); K.U. Leuven Research Council; FNS/FNRS - *Fonds de la Recherche Scientifique* (Fund for Scientific Research);
- 3 - Canada: Alberta I. Fund; MITACS (National Organisation Funding Research and Training Programs); NSERC (Natural Sciences and Engineering Research Council of Canada);
- 5 - Finland: Academy of Finland;
- 2 - France: ANR - *Agence Nationale de la Recherche* (National Agency for Research); IRISA, Univ. Rennes;
- 12 - Germany: DFG - *Deutsche Forschungsgemeinschaft* (German Research Foundation);
- 1 - Ireland: SFI (Science Foundation Ireland);
- 1 - The Netherlands: SenterNovem (Agency for Innovation);
- 6 - Portugal: FCT – *Fundação para a Ciência e a Tecnologia* (Foundation for Science and Technology); ANI – *Agência Nacional de Inovação* (National Innovation Agency); AICEP – *Agência para o Investimento e Comércio Externo de Portugal* (Portugal Global Trade & Investment Agency);
- 2 - Russia: RUDN University Moscow;
- 1 - Serbia: Science Fund of the Republic of Serbia;
- 2 - Spain: AAC - *Agencia Andaluza del Conocimiento* (Andalusian Agency for Knowledge).

One has been invited to be part of the evaluation of R&D in institutions (Annex G contains a detailed list of all activities) at the international level, in a total of 3 institutions:

- 1 - Finland: Univ. Oulu, Oulu

- 1 - France: AERES - *Agence d'Évaluation de la Recherche et de l'Enseignement Supérieur* (Agency for the Evaluation of Research and Higher Education)
- 1 - Germany: DFG - *Deutsche Forschungsgemeinschaft* (German Research Foundation)

### ***Participation in Theses and Other Committees***

One has been invited to be part of the following evaluation committees of theses and academic positions, at both the national and international level (Annex H contains a detailed list of all activities):

- 6 - international *Habilitation*,
- 7 - international academic positions,
- 37 - international Ph.D.,
- 2 - national academic positions,
- 12 - national Ph.D.,
- 13 - national M.Sc. (pre-Bologna Agreement).

### ***Performance Evaluation***

While a member of IT, performance evaluation has been conducted, with the following results:

- 2005/2008: 29 points (7.25 times above the minimum of 4).
- 2006/2009: 30 points (7.5 times above the minimum of 4).
- 2007/2010: 29 points (7.25 times above the minimum of 4).
- 2008/2011: 29 points (7.25 times above the minimum of 4).

While a member of INESC-ID, performance evaluation has been conducted, with the following results:

- 2016/2018: Excellent (316.29 points, i.e., 3.16 times above the minimum of 100 for that grade, the highest one).

# Knowledge Transfer Activities

## ***Teaching at Training Courses and Ph.D. Schools***

One has been invited to teach courses within Training Courses for Industry and other Institutions, and also within Ph.D. Schools, at both the national and international level, having organised a number of them as well (Annex I contains a detailed list of all activities), as follows:

- 33 - organisation of National Training Courses,
- 48 - lecturing of National Training Courses,
- 9 - lecturing of International Training Courses,
- 5 - organisation of International Ph.D. Schools,
- 16 - lecturing of International Ph.D. Schools.

## ***Training Courses Taken***

One has also taken courses in communications areas, in order to learn how to communicate better:

- *Using social media to communicate your research*, COST Academy, Feb. 2018, Brussels, Belgium
- *Storytelling: spotting and writing a good story. Getting people to listen*, COST Academy, Feb. 2019, Brussels, Belgium
- *Working with the media – mastering media interviews*, COST Academy, Oct. 2019, Brussels, Belgium

## ***Consulting***

One has developed consulting activity for several public and private entities:

- Parliament
- Presidency of the Council of Ministers
- Ministry of Health
- Ministry of Infrastructures and Housing
- Ministry of Internal Affairs

- Ministry of Justice
- Ministry of National Defence
- Ministry of Science and Technology
- Ministry of Social Security
- Armes Forces
- ICP/ANACOM (Telecom Regulator)
- IP-Infraestruturas de Portugal (Infrastructure Operator)
- Optimus/NOS (Telecom Operator)
- TMN (Telecom Operator)
- Vodafone (Telecom Operator)

It should be noted also that:

- One has been invited to be part of the evaluation jury of several public calls for tenders established by ICP/ANACOM and the Ministry of Justice.
- One has been invited to preside the evaluation jury of a public call for tender established by SIRESP, the Integrated System for Portugal's Security and Emergency Networks.
- One has been nominated by the Ministry of Science and Technology to be part of the Interministerial Working Group on the transposition of the European Council Recommendation on exposure to electromagnetic radiation.
- One has been invited to participate in the development of the programme for electronic monitoring and tagging of offenders within the Ministry of Justice.

### ***Participation in Evaluation Committees***

One has organised or has been invited to be part of evaluation committees for grants on innovation, entrepreneurship and personal development:

- July 2010: *Prémio monIT 1<sup>st</sup> edition – Exploring Radiofrequencies*, organised by IST and IT, aimed at high school pupils, Lisbon, Portugal (chair).
- July 2011: *Prémio monIT 2<sup>nd</sup> edition – Radiofrequencies and Society*, organised by IST and IT, aimed at high school pupils, Lisbon, Portugal (chair).
- July 2012: *Prémio monIT 3<sup>rd</sup> edition – Radiofrequencies in Daily Life*, organised by IST and IT, aimed at high school pupils, Lisbon, Portugal (chair).
- July 2014: *Prémio FAQtos 1<sup>st</sup> edition – Generation Radiofrequencies*, organised by IST and INOV-INESC, aimed at high school pupils, Lisbon, Portugal (chair).



- July 2015: *Prémio FAQtos 2<sup>nd</sup> edition – Catch the RF Wave*, organised by IST and INOV-INESC, aimed at high school pupils, Lisbon, Portugal (chair).
- July 2016: *Prémio FAQtos 3<sup>rd</sup> edition – Tune in the RF Future*, organised by IST and INOV-INESC, aimed at high school pupils, Lisbon, Portugal (chair).
- July 2017: *Prémio FAQtos 4<sup>th</sup> edition – Applying RFs*, organised by IST and INOV-INESC, aimed at high school pupils, Lisbon, Portugal (chair).
- July 2018: *Prémio FAQtos 5<sup>th</sup> edition – Society and RFs*, organised by IST and INOV-INESC, aimed at high school pupils, Lisbon, Portugal (chair).
- July 2019: *Prémio FAQtos 6<sup>th</sup> edition – The Wave of RFs*, organised by IST and INOV-INESC, aimed at high school pupils, Lisbon, Portugal (chair).
- Mar. 2020: *TecStorm – A Hackathon on Entrepreneurship*, organised by JuniTec, aimed at university students, Lisbon, Portugal.
- July 2021: *Prémio FAQtos 7<sup>th</sup> edition – Applying RFs*, organised by IST and INOV-INESC, aimed at high school pupils, Lisbon, Portugal (chair).
- July 2022: *Prémio FAQtos 8<sup>th</sup> edition – RFs and Society*, organised by IST and INOV-INESC, aimed at high school pupils, Lisbon, Portugal (chair).
- Mar. 2023: *Innovation Challenge – Madeira edition 2023* (Desafio Inovação – Piloto Madeira 2023), organised by SIRESP, aimed at university students, Funchal, Portugal (chair).
- Apr. 2023: *Seeds for the Future 2023*, organised by Huawei, aimed at university students, Lisbon, Portugal.
- June 2023: *Innovation Challenge – National edition 2023* (Desafio Inovação 2023), organised by SIRESP, aimed at university students, Lisbon, Portugal (chair).
- June 2023: *Internet for All*, organised by IEEE Communications Society & IEEE Humanitarian Technologies Board, aimed at researchers, New York, NY, USA.
- July 2023: *Prémio FAQtos 9<sup>th</sup> edition – Discovering RFs*, organised by IST and INOV-INESC, aimed at high school pupils, Lisbon, Portugal (chair).

## **Organisation of Conferences and Talks**

One has been invited to organise conferences, at both the national and international levels, where the roles of General Chair/Vice-Chair or Technical Programme Chair/Co-Chair have been taken, according to the conference format (Annex E contains a detailed list of all

activities):

- 3 - General Chair/Vice-Chair of conferences,
- 19 - Technical Programme Chair/Co-Chair of conferences,

Also, one has been taken the initiative to organise talks and seminars at the national level (Annex J contains a detailed list of all activities), in a total of 77.

## ***Scientific and Technological Dissemination***

Activity has been developed in the area of scientific and technological dissemination, mainly based on projects ITEM, monIT and FAQtos (Annex D contains a detailed description of these projects). One has taken the leadership of a team that has given talks throughout the country (in high schools, hospitals, health centres, municipalities, among many other public and private locations). In addition, one has been invited to give talks in high schools (Annex K contains a detailed list of all activities), in a total of 61.

Articles, in a total of 12, have been written regularly in the *Jornal i* newspaper (a general public one), as part of IST's contribution to scientific and technological communication, which ended up being collected in a book edited by IST Press. Furthermore, a number of articles have been written for general public newspapers and magazines, besides presence in various news media.

In 2022 and 2023, within a collaboration with ACIST (*Associação Empresarial de Comunicações de Portugal* – Portuguese Business Association for Communications), a series of videos and podcasts were developed addressing telecommunication topics, around 5G and IoT.

## ***Industry Activity***

Following invitations, one has been:

- 2013/Oct. – 2015/Mar.: Non-Executive Member of the Board of Directors of EID, a manufacturer of telecommunications equipment for defence.
- 2021/Apr. – 2022/Dec.: President of CENELEC's Portuguese Technical Committee 106 "Electromagnetic Fields in the Human Environment" (CTE 106).

# University Management Activities

## *Participation in Management Bodies*

One has been a representative of Teaching Assistants at:

- 1984/86 – DEEC Department Council.
- 1985/86 – IST Pedagogical Council;
- 1988/90 – DEEC Department Council;

As a Professor, one has been:

- Feb. 1998 / Sep. 1998 - DEEC Library Responsible.

It should be noted that, besides current management, one has:

- initiated the journal binding programme;
- introduced Internet access and CD-ROMs access.
- Oct. 1998 / Sep. 2000 - member of the Board of Directors of DEEC, in charge of finances.

It should be noted that, besides current management, one has:

- established the department financial guidelines;
- structured the department into cost centres;
- audit the financial status of the department over a period of 6 years.
- launched protocols in between the department and companies, aiming at a closer collaboration.
- Oct. 2000 / Sep. 2001 - coordinator of the Telecommunications branch of the Scientific Board of MEEC.
- Oct. 2002 / Sep. 2004 - coordinator of the Telecommunications branch of the Scientific Board of LEEC.

It should be noted that, besides current management, one has:

- promoted the coordination of syllabus and topics among the various courses;
- promoted the reformulation of the Final Degree Project, including its regulation, proposal submission and evaluation;
- Oct. 2008 / Mar.2010 - coordinator of the group of courses on Systems and Networks in the Telecommunications Scientific Area.

It should be noted that, besides current management, one has:

- launched a visiting programme for pupils to the labs, which has encompassed over

1 500 pupils during that period;

- organised a training course on Telecommunications Systems for High Schools (*FORTES - Formação em Sistemas de Telecomunicações para o Ensino Secundário*), to high school Physics teachers, which had 5 editions.
- Apr. 2010 / Dec. 2010 - DEEC Vice-President for Research, Development and External Affairs.

It should be noted that, besides current management, one has:

- launched DEEC's Academic Year Opening Session;
- launched the talks cycle "Knowing DEEC";
- launched a visiting programme for pupils to DEEC's labs.
- Apr. 2016 / Dec. 2019 - IST Vice-President for the Management of Taguspark Campus.

It should be noted that, besides current management, one has:

- reorganised the administrative services;
  - restructured the provision of services by companies to the campus;
  - reorganised the communication activities;
  - organised activities with students,
  - launched IST's professional post-graduate studies school (Técnico+).
  - Jan. 2018 / Dec. 2018 - INESC-ID Director.
- It should be noted that, besides current management, one has:
- established a Communication Plan;
  - established a Projects Promotion Plan;
  - relaunched a monthly Newsletter.
- Jan. 2020 / Abr. 2020 - IST Vice-President for Companies Partnerships & Técnico+.
  - May 2022 / - Coordinator of InTele (An Initiative for Telecommunications), joining the 10 largest companies in Portugal in the area of Telecommunications (ALTICE, CELFINET, CISCO, ERICSSON, HUAWEI, INFINERA, NOKIA, NOS, THALES and VODAFONE).

## ***Degree Coordination***

One has been invited to launch, organise and coordinate the following Professional Post-Graduate Degrees:

- Sep. 2009 / July 2011 – POSTIT (Post-Graduation on Telecommunications and

Information Technologies), a 3<sup>rd</sup> cycle degree (*DFA - Diploma de Formação Avançada*), IST, Lisbon, Portugal.

- Mar. 2009 / June 2013 – MERSC (Master on Engineering in Communication Networks and Systems), a 2<sup>nd</sup> cycle degree (M.Sc.), ISUTC, Maputo, Mozambique.
- Sep. 2021 / – CoDaS (Communications Engineering and Data Science), a 2<sup>nd</sup> cycle degree (M.Sc.) leading to Dual Degrees with U. Aalto (Helsinki, Finland) and INP – U. Grenoble Alpes (Grenoble, France), IST, Lisbon, Portugal.

### ***Performance Evaluation at IST***

Performance evaluation has been conducted as a Professor of IST, with the following results:

- 2004/2007: Excellent (412.55 points, i.e., 3.95 times above the minimum of 106.7 for that grade, the highest one)
- 2008/2009: Excellent (241.72 points, i.e., 4.53 times above the minimum of 53.3 for that grade, the highest one).
- 2010/2012: Excellent (430.27 points, i.e., 4.30 times above the minimum of 100 for that grade, the highest one);
- 2013/2015: Excellent (406.95 points, i.e., 3.70 times above the minimum of 110 for that grade, the highest one);
- 2016/2018: Excellent (310.42 points, i.e., 2.82 times above the minimum of 110 for that grade, the highest one);
- 2019/2021: Excellent (473.40 points, i.e., 4.30 times above the minimum of 110 for that grade, the highest one);



## Annex A

### Courses Taught at IST

Below, one lists all courses taught at IST (T – theoretical classes; P – problems classes; L – laboratory classes):

Academic Year	Autumn Semester		Spring Semester	
	Course	Classes	Course	Classes
1981/82			Microwaves ( <i>Hiperfrequências</i> )	P
			Laboratory of Telecommunications ( <i>Laboratório de Telecomunicações</i> )	L
1982/83	Antennas ( <i>Antenas</i> )	P	Microwaves ( <i>Hiperfrequências</i> )	P
			Laboratory of Telecommunications ( <i>Laboratório de Telecomunicações</i> )	L
1983/84	Antennas ( <i>Antenas</i> )	P	Microwaves ( <i>Hiperfrequências</i> )	P
	Laboratory of Telecommunications ( <i>Laboratório de Telecomunicações</i> )	L		
1984/85	Antennas ( <i>Antenas</i> )	P	Complements of Antennas and Microwaves ( <i>Complementos de Antenas e Hiperfrequências</i> )	P
1985/86	Antennas ( <i>Antenas</i> )	P	Microwaves ( <i>Hiperfrequências</i> )	L
1986/87	<i>Ph.D. student grant</i>		<i>Ph.D. student grant</i>	
1987/88	<i>Ph.D. student grant</i>		<i>Ph.D. student grant</i>	
1988/89	<i>Ph.D. student grant</i>		<i>Ph.D. student grant</i>	
1989/90	<i>Ph.D. student grant</i>		<i>Ph.D. student grant</i>	
1990/91	Antennas ( <i>Antenas</i> )	P	Microwaves ( <i>Hiperfrequências</i> )	P, L
1991/92	Antennas ( <i>Antenas</i> )	P	Microwaves ( <i>Hiperfrequências</i> )	P
1992/93	Antennas ( <i>Antenas</i> )	P	Mobile Communications ( <i>Comunicações Móveis</i> )	T, P
1993/94	Antennas ( <i>Antenas</i> )	P	Mobile Communications ( <i>Comunicações Móveis</i> )	T, P
1994/95	Antennas ( <i>Antenas</i> )	T	Mobile Communications ( <i>Comunicações Móveis</i> )	T, P
1995/96	Antennas ( <i>Antenas</i> )	P	Mobile Communications ( <i>Comunicações Móveis</i> )	T, P

1996/97	Antennas ( <i>Antenas</i> )	P	Mobile Communications ( <i>Comunicações Móveis</i> )	T, P
1997/98	<i>Sabbatical leave</i>		Mobile Communications ( <i>Comunicações Móveis</i> )	T, P
1998/99	<i>Sabbatical leave</i>		Mobile Communications ( <i>Comunicações Móveis</i> )	T, P
1999/00	<i>Leave on teaching credits</i>		Mobile Communications ( <i>Comunicações Móveis</i> )	T, P
2000/01	Antennas ( <i>Antenas</i> )	T, P	Mobile Communications ( <i>Comunicações Móveis</i> )	T, P
2001/02	Antennas ( <i>Antenas</i> )	P	Mobile and Personal Communications Systems ( <i>Sistemas de Comunicações Móveis e Pessoais</i> )	T, P
2002/03	<i>Leave on teaching credits</i>		Mobile and Personal Communications Systems ( <i>Sistemas de Comunicações Móveis e Pessoais</i> )	T
2003/04	<i>Leave on teaching credits</i>		Mobile and Personal Communications Systems ( <i>Sistemas de Comunicações Móveis e Pessoais</i> )	T, P
2004/05	<i>Sabbatical leave</i>		Mobile Communications Systems ( <i>Sistemas de Comunicações Móveis</i> )	T, P
			Non-Ionising Radiations ( <i>Radiações Não-Ionizantes</i> )	T
2005/06	<i>Sabbatical leave</i>		Mobile Communications Systems ( <i>Sistemas de Comunicações Móveis</i> )	T, P
2006/07	<i>Leave on teaching credits</i>		Mobile Communications Systems ( <i>Sistemas de Comunicações Móveis</i> )	T, P
2007/08	<i>Leave on teaching credits</i>		Mobile Communications Systems ( <i>Sistemas de Comunicações Móveis</i> )	T, P
2008/09	<i>Leave on teaching credits</i>		Mobile Communications Systems ( <i>Sistemas de Comunicações Móveis</i> )	T, P
2009/10	Aspects of Telecommunications Systems ( <i>Aspectos de Sistemas de Telecomunicações</i> )	T	Mobile Communications Systems ( <i>Sistemas de Comunicações Móveis</i> )	T, P
	Mobile and Wireless Communications Systems ( <i>Sistemas de Comunicações Móveis e sem Fios</i> )	T	Project Management in Engineering ( <i>Gestão de Projectos em Engenharia</i> )	P
2010/11	Aspects of Telecommunications Systems ( <i>Aspectos de Sistemas de Telecomunicações</i> )	T	Mobile Communications Systems ( <i>Sistemas de Comunicações Móveis</i> )	T, P
	Mobile and Wireless Communications Systems ( <i>Sistemas de Comunicações Móveis e sem Fios</i> )	T		



	Project Management in Engineering ( <i>Gestão de Projectos em Engenharia</i> )	P		
2011/12	Portfolio ( <i>Portfólio</i> )	T	Mobile Communications Systems ( <i>Sistemas de Comunicações Móveis</i> )	T, P
	Intelligent Transportation Systems ( <i>Sistemas de Transportes Inteligentes</i> )	T		
	Project Management in Engineering ( <i>Gestão de Projectos em Engenharia</i> )	P		
2012/13	Portfolio ( <i>Portfólio</i> )	T	Mobile Communications Systems ( <i>Sistemas de Comunicações Móveis</i> )	T, P
	Intelligent Transportation Systems ( <i>Sistemas de Transportes Inteligentes</i> )	T		
	Project Management in Engineering ( <i>Gestão de Projectos em Engenharia</i> )	P		
2013/14	Sabbatical leave		Mobile Communications Systems ( <i>Sistemas de Comunicações Móveis</i> )	T, P
	Entrepreneurship, Innovation and Technology Transfer ( <i>Empreendedorismo, Inovação, e Transferência de Tecnologia</i> )	P	Project Management in Engineering ( <i>Gestão de Projectos em Engenharia</i> )	P
2014/15	Sabbatical leave		Mobile Communications Systems ( <i>Sistemas de Comunicações Móveis</i> )	T, P
	Entrepreneurship, Innovation and Technology Transfer ( <i>Empreendedorismo, Inovação, e Transferência de Tecnologia</i> )	P	Project Management in Engineering ( <i>Gestão de Projectos em Engenharia</i> )	P
	Project Management in Engineering ( <i>Gestão de Projectos em Engenharia</i> )	P		
2015/16	Entrepreneurship, Innovation and Technology Transfer ( <i>Empreendedorismo, Inovação, e Transferência de Tecnologia</i> )	P	Mobile Communications Systems ( <i>Sistemas de Comunicações Móveis</i> )	T, P
	Project Management in Engineering ( <i>Gestão de Projectos em Engenharia</i> )	P	Project Management in Engineering ( <i>Gestão de Projectos em Engenharia</i> )	P
2016/17	Entrepreneurship, Innovation and Technology Transfer ( <i>Empreendedorismo, Inovação, e Transferência de Tecnologia</i> )	P	Mobile Communications Systems ( <i>Sistemas de Comunicações Móveis</i> )	T, P
	Project Management in Engineering ( <i>Gestão de Projectos em Engenharia</i> )	P	Project Management in Engineering ( <i>Gestão de Projectos em Engenharia</i> )	P
2017/18	Project Management in Engineering ( <i>Gestão de Projectos em Engenharia</i> )	P	Mobile Communications Systems ( <i>Sistemas de Comunicações Móveis</i> )	T, P
			Project Management in Engineering ( <i>Gestão de Projectos em Engenharia</i> )	P
			Entrepreneurship, Innovation and Technology Transfer ( <i>Empreendedorismo, Inovação, e Transferência de Tecnologia</i> )	P
2018/19	Project Management in Engineering ( <i>Gestão de Projectos em Engenharia</i> )	P	Mobile Communications Systems ( <i>Sistemas de Comunicações Móveis</i> )	T, P

			Project Management in Engineering ( <i>Gestão de Projectos em Engenharia</i> )	P
2019/20	Project Management in Engineering ( <i>Gestão de Projectos em Engenharia</i> )	P	Mobile Communications Systems ( <i>Sistemas de Comunicações Móveis</i> )	T, P
			Project Management in Engineering ( <i>Gestão de Projectos em Engenharia</i> )	P
2020/21	Project Management in Engineering ( <i>Gestão de Projectos em Engenharia</i> )	P	Mobile Communications Systems ( <i>Sistemas de Comunicações Móveis</i> )	T, P
			Project Management in Engineering ( <i>Gestão de Projectos em Engenharia</i> )	P
2021/22	<i>Sabbatical leave</i>	P	Mobile Communications Systems ( <i>Sistemas de Comunicações Móveis</i> )	T, P
	Project Management in Engineering ( <i>Gestão de Projectos em Engenharia</i> )		Project Management in Engineering ( <i>Gestão de Projectos em Engenharia</i> )	P
2022/23	<i>Sabbatical leave</i>	T, P	Mobile Communications Systems ( <i>Sistemas de Comunicações Móveis</i> )	T, P
	Communication in Engineering ( <i>Comunicação em Engenharia</i> )		Project Management in Engineering ( <i>Gestão de Projectos em Engenharia</i> )	P
2023/24	Communication in Engineering ( <i>Comunicação em Engenharia</i> )	T, P	Mobile Communications Systems ( <i>Sistemas de Comunicações Móveis</i> )	T, P
	Engineering Practise ( <i>Prática de Engenharia</i> )		Project Management in Engineering ( <i>Gestão de Projectos em Engenharia</i> )	P

## Annex B

### ***Supervision of Theses and Grants***

One has supervised the following Post-Docs:

- SPD1 Martijn Kuipers, in the area of propagation models, in the framework of projects IST-WIP, IST-CRUISE and ICT-4WARD, Jan. 2003 / Dec. 2008.
- SPD2 Kenan Turbič, in the area of channel modelling for Body Area Networks, May 2019/Dec. 2020

One has supervised the following Ph.D. Theses:

- SPS1 Fernando J. Velez, *Aspects of Cellular Planning in Mobile Broadband Systems*, June 2001.
- SPS2 João C. Gil, *Dependencies of Adaptive Beamforming on the Propagation Channel in Wideband Mobile Communications*, May 2004.
- SPS3 Filipe Cardoso, *Short-term Fading Characterisation in Wideband Mobile Communication Systems*, June 2004.
- SPS4 António Serrador, *Joint Radio Resource Management in Heterogeneous Networks*, May 2012.
- SPS5 Rathapon Saruthirathanaworakun, *Grey-Space Spectrum Sharing with Cellular Systems and Radars, and Policy Implications*, in co-supervision with Prof. Jon M. Peha (Carnegie Mellon University, Pittsburgh, PA, USA), Dec. 2012.
- SPS6 Michal Mackowiak, *Modelling MIMO Systems in Body Area Networks in Outdoors*, July 2013.
- SPS7 Carla Oliveira, *Characterisation of On-Body Communications*, July 2013.
- SPS8 Lúcio Ferreira, *Radio Resources Management in Wireless Mesh Networks*, July 2013.
- SPS9 Luisa Caeiro, *Common Radio Resource Management in Heterogeneous Networks*, in co-supervision with Prof. Filipe Cardoso (Polytechnic Institute of Setubal, Setubal, Portugal), Sep. 2014.
- SPS10 Sina Khatibi, *Radio Resource Management Strategies in Virtual Networks*, July 2016.

- SPS11 Leslye Castro-Eras, *A Radio Propagation Model for Mixed Paths in Amazon Environments for UHF Band*, in co-supervision with Prof. Gervásio Cavalcante (Federal University of Pará, Belém, Brazil), Jan. 2019.
- SPS12 Behnam Rouzbehani, *On-demand RAN Slicing Techniques for SLA Assurance in Virtual Wireless Networks*, in co-supervision with Prof. Luísa Caeiro (Polytechnic Institute of Setubal, Setubal, Portugal), Mar. 2019.
- SPS13 Kenan Turbič, *Channel Modelling for Polarised Off-Body Communications with Dynamic Users*, in co-supervision with Prof. Marko Beko (University Lusófona, Lisbon, Portugal), May 2019.
- SPS14 Mojgan Brahman, *Efficient Software-based Base Station Design for C-RAN*, in co-supervision with Prof. Lúcio Ferreira (University Lusófona, Lisbon, Portugal), June 2021.

One has supervised the following M.Sc. Theses (pre-Bologna Agreement):

- SMS1 Judite J. Reis, *Propagation Models for Mobile Communications Systems in Urban Environments at the Millimetre Wave Band* (in Portuguese), Apr. 1996.
- SMS2 Nuno C. Gonçalves, *Propagation Models for Macro- and Micro-Cellular Urban Systems at the UHF Band* (in Portuguese), Jan. 1998.
- SMS3 Pedro V. Vasconcelos, *Characterisation of Propagation Channels for Mobile Communications Systems at 60 GHz* (in Portuguese), May 1998.
- SMS4 Ana C. Domingues, *Propagation Models for Indoor Environments for Mobile Communications Systems at the UHF Band* (in Portuguese), Mar. 1999.
- SMS5 Dragana Kristic, *Optimisation of Cellular Planning for Non-Uniform Traffic Distributions* (in Portuguese), Apr. 1999.
- SMS6 José G. Estevez, *Cellular Planning in Mobile Communications Systems Supported on Geographical Information Systems* (in Portuguese), in co-supervision with Prof. João Bento (Department of Civil Engineering, IST), May 2000.
- SMS7 M. Gabriela Marques, *A Wideband Directional Channel Model for Micro-Cells in UMTS*, May 2001.
- SMS8 António Serrador, *Optimisation of Cell Radius in UMTS-FDD Networks*, Dec. 2002.
- SMS9 Jorge Aguiar, *Traffic Analysis at the Radio Interface in Converging Mobile and Wireless Communications Systems*, Jan. 2004.
- SMS10 Cristina Reis, *An Analytical Traffic Model for the UMTS Radio Interface*, Apr. 2004.
- SMS11 Conceição Dias, *Traffic Analysis at the Radio Interface in UMTS-FDD*, June 2004.

- SMS12 Gonalo Carvalho, *Analysis of Traffic Distributions Influence on UMTS-FDD Performance*, June 2004.
- SMS13 Pedro Fernandes, *Capacity Increase in Converging Mobile Communication Systems Through the Use of MIMO*, Feb. 2005.
- SMS14 Luis Santo, *UMTS Performance in Multi-Service Non-Uniform Traffic Networks*, Mar. 2005.
- SMS15 Carlos Rodrigues, *Analysis of the Influence of Multiservice Users' Mobility on UMTS Performance*, Apr. 2005.
- SMS16 Joo Cardeiro, *Optimisation of Base Station Location in UMTS-FDD for Realistic Traffic Distributions*, Mar. 2006.
- SMS17 Carla Oliveira, *Estimation of Exclusion Zones for Base Station Antennas in Wireless Communication Systems*, in co-supervision with Prof. Carlos C. Fernandes (Department of Electrical and Computer Engineering, IST), Dec. 2006.
- SMS18 Gonalo Carpinteiro, *Performance Evaluation in All-Wireless WiFi Networks*, Apr. 2008.
- SMS19 Luis Gonalves, *Influence of Interface in UMTS Capacity for Simultaneous Operation of TDD and FDD Modes*, Apr. 2008.
- SMS20 Luis Pires, *Optimisation of UMTS-TDD Base Stations Location for Non-Uniform Traffic Distributions*, May 2008.
- SMS21 Daniel Sebasto, *Algorithms for QoS in WiFi Networks*, May 2008.
- SMS22 David Antunes, *Performance Analysis of WiMAX 802.16e Networks for Different RRM Algorithms*, May 2008.
- SMS23 Antnio Ferreira, *Exposure of Population to Electromagnetic Radiation Produced Telecommunications and Domestic Devices* (in Portuguese), in co-supervision with Dr. Jos Rocha Nogueira (Higher School for Biotechnology, Catholic University of Porto, Porto, Portugal), Dec. 2011.

One has supervised the following M.Sc. Theses (Bologna Agreement):

- SMB1 Mnica Antunes, *Impact of HSDPA Implementation on UMTS Interference and Cell Coverage* (in collaboration with Vodafone), Dec. 2007.
- SMB2 Pedro Baptista, *Impact of HSUPA Implementation on UMTS Capacity and Cell Coverage* (in collaboration with Vodafone), Dec. 2007.
- SMB3 Luis Salvado, *Comparison between UMTS/HSDPA and WiMAX/IEEE 802.16e in Mobility Scenarios* (in collaboration with Optimus), Mar. 2008.

- SMB4 João Lopes, *Performance Analysis of UMTS HSDPA/HDUPA at the Cellular Level* (in collaboration with Optimus), Mar. 2008.
- SMB5 Telmo Baptista, *Capacity Increase in UMTS/HSPA through the Use of MIMO Systems* (in collaboration with Vodafone), July 2008.
- SMB6 Armando Marques, *Modelling of Building Height Interference Dependence in UMTS* (in collaboration with Celfinet), Nov. 2008.
- SMB7 Vikash Laxmidas, *Modelling of Linear Coverage in UMTS, Applied to Tunnels and Bridges* (in collaboration with Optimus), Nov. 2008.
- SMB8 Ricardo Preguiça, *Comparison between UMTS/HSPA+ and WiMAX/IEEE 802.16e in Mobility Scenarios* (in collaboration with Vodafone), Nov. 2008.
- SMB9 Sara Duarte, *Analysis of Technologies for Long Term Evolution in UMTS* (in collaboration with Optimus), Nov. 2008.
- SMB10 Filipe Leonardo, *A Statistical 3D MIMO Radio Channel Model for UMTS* (integrated in project NEWCOM++), Nov. 2008.
- SMB11 João Araújo, *Analysis of Radio Repeaters in UMTS* (in collaboration with Celfinet), Nov. 2009.
- SMB12 Nuno Jacinto, *Performance Gains Evaluation from UMTS/HSPA+ to LTE at the Radio Network Level* (in collaboration with Vodafone), Nov. 2009.
- SMB13 Jorge Venes, *Common Radio Resource Management in Heterogeneous Networks, with UMTS, Wi-Fi and WiMAX*, Nov. 2009.
- SMB14 Gonçalo Carvalho, *Data Rate Performance Gains in UMTS Evolution at the Cellular Level* (in collaboration with Optimus), Nov. 2009.
- SMB15 João Lopes, *Performance Analysis of UMTS/HSDPA Radio Resource Management Algorithms*, Nov. 2010.
- SMB16 Carlos Lopes, *Characterisation of the Radio Channel in On-Body Communications* (in collaboration with the Military Academy), Nov. 2010.
- SMB17 Vasco Fradinho, *Advanced Performance Analysis of GSM and UMTS Radio Networks* (in collaboration with Ericsson), Oct. 2011.
- SMB18 Ricardo Batista, *Performance Evaluation of UMTS/HSPA+ Data Transmission for Indoor Coverage* (in collaboration with Vodafone), Nov. 2011.
- SMB19 Pedro Tareco, *WiMAX Capacity vs. Channel Bandwidth*, Nov. 2011.
- SMB20 João Pinto, *Assessment and Design of Multilateration Telecommunication Systems Installed in NAV* (in collaboration with NAV), Nov. 2011.

- SMB21 Pedro Carreira, *Data Rate Performance Gains in UMTS Evolution to LTE at the Cellular Level* (in collaboration with Optimus), Nov. 2011.
- SMB22 Tiago Gonçalves, *Energy Efficient Solutions Based on Beamforming for UMTS and LTE* (integrated in project EARTH), Nov. 2011.
- SMB23 Diogo Silva, *Energy Efficient Solutions in GSM/UMTS Based on Traffic Profiling models* (in collaboration with Optimus), Mar. 2012.
- SMB24 António Varanda, *Application of the EVM Methodology in Project Management* (in Portuguese), in co-supervision with Prof. José Figueiredo (Department of Engineering and Management, IST), May 2012.
- SMB25 Armanda Martins, *Evaluation of Data Applications Quality of Service over UMTS* (in collaboration with ANACOM), Nov. 2012.
- SMB26 André Pires, *Coverage and Efficiency Performance Evaluation of LTE in Urban Scenarios* (in collaboration with Vodafone), Nov. 2012.
- SMB27 Marco Antunes, *Estimation of Exclusion Regions in LTE Base Stations Co-Located with GSM/UMTS* (in collaboration with Optimus), Nov. 2012.
- SMB28 André S. Khatchik, *Accessing Business Models for Trip Planners*, in co-supervision with Prof. Maria do Rosário Macário (Department of Civil Engineering, IST), June 2013.
- SMB29 Diogo Almeida, *Inter-Cell Interference Impact on LTE Performance in Urban Scenarios* (in collaboration with Vodafone), Nov. 2013.
- SMB30 Dinis Rocha, *Analysis of the Implementation of LTE-Advanced in a Low Exposure Perspective* (integrated in project LEXNET), Nov. 2013.
- SMB31 Ricardo Santos, *Assessment of Wind Turbines Generators Influence in Aeronautical Radars* (in collaboration with NAV), Nov. 2013.
- SMB32 Joana Fernandes, *Assessment of Wind Turbines Generators Influence in Aeronautical Navigation Systems* (in collaboration with NAV), Nov. 2013.
- SMB33 Pedro Martins, *Analysis of Wireless Clouds Implementation in LTE-Advanced* (integrated in project Mobile Cloud Networks), Nov. 2013.
- SMB34 João Martins, *Impact of MIMO and Carrier Aggregation in LTE-Advanced* (in collaboration with Optimus), Nov. 2013.
- SMB35 Jaime Pereira, *Small Cell Deployment Evaluation on LTE* (in collaboration with Optimus), Nov. 2013.
- SMB36 Joana Falcão, *Inter-Cell Interferences in LTE Radio Networks* (in collaboration with Ericsson), Nov. 2013.

- SMB37 Pedro Venâncio, *Analysis of Network Quality Using Non-Intrusive Methods from an End-User Perspective in LTE* (in collaboration with Ericsson), Dec. 2014.
- SMB38 Marco Castanho, *Analysis and Optimisation of Video Transmission in LTE Networks* (in collaboration with NOS), Feb. 2015.
- SMB39 Rodrigo Santos, *Impact of FM Broadcast Signals on Aeronautical Radionavigation* (in collaboration with NAV), Feb. 2015.
- SMB40 David Doutor, *Load Balancing in Heterogeneous Networks with LTE* (integrated in project LEXNET), Feb. 2015.
- SMB41 Gonalo Fernandes, *Load Balancing via Inter-Frequency Handovers in LTE Networks* (in collaboration with Vodafone), Feb. 2015.
- SMB42 Bruno Pires, *Exclusion Regions for LTE Base Stations in Heterogeneous Cell Structures* (integrated in project LEXNET), Feb. 2015.
- SMB43 Vasco Oliveira, *Assessment of Exposure for LTE Mobile Terminals in a Heterogeneous Usage* (integrated in project LEXNET), Feb. 2015.
- SMB44 Pedro Gano, *Load Balancing in Heterogeneous Networks with LTE* (integrated in project LEXNET), Feb. 2015.
- SMB45 Miguel S, *Performance Analysis of Software Defined Networks in LTE-A* (in collaboration with Ericsson), July 2015.
- SMB46 Carlos Martins, *Analysis of Data Services Performance in UMTS Networks Using Data Analytics* (in collaboration with Vodafone), Nov. 2015.
- SMB47 Joo Pires, *LTE Fixed to Mobile Subscribers QoE Evaluation* (in collaboration with NOS), Nov. 2015.
- SMB48 Ricardo Gameiro, *Performance Comparison of Voice Communications between VoLTE and UMTS/GSM* (in collaboration with Vodafone), Nov. 2015.
- SMB49 Cludia Castro, *Optimisation of Ground Stations in Aeronautical Multilateration Systems* (in collaboration with NAV), Apr. 2016.
- SMB50 Jos Guita, *Balancing the Load in LTE Urban Networks via Inter-Frequency Handovers* (in collaboration with Vodafone), Nov. 2016.
- SMB51 Tiago Monteiro, *Implementation Analysis of Cloud Radio Access Network Architectures in Small Cells* (in collaboration with NOS), Nov. 2016.
- SMB52 Hugo Silva, *Design of C-RAN Fronthaul for Existing LTE Networks* (in collaboration with NOS), Nov. 2016.
- SMB53 Joo Pereira, *Multiple Access Strategies for Spatial Modulation* (within ERAMUS with Karlsruhe Institute of Technology, Germany), May 2017.



- SMB54 António Alcobia, *LTE Radio Network Deployment Design in Urban Environments under Different Traffic Scenarios* (in collaboration with KPMG), May 2017.
- SMB55 Ana Simões, *Temporal Modelling of Mobile Data Traffic Applications for Network Optimisation* (in collaboration with Vodafone), May 2017.
- SMB56 Tiago Costa, *Analysis of Aircraft Accuracy Location in Aeronautical Multilateration Systems* (in collaboration with NAV), June 2017.
- SMB57 Daniel Almeida, *Modelling and Forecasting Incidents in Cellular Networks* (in collaboration with NOS), Nov. 2017.
- SMB58 Diogo Martins, *Two-Tier Cellular Networks: Secondary Node MIMO Configuration, Applied to LTE-A*, (within an exchange programme with the University of Toronto, Canada), Nov. 2017.
- SMB59 Hugo Martins, *Analysis of CoMP for the Management of Interference in LTE*, (in collaboration with Vodafone), Nov. 2017.
- SMB60 João Cardoso, *Implementation of VoLTE Considering Different QoS and QoE overall Approaches* (in collaboration with NOS), Nov. 2017.
- SMB61 Miguel Ramos, *Analysis of the Use of LTE-A in Mission Critical Communications among Armoured Vehicles in Operational Scenarios* (in Portuguese) (in collaboration with the Military Academy), Nov. 2017.
- SMB62 Sónia Pedrinho, *Analysis of the use of LTE-A in Mission Critical Communications among Soldiers in Operational Scenarios* (in Portuguese) (in collaboration with the Military Academy), Nov. 2017.
- SMB63 Cristina Dias, *Extension of Communication Aeronautical Services Coverage over the Ocean via Antenna Optimisation*, (in collaboration with NAV), Dec. 2017.
- SMB64 Rute Santos, *Real-time Emulation of Vehicular Non-Stationary Channels* (within ERAMUS with Technical University of Vienna, Austria), May 2018.
- SMB65 André Ribeiro, *Analysis of Antenna's Location on Trains for Mobile Communications* (in collaboration with Thales), Oct. 2018.
- SMB66 Sara Tomás, *Application of the Lean Six Sigma (DMAIC) Methodology to ISO/IEC 17025:2005 Certified Metrology Laboratories* (in Portuguese), in co-supervision with Prof. Fernando Cruz (Department of Engineering and Management, IST) (in collaboration with ISQ), Nov. 2018.
- SMB67 Pedro Delgado, *Evaluation of Train Communications in Bridges and other Metallic Structures* (in collaboration with Thales), Nov. 2018.

- SMB68 Ismael Belchior, *Evaluation of 5G Cellular Network Implementation Over an Existing LTE One* (in collaboration with NOS), Nov. 2018.
- SMB69 Alexandre Vieira, *Analysis of 5G Cellular Radio Network Deployment over several Scenarios* (in collaboration with KPMG), Nov. 2018.
- SMB70 Anna Agamyrzyansc, *Analysis on the limits of capacity and coverage extension of ad-hoc UAVs networks* (in Portuguese) (in collaboration with the Air Force Academy), Nov. 2018.
- SMB71 Tomás Duarte, *Evaluation of Antennas Location on Trains for Mobile Communications* (in collaboration with Thales), Nov. 2019.
- SMB72 Magali Correia, *Analysis of the Influence of Pantographs in Railway Communications* (in collaboration with Thales), Nov. 2019.
- SMB73 Sérgio Domingues, *Analysis of the Performance of Multi-Access Edge Computing Network Slicing in 5G* (in collaboration with NOS), Nov. 2019.
- SMB74 Paulo Mesquita, *A Proposal for Project Management Methodology for Projects in the Public Domain in the Military Area* (in Portuguese), in co-supervision with Prof. Tânia Ramos (Department of Engineering and Management, IST) (in collaboration with the Navy), Nov. 2019.
- SMB75 Nuno Silva, *Evaluation of Train Communications Interference-Free Regions along Rail Tracks* (in collaboration with Thales), Oct. 2020.
- SMB76 Frederico Moura, *Analysis of the Impact of EMF Restrictions on 5G Base Stations Deployment in Existing Networks* (in collaboration with Huawei), Jan. 2021.
- SMB77 Sérgio Marinheiro, *Analysis of the Implementation of Network Slicing in 5G Radio Networks* (in collaboration with NOS), Jan. 2021.
- SMB78 Afonso Carvalho, *Analysis of Strategies for Minimising End-to-End Latency in 4G and 5G Networks* (in collaboration with NOS), Nov. 2021.
- SMB79 Sofia Patrício, *Influence of Active Antennas on EMF Restrictions in 5G Base Stations Deployment* (in collaboration with Huawei), Nov. 2021.
- SMB80 Beatriz Ferreira, *Coverage improvement of communication aeronautical services based in the Azores* (in Portuguese) (in collaboration with the Air Force Academy), Nov. 2021.
- SMB81 Maria Ferreira, *Deployment of 5G Radio Networks in Brownfield Scenarios* (in collaboration with NOS), July 2022.
- SMB82 Marco Failache, *Analysis of the Implementation of Private Networks in 5G Using Network Slicing* (in collaboration with NOS), July 2022.

SMB83 Ana Ramalho, *Implementation of 5G Private Networks at Portuguese Air Force* (in collaboration with the Air Force Academy), Nov. 2023.

One has supervised the following Diploma (*Licenciado*) Theses (*Trabalhos Finais de Curso*) (pre-Bologna Agreement):

- SLS1 Clara Nascimento, Jorge Teixeira and José Lopes, *Integration of Digital Cartography in Propagation Models for Mobile Communications* (in Portuguese) (in collaboration with Portuguese Army Geographic Services), Dec. 1992.
- SLS2 Paulo Francês, Miguel Morgado and Álvaro Godinho, *Project of Base Stations Antennas for STCP Communication Systems* (in Portuguese) (in collaboration with Sistel), Dec. 1992.
- SLS3 João Pires, Joaquim Almeida and João Nobre, *Analysis of Propagation Models for Mobile Communications in Urban Environments* (in Portuguese) (in collaboration with Telecel and TMN), Dec. 1993.
- SLS4 Paulo Moniz, Victor Carneiro and Paulo Monteiro, *Project and Analysis of Antennas for Mobile Communications in Vehicles* (in Portuguese) (in collaboration with Mercedes-Benz), Dec. 1993.
- SLS5 Filipe Isidoro, Paulo Cardoso and Tiago Guerra, *Adaptation of the Okumura-Hata Model to the City of Lisbon for Short Distances* (in Portuguese) (in collaboration with Telecel), Oct. 1994.
- SLS6 Francisco Gonçalves and João Romão, *Analysis of Base Station Antennas for Mobile Communications* (in Portuguese) (in collaboration with Telecel), Nov. 1994.
- SLS7 Nuno Gonçalves, Diana Caiado and Ana Domingues, *Application of the COST231 Propagation Model to the City of Lisbon* (in Portuguese) (in collaboration with Telecel), Sep. 95.
- SLS8 Luis Mata and Pedro Rocha, *Propagation Models for Mobile Communications in Indoor Environments* (in Portuguese) (in collaboration with Telecel), Sep. 1996.
- SLS9 Lívio Santos, Valentina Garcia and Lúcio Ferreira, *Optimisation of Cellular Planning for Non-Uniform Traffic Distributions in GSM* (in Portuguese) (in collaboration with Telecel), Sep. 1997.
- SLS10 Gerardo Ângelo and M. Isabel Neto, *Aspects of Penetration and Safety in Buildings with GSM Base Stations on Top* (in Portuguese) (in collaboration with Telecel), Sep. 1997.

- SLS11 Ana Alves and Carla Ribeiro, *Implementation of Propagation Models for Urban Micro-Cells in GSM* (in collaboration with Telecel), Feb. 1998.
- SLS12 Sandra Almeida and José Queijo, *Models for Spatial and Temporal Traffic Distributions in GSM* (in Portuguese) (in collaboration with Telecel), Sep. 1998.
- SLS13 Ana Claro and José Ferreira, *Comparison of Propagation Models for Urban Micro-Cells in GSM and DSC* (in Portuguese) (in collaboration with Telecel), Sep. 1998.
- SLS14 Francisco Gil and Carlos Pardelinha, *Design of Reflectors for Base Station Antennas in GSM* (in Portuguese) (in collaboration with TMN), Sep. 1998.
- SLS15 Pedro Oliveira and João Chaves, *Analysis of Propagation Models for Urban Micro-Cells in GSM 900 and 1800* (in Portuguese) (in collaboration with Telecel), May 1999.
- SLS16 Rui Estevinho and Pedro Assunção, *Evaluation of Cellular Planning Methods in GSM* (in Portuguese) (in collaboration with Telecel), Nov. 2000.
- SLS17 José Costa and Hugo Araújo, *Analysis of Mixed Voice and Data Traffic in GSM/GPRS* (in Portuguese) (in collaboration with Telecel), Nov. 2000.
- SLS18 Hugo Rebordão and Rui Espadinha, *Optimum Design of Relay Station in GSM for Indoor Environments* (in Portuguese) (in collaboration with Telecel), July 2001.
- SLS19 David Antunes and Alberto Marinho, *Cellular Planning in UMTS* (in Portuguese) (in collaboration with Telecel), Sep. 2001.
- SLS20 Henrique Ferreira and João Sarmiento, *Performance Analysis of a GSM Network at the Cellular Level* (in Portuguese) (in collaboration with TMN), Dec. 2001.
- SLS21 Patrícia Carvalho and Allen Vasconcelos, *Traffic Models for Base Stations in UMTS* (in Portuguese) (in collaboration with Vodafone), Sep. 2002.
- SLS22 David Xavier and Jorge Vernes, *Wave Penetration into Buildings in GSM and UMTS* (in Portuguese) (in collaboration with Vodafone), Sep. 2002.
- SLS23 Carla Oliveira and Gonçalo Carpinteiro, *Impact of GSM and UMTS Base Station Antennas Localisation in Human Exposure to Electromagnetic Radiation* (in Portuguese) (in collaboration with Optimus), Sep. 2002.
- SLS24 Samuel Ferreira and Paulo Amaral, *Evaluation of Propagation Models in UMTS* (in Portuguese) (in collaboration with Vodafone), Sep. 2003.
- SLS25 Filipe Faustino and Hélder Dias, *Comparison of Cellular Structures in UMTS* (in Portuguese) (in collaboration with Vodafone), Nov. 2003.
- SLS26 Alexandre Félix and João Almeida, *Models for Traffic Forecast in UMTS* (in Portuguese) (in collaboration with Optimus), Nov. 2003.

- SLS27 Daniel Sebastião and João Carneiro, *Modelling and Design of Traffic at the Radio Interface in UMTS* (in Portuguese) (in collaboration with Vodafone), Oct. 2004.
- SLS28 Francisco Villanueva, *Design of Radio Capacity in a GSM/GPRS Network* (in Portuguese) (in collaboration with Optimus), Oct. 2004.
- SLS29 Gonçalo Martins and Sofia Correia, *Comparison of Techniques for the Increase of Data Services Capacity in UMTS* (in Portuguese) (in collaboration with Optimus), Sep. 2005.
- SLS30 Hugo Esteves and Mário Pereira, *Impact of Intra- and Inter-Cellular Interferences in Capacity in UMTS* (in Portuguese) (in collaboration with Vodafone), July 2006.
- SLS31 Diana Ladeira and Pedro Costa, *Optimum UMTS Cellular Network Planning for Data Services Based on HSDPA* (in Portuguese) (in collaboration with Optimus), July 2006.

One has supervised the following Theses, under international cooperation frameworks:

- SIS1 Alfonso Nanni-Costa, *Analysis of Radiation from a Structure Made of an Antenna Installed on the Top of a Vehicle* (in French), University of Padua, Padua, Italy (ERASMUS, *Licenciado*), July 1994.
- SIS2 Andrea Lotti, *Analysis of an Airplane Structure's Influence on the Radiation Pattern of its Antenna*, University of Pisa, Pisa, Italy (ERASMUS, *Licenciado*), Oct. 1995.
- SIS3 Gaetano Scibila, *Design of Tri-Band Antennas for Mobile Communications*, ERASMUS, *Licenciado*, University of Pisa, Pisa, Italy, Oct. 1996.
- SIS4 Krzysztof Kurek, *Wideband Analysis of the Propagation Channel in a Mobile Communications System*, TEMPUS, M.Sc., Technical University of Warsaw, Warsaw, Poland, July 1997.
- SIS5 Filippo Gaggioli, *Analysis of Space Diversity in a Mobile Communications Propagation Channel*, ERASMUS, *Licenciado*, University of Pisa, Pisa, Italy, Oct. 1997.
- SIS6 Juan Ejarque, *Influence of System Parameters on the Propagation Channel of a Wideband Mobile Communications System*, Polytechnic University of Valencia, Valencia, Spain (ERASMUS, *Licenciado*), July 1998.
- SIS7 Chiara Bedini, *Cellular Planning in Urban Regular Structures with Application to Millimetre Wave Mobile Communications Systems*, University of Pisa, Pisa, Italy (ERASMUS, *Licenciado*), Sep. 1998.
- SIS8 Zbigniew Opechowski, *Analysis of Traffic Distributions in GSM*, Technical University of Warsaw, Warsaw, Poland (ERASMUS, M.Sc.), Sep. 1999.

- SIS9 Miguel Carames, *Analysis of Multiservice Traffic in UMTS FDD Mode Networks*, Polytechnic University of Valencia, Valencia, Spain (ERASMUS, *Licenciado*), May 2000.
- SIS10 Krzysztof Platek, *Algorithms for Multiservice Traffic Analysis in Mobile Broadband Systems*, Technical University of Warsaw, Warsaw, Poland (ERASMUS, M.Sc.), Oct. 2000.
- SIS11 Juan Mendez, *Adaptive Beamforming in UTRA-TDD Applying the Recursive Least Squares Algorithm*, Polytechnic University of Valencia, Valencia, Spain (ERASMUS, *Licenciado*), June 2001.
- SIS12 Silvia Taccori, *Comparison of Channel Characteristics for Converging Mobile/Wireless Communication Systems*, University of Cagliari, Cagliari, Italy (ERASMUS, *Licenciado*), July 2002.
- SIS13 Jacek Olejniczak, *Impact of the Directional Channel in Adaptive Beamforming for UMTS-FDD in Micro-Cells*, Technical University of Warsaw, Warsaw, Poland (ERASMUS, M.Sc.), Sep. 2002.
- SIS14 Tomasz Szymański, *Impact of the Directional Channel in Adaptive Beamforming for UMTS-FDD in Macro-Cells*, Technical University of Warsaw, Warsaw, Poland (ERASMUS, M.Sc.), Sep. 2002.
- SIS15 Angelino Ara, *Parameters for the Choice of Propagation and Traffic Models in UMTS*, University of Cagliari, Cagliari, Italy (ERASMUS, *Licenciado*), May 2003.
- SIS16 Maciej Odzinkowski, *Combining Adaptive Antennas at both the Base Station and the Mobile Terminal in UMTS*, Technical University of Warsaw, Warsaw, Poland (ERASMUS, M.Sc.), Oct. 2004.
- SIS17 Rafał Zubala, *Multiuser Geometrically based Channel Model*, Technical University of Warsaw, Warsaw, Poland (ERASMUS, M.Sc.), Sep. 2005.
- SIS18 Hubert Kokoszkiewicz, *MIMO Geometrically based Channel Model*, Technical University of Warsaw, Warsaw, Poland (ERASMUS, M.Sc.), Sep. 2005.
- SIS19 Piotr Furtak, *Analysis of Channel Models for Wireless Sensor Networks*, Technical University of Warsaw, Warsaw, Poland (ERASMUS, M.Sc.), Sep. 2006.
- SIS20 Michał Mackowiak, *Geometrically Based Multiple Bounce MIMO Channel Model*, Technical University of Warsaw, Warsaw, Poland (ERASMUS, M.Sc.), Sep. 2007.
- SIS21 Salvatore Messina, *Performance Evaluation of a Wireless Mesh Network in a Campus Scenario*, University of L'Aquila, L'Aquila, Italy (ERASMUS, M.Sc.), Mar. 2008.

- SIS22 Emanuele Tido, *Performance Evaluation of a Wireless Mesh Network in a Residential Scenario*, University of L'Aquila, L'Aquila, Italy (ERASMUS, M.Sc.), Mar. 2008.
- SIS23 Dominik Sarapata, *Radio Resource Management in Wireless Mesh Networks*, Technical University of Warsaw, Warsaw, Poland (ERASMUS, M.Sc.), Sep. 2010.
- SIS24 Francisco Samuel, *Design of a Mobile Communications System for Railways* (in Portuguese), ISUTC, Maputo, Mozambique, July 2011.
- SIS25 Manuel Sete, *Electric Energy Failures Alert at HCB Using Mobile Communications Networks* (in Portuguese), ISUTC, Maputo, Mozambique, July 2013.
- SIS26 Bhavies Narendra, *Study on the Deployment of LTE at Vodacom's Network in Mozambique* (in Portuguese), ISUTC, Maputo, Mozambique, July 2013.
- SIS27 Andrea Marotta, *Optimisation of Radio Access Network Cloud Architectures Deployment in LTE-Advanced*, University of L'Aquila, L'Aquila, Italy (ERASMUS, M.Sc.), July 2015.
- SIS28 Ramona Di Pompeo, *Characterisation of BAN Communications Channel in Indoor Environments in LTE-A Deployments for a Moving Body*, University of L'Aquila, L'Aquila, Italy (ERASMUS, M.Sc.), Sep. 2017.
- SIS29 Martins S. Langa, *Study on the Implementation of HAPSs for Broadband Connectivity in Mozambique's Remote Regions* (in Portuguese), ISUTC, Maputo, Mozambique, Feb. 2021.

One has supervised the following Research Grant holders:

- SGH1 Paulo Francês, in projects RACE-MBS and ITCOM, Oct. 1992 / Sep. 1996.
- SGH2 Judite Reis, in project ACTS-CABSINET, Jan. 1997 / Jan. 1998.
- SGH3 Lúcio S. Ferreira, in projects IST-ASILUM, IST-MOMENTUM, IST-FLOWS, IST-NEWCOM, IST-NEWCOM++, IST-NEWCOM#, ICT-4WARD, ICT-SAIL, ICT-MCN, Oct. 1999 / Dec. 2015.
- SGH4 M. Gabriela Marques, in project IST-ASILUM, Jan. 2001 / Mar. 2002.
- SGH5 David Xavier, in project IST-MOMENTUM, Oct. 2002 / May 2003.
- SGH6 Jorge Venes, in project IST-FLOWS, Oct. 2002 / July 2003.
- SGH7 Gonçalo Carpinteiro, in projects ITEM and MONIT, Nov. 2002 / Mar. 2006.
- SGH8 Carla Oliveira, in projects ITEM, MONIT, FAQtos, ICT-4WARD, ICT-EARTH, ICT-LEXNET, Nov. 2002 / Dec. 2015.
- SGH9 Cristina Reis, in projects ITEM e MONIT, Feb. 2004 / Sep. 2004.

- SGH10 Daniel Sebastião, in projects MONIT, FAQtos, ICT-4WARD, ICT-SAIL, ICT-LEXNET, ICT-EuConNeCts and ICT-EuConNeCts2, Oct. 2004 / Dec. 2015.
- SGH11 Diana Ladeira, in projects MONIT and ICT-eMobility, July 2006 / May 2011.
- SGH12 Mónica Antunes, in projects MONIT, FAQtos, ICT-SAIL, ICT-MCN, ICT-EuConNeCts and ICT-EuConNeCts2, Dec. 2007 / Dec. 2015.
- SGH13 João Gonçalves, in projects ICT-4WARD and ICT-SAIL, June 2009 / May 2012.



## Annex C

### ***Publications***

Work already published, or accepted for publication, is listed below, according to the following categories:

- Theses (own ones),
- International Books – Edition,
- International Books – Contributions,
- International Strategic Documents – Edition,
- International Strategic Documents – Contributions,
- International Journals Papers (with peer review),
- International Conferences Papers (with peer review),
- International Conferences Keynotes,
- International Workshops Papers (without peer review),
- National Books – Contributions,
- National Journals Papers (without peer review),
- National Conferences Papers (with peer review),
- National Conferences Keynotes,
- National Workshops Papers (without peer review).

### **Theses**

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- ICP229 Sławomir J. Ambroziak, Krzysztof K. Cwalina, Manuel M. Ferreira, Filipe D. Cardoso and Luis M. Correia, “System Loss Model for Body-to-Body Networks in Indoor and Outdoor Environments”, *Proc. of PIMRC 2023 – 34<sup>th</sup> IEEE Symposium on Personal, Indoor, Mobile and Radio Communications*, Toronto, Canada, Sep. 2023.



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### International Conference Keynotes

- ICK1 Luis M. Correia, “Radio Network Planning from GSM to MBS via UMTS: Problems and Challenges”, *Proc. of Workshop on Optimisation and Simulation in Telecommunications Networks*, Rome, Italy, May 2001.
- ICK2 Luis M. Correia, “Mobile and Wireless Communications: What’s next?”, *Proc. of Journées de Réflexion du LETI*, Grenoble, France, Mar. 2005.
- ICK3 Luis M. Correia, “Mobile and Wireless Communications: What’s next?”, *Proc. of CELTIC Event 2007*, Berlin, Germany, Feb. 2007.
- ICK4 Luis M. Correia, “eMobility: present and future challenges”, *Proc. of 1<sup>st</sup> ERCIM Workshop on eMobility*, Coimbra, Portugal, May 2007.
- ICK5 Luis M. Correia, “Mobile and Wireless Communications: Trying to see what’s next”, *Proc. of 2<sup>nd</sup> Annual Seminar of Forum Virium Helsinki and DIMES on Innovation*, Helsinki, Finland, Feb. 2008.
- ICK6 Luis M. Correia, “Challenges in Propagation and Channels in the Networks of the Future”, *Proc. of EuCAP 2010 – 4<sup>th</sup> European Conference on Antennas and Propagation*, Barcelona, Spain, Apr. 2010.
- ICK7 Luis M. Correia, “Challenges in Propagation and Channels in the Networks of the Future”, *Proc. of IWPCM 2010 – International Workshop on Propagation and Channel Modelling*, Lyon, France, Mar. 2011.
- ICK8 Luis M. Correia, “Smart Cities: Applications and Challenges”, *Proc. of Celtic-Plus Event 2011*, Heidelberg, Germany, Mar. 2011.
- ICK9 Luis M. Correia, “A Perspective of the Networks of the Future and Smart Cities”, *Proc. of Workshop ARC6 - Technologies de l’Information et de la Communication et Usages Informatiques Innovants*, Lyon, France, June 2012.
- ICK10 Luis M. Correia, “A Perspective of the Networks of the Future and Smart Cities”, *Proc. of ICETE 2012 – 9<sup>th</sup> International Conference on e-Business and Telecommunications*, Rome, Italy, July 2012.

- ICK11 Luis M. Correia, “A Perspective of the Networks of the Future and Smart Cities”, *Proc. of SENSORNETS 2013 – 2<sup>nd</sup> International Conference on Sensor Networks*, Barcelona, Spain, Feb. 2013.
- ICK12 Luis M. Correia, “A Perspective of the Networks of the Future and Smart Cities”, *Proc. of WAWC 2013 – 4<sup>th</sup> Workshop on Advances in Wireless Communications*, Chengdu and Nanjing, China, June 2013.
- ICK13 Luis M. Correia, “A Perspective of the Networks of the Future and Smart Cities”, *Proc. of CSP 2014 - Communication and Signal Processing, at SSD 2014 – 11<sup>th</sup> IEEE International Multi-Conference on Systems, Signals and Devices*, Barcelona, Spain, Feb. 2014.
- ICK14 Luis M. Correia, “A Perspective of the Networks of the Future and their Application to Smart Cities”, *Proc. of WMNC 2014 – 7<sup>th</sup> IFIP Wireless and Mobile Networking Conference*, Vilamoura, Portugal, May 2014.
- ICK15 Luis M. Correia, “A Perspective of the Networks of the Future and Smart Cities”, *Proc. of WMCS 2014 - 2nd International Conference on Wireless and Mobile Communication Systems*, Lisbon, Portugal, Oct. 2014.
- ICK16 Luis M. Correia, “A Perspective of the Networks of the Future and Smart Cities”, *Proc. of WiCON 2014 – 8<sup>th</sup> International Wireless Internet Conference*, Lisbon, Portugal, Nov. 2014.
- ICK17 Luis M. Correia, “A Perspective of the Networks of the Future and their Application to Smart Cities”, *Proc. of IMTIC 2015 – International Multi Topic Conference*, Jamshoro, Pakistan, Feb. 2015.
- ICK18 Luis M. Correia, “Body Area Networks: Applications and Channel Models”, *Proc. of Internal Seminars of the Graz University of Technology*, Graz, Austria, Sep. 2015.
- ICK19 Luis M. Correia, “A Perspective on Virtual Radio Access Networks”, *Proc. of Internal Seminars of the Technical University of Brno*, Brno, Czech Republic, Oct. 2015.
- ICK20 Luis M. Correia, “A Perspective on Cloud and Virtual Radio Access Networks for 5G”, *Proc. of 5G Summit*, Moscow, Russia, June 2017.
- ICK21 Luis M. Correia, “A Perspective on Cloud and Virtual Radio Access Networks for 5G”, *Proc. of KKRRiT 2017 - National Conference on Radiocommunication, Broadcasting and Television*, Poznan, Poland, June 2017.
- ICK22 Luis M. Correia, “An Approach to Cloud and Virtual Radio Access Networks”, *Proc. of SBrT 2018 - XXXVI Simpósio Brasileiro de Telecomunicações e Processamento de Sinais*, Campina Grande, PB, Brazil, Sep. 2018.

- ICK23 Luis M. Correia, “An Approach to Cloud and Virtual Radio Access Networks”, *Proc. of Internal Seminars of the Technical University of Brno*, Brno, Czech Republic, Sep. 2019.
- ICK24 Luis M. Correia, “Bridging 5G to 6G Networks: Problems and Challenges”, *Proc. of DCCN 2021 - 24<sup>th</sup> International Conference on Distributed Computer and Communication Networks: Control, Computation, Communications*, Moscow, Russia, Sep. 2021.
- ICK25 Luis M. Correia, “Body Area Networks: from Applications to Radio Channel Models”, *Proc. of ENCOM 2021 - XI Conferência Nacional em Comunicações, Redes e Segurança da Informação*, Campina Grande, PB, Brazil, Oct. 2021.

### International Workshops Papers

- IWP1 Leandro Fernandes and Luis M. Correia, “Project RACE - MBS (Mobile Broadband Systems)”, *Proc. of Joint COST 227/231 Workshop*, Limerick, Ireland, Sep. 1993 (invited).
- IWP2 Luis M. Correia and Geir Løvnes, “Outdoor Propagation Modelling and Measurements in COST 231 at the Millimetre Waveband”, *Proc. of Joint COST 231/235 Workshop*, Prague, Check Rep., Apr. 1994 (invited).
- IWP3 Luis M. Correia and Paulo O. Francês, “Estimation of Materials Characteristics from Power Measurements at 60 GHz”, *Proc. of RACE Mobile Telecommunications Workshop*, Amsterdam, The Netherlands, May 1994.
- IWP4 Luis M. Correia and Paulo O. Francês, “The MBS Path Loss Model for Outdoor Scenarios”, *Proc. of RACE Mobile Telecommunications Workshop*, Amsterdam, The Netherlands, May 1994.
- IWP5 Luis M. Correia and Geir Løvnes, “Outdoor Propagation for Mobile Broadband Systems”, *Proc. of Workshop on Short Range Radio Communications at the 24<sup>th</sup> European Microwave Conference*, Cannes, France, Sep. 1994 (invited).
- IWP6 Luis M. Correia, “Broadband Communications - COST 231 Working Group 3 Activities”, *Proc. of Future Trends in Mobility - COST 231 Final Workshop*, Turin, Italy, Apr. 1996 (invited).
- IWP7 Luis M. Correia, “Wireless Broadband Communications at the Millimetre Waveband: Differences and Similarities between WLANs and MBSs”, *Proc. of Colloquium on Indoor Communications*, Delft, The Netherlands, Oct. 1997 (invited).

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- NCK11 Luis M. Correia, “Smart Cities: Application of Information and Communication Technologies to Municipalities” (in Portuguese), *Proc. of IX Ciclo de Conferências Ambiente e Qualidade Vida - Sistemas Inteligentes*, Torres Vedras, Portugal, May 2013.
- NCK12 Luis M. Correia, “Mobile Phones: Myths and Facts” (in Portuguese), *Proc. of Seminários Internos da PT Comunicações*, Lisbon, Portugal, Dec. 2013.
- NCK13 Luis M. Correia, “The Evolution of Mobile Communications and the Internet of Things”, *Proc. of Jornadas Técnicas de Engenharia Eletrotécnica do I.P. Leiria*, Leiria, Portugal, May 2014.
- NCK14 Luis M. Correia, “A Perspective on Virtual Radio Access Networks”, *Proc. of 1st FEUP Doctoral Congress in Engineering*, Porto, Portugal, June 2015.
- NCK15 Luis M. Correia, “IoT and Telecoms” (in Portuguese), *Proc. of 20<sup>th</sup> ACIST Encontro Nacional das PMEs do Setor das Telecomunicações*, Lisbon, Portugal, Oct. 2016.
- NCK16 Luis M. Correia, “5G: from Technology to Applications”, *Proc. of 31<sup>st</sup> RTCM Meeting*, Porto, Portugal, Feb. 2022 (virtual).
- NCK17 Luis M. Correia, “Understanding 5G” (in Portuguese), *Proc. of NOS Workshop on 5G Applications*, Funchal, Portugal, Mar. 2022.

- NCK18 Luis M. Correia, “Industrial and Professional Applications of 5G” (in Portuguese), *Proc. of APDC Webinars on 5G*, Lisbon, Portugal, Apr. 2022 (virtual).
- NCK19 Luis M. Correia, “Emergency and Security Communications: from the Present to the Future” (in Portuguese), *Proc. of SIRESP Tech Days*, Lisbon, Portugal, June 2022.
- NCK20 Luis M. Correia, “Emergency and Security Networks: Communication, Empowerment and Training” (in Portuguese), *Proc. of SIRESP Bootcamp*, Ponta Delgada, Portugal, Oct. 2022.
- NCK21 Luis M. Correia, “5G: Influence of Technology in Exposure to ElectroMagnetic Fields” (in Portuguese), *Proc. of Seminars of Portuguese URSI Committee*, Lisboa, Portugal, Oct. 2022.
- NCK22 Luis M. Correia, “5G: Opportunities and Challenges for (all) Businesses” (in Portuguese), *Proc. of 26<sup>th</sup> ACIST Encontro Nacional das PMEs do Setor das Telecomunicações*, Lisbon, Portugal, Nov. 2022.

### **National Workshops Papers**

- NWP1 Luis M. Correia, “Mutual Influence between the Cellular Phone and the Human Head” (in Portuguese), *Proc. of 3<sup>o</sup> Congresso Ibero-Americano de Medicina no Trabalho*, Lisbon, Portugal, Oct. 1995 (invited).
- NWP2 Luis M. Correia, “Mutual Influence between the Cellular Phone and the Human Head” (in Portuguese), *Proc. of III Jornadas Portuguesas de Protecção contra Radiações*, Coimbra, Portugal, Mar. 1996 (invited).
- NWP3 Fernando J. Velez e Luis M. Correia, “Cost/Revenue Optimisation in Multi-Service Mobile Broadband Systems”, *Proc. of Engenharia 2001 – Jornadas da Universidade da Beira Interior*, Covilhã, Portugal, Nov. 2001.
- NWP4 Luis M. Correia, “Exposure to Radiation from Base Station Antennas for Mobile Phones” (in Portuguese), *Proc. of VIII Jornadas de Protecção contra Radiações*, Lisbon, Portugal, Nov. 2001 (invited).
- NWP5 Luis M. Correia, “An Engineering Perspective on Radiation Exposure in Mobile Communications”, *Proc. of Seminário da Ordem dos Engenheiros sobre Human Exposure to Electromagnetic Radiation in Mobile Communications: Facts or Fantasies?*, Lisbon, Portugal, Dec. 2001 (invited).
- NWP6 Fernando J. Velez e Luis M. Correia, “Cost/Revenue Optimisation in Broadband Mobile Communications Systems in Urban Environments” (in Portuguese), *Proc. of*



- Conferência Científica e Tecnológica em Engenharia do ISEL*, Lisbon, Portugal, May 2002.
- NWP7 Luis M. Correia, “A Perspective on UMTS: Past and Future” (in Portuguese), *Proc. of XIV Congresso da Ordem dos Engenheiros*, Coimbra, Portugal, June 2002 (invited).
- NWP8 Luis M. Correia, “New Technologies and their Application to Emergency” (in Portuguese), *Proc. of Seminário sobre Comunicações em Serviços de Emergência*, Estoril, Portugal, Oct. 2002 (invited).
- NWP9 Carla Oliveira, Gonçalo Carpinteiro e Luis M. Correia, “Exposure to Radiation from GSM and UMTS Base Station Antennas” (in Portuguese), *Proc. of IX Jornadas de Protecção contra Radiações*, Lisbon, Portugal, Nov. 2002 (invited).
- NWP10 Luis M. Correia, “Brief Technical Description on Electronic Surveillance” (in Portuguese), *Proc. of Jornadas de Avaliação sobre Vigilância Electrónica*, Lisbon, Portugal, Mar. 2003 (invited).
- NWP11 Carla Oliveira, Gonçalo Carpinteiro, Luis M. Correia, Carlos F. Fernandes, Afonso Serralha, e Nuno Marques, “ITEM Project - Technical Information on Exposure to Electromagnetic Radiation in Mobile Communications” (in Portuguese), *Proc. of X Jornadas de Protecção contra Radiações*, Lisbon, Portugal, Nov. 2003.
- NWP12 Luis M. Correia, Carlos F. Fernandes, Carla Oliveira, Gonçalo Carpinteiro, Cristina Reis, Lúcio Ferreira, Afonso Serralha, e Nuno Marques, “ITEM Project - Technical Information on Exposure to Electromagnetic Radiation in Mobile Communications” (in Portuguese), *Proc. of Jornadas de Engenharia da ESTG/IPP*, Portalegre, Portugal, Mar. 2004 (invited).
- NWP13 Luis M. Correia, Carlos F. Fernandes, Carla Oliveira, Gonçalo Carpinteiro, Cristina Reis, Lúcio Ferreira, Afonso Serralha, e Nuno Marques, “ITEM Project - Risk Communication on Exposure to Radiation in Mobile Communications” (in Portuguese), *Proc. of VIII Jornadas Científico-Tecnológicas da EST/IPS*, Setúbal, Portugal, Apr. 2004 (invited).
- NWP14 Luis M. Correia, Carlos F. Fernandes, Carla Oliveira, Gonçalo Carpinteiro, Cristina Reis, Lúcio Ferreira, Afonso Serralha, e Nuno Marques, “monIT Project- Risk Communication on Exposure to Radiation in Mobile Communications” (in Portuguese), *Proc. of Networkers Forum*, Lisbon, Portugal, Oct. 2004 (invited).

- NWP15 Luis M. Correia, “Exposure to Radiation: Basic Concepts and monIT Project” (in Portuguese), *Proc. of Seminários da ESTG*, ESTG/IPL, Leiria, Portugal, Nov. 2004 (invited).
- NWP16 Luis M. Correia, Carlos F. Fernandes, Carla Oliveira, Gonçalo Carpinteiro, Cristina Reis, Lúcio Ferreira, Afonso Serralha, e Nuno Marques, “The monIT Project – Electromagnetic Radiation Monitoring in Mobile Communications”, *Proc. of Seminário DGS sobre Gestão do Risco Associado aos Campos Electromagnéticos*, Lisbon, Portugal, Nov. 2004 (invited).
- NWP17 Luis M. Correia, “Mobile Phones: Myths and Facts” (in Portuguese), *Proc. of 8º Forum Nacional de Medicina no Trabalho*, SPMT, Lisbon, Portugal, Sep. 2005 (invited).
- NWP18 Carla Oliveira, Daniel Sebastião, Gonçalo Carpinteiro, Luis M. Correia, Carlos F. Fernandes, Afonso Serralha e Nuno Marques, “monIT Project - Monitoring of Electromagnetic Radiation in Mobile Communications” (in Portuguese), *Proc. of JETC'05 - Terceiras Jornadas de Engenharia de Electrónica e Telecomunicações e de Computadores do ISEL*, Lisbon, Portugal, Nov. 2005.
- NWP19 Carla Oliveira, Gonçalo Carpinteiro, Luis M. Correia, Carlos F. Fernandes, Afonso Serralha, e Nuno Marques, “monIT Project: Results of Electromagnetic Fields Monitoring in Portugal” (in Portuguese), *Proc. of XI Jornadas de Protecção contra Radiações*, Lisbon, Portugal, Nov. 2005.
- NWP20 Luis M. Correia, “Exposure to Electromagnetic Radiation: Application to Mobile Phones” (in Portuguese), *Proc. of Seminários da Ordem dos Engenheiros*, Lisbon, Portugal, July 2006 (invited).
- NWP21 Luis M. Correia, “Monitoring of Electromagnetic Radiation in Mobile Communications” (in Portuguese), *Proc. of 16º Congresso das Comunicações*, Lisbon, Portugal, Nov. 2006.
- NWP22 Carla Oliveira, Diana Ladeira, Daniel Sebastião, Luis M. Correia e Carlos F. Fernandes, “Monitoring of Electromagnetic Fields in Portuguese Schools and Hospitals by the monIT Project” (in Portuguese), *Proc. of XII Jornadas de Protecção contra Radiações*, Lisbon, Portugal, Nov. 2006.
- NWP23 Carla Oliveira, Diana Ladeira, Daniel Sebastião e Luis M. Correia, “Updated Results from the Electromagnetic Fields Monitoring Programme of the monIT Project” (in Portuguese), *Proc. of XIII Jornadas de Protecção contra Radiações*, Lisbon, Portugal, Nov. 2007.

- NWP24 Carla Oliveira, Carlos C. Fernandes and Luis M. Correia, “Estimation of Exclusion Zones for Base Station Antennas in Wireless Communications Systems” (in Portuguese), *Proc. of 1º Congresso do Comité Português da URSI*, Lisbon, Portugal, Nov. 2007.
- NWP25 Carla Oliveira, Daniel Sebastião, Diana Ladeira and Luis M. Correia, “Updated Results from the Electromagnetic Fields Monitoring Programme of the monIT Project” (in Portuguese), *Proc. of 1º Congresso do Comité Português da URSI*, Lisbon, Portugal, Nov. 2007.
- NWP26 Luis M. Correia, “The monIT Project: Conclusions from 5 Years Activity” (in Portuguese), *Proc. of 17º Congresso das Comunicações*, Lisbon, Portugal, Dec. 2007.
- NWP27 Luis M. Correia, “Electromagnetic Radiation in Mobile Communications” (in Portuguese), *Proc. of Seminário da Ordem dos Engenheiros sobre “Perspectivas sobre as Radiações Electromagnéticas”*, Lisbon, Portugal, Sep. 2008 (invited).
- NWP28 António Serrador, Martijn Kuipers and Luis M. Correia, “MIMO Capacity Influence on JRRM Performance”, *Proc. of JETC 2008 – IV Jornadas de Engenharia de Electrónica e Telecomunicações e de Computadores do ISEL*, Lisbon, Portugal, Nov. 2008.
- NWP29 Luis M. Correia, “AROMA - Advanced Resource Management Solutions for Future All IP Heterogeneous Mobile Radio Environments”, *Proc. of 2º Congresso do Comité Português da URSI*, Lisbon, Portugal, Nov. 2008.
- NWP30 Carla Oliveira, Daniel Sebastião, Diana Ladeira, Gonçalo Carpinteiro, Mónica Antunes, Luis M. Correia and Carlos Fernandes, “Study on Electromagnetic Fields emitted by Fluorescent and Compact Fluorescent Lamps” (in Portuguese), *Proc. of I Congresso Português de Protecção contra Radiações*, Lisbon, Portugal, Nov. 2008.
- NWP31 Daniel Sebastião, Diana Ladeira, Mónica Antunes and Luis M. Correia, “Influence of Temporal and Spatial Sampling Parameters on Electromagnetic Field Measurements” (in Portuguese), *Proc. of I Congresso Português de Protecção contra Radiações*, Lisbon, Portugal, Nov. 2008.
- NWP32 Daniel Sebastião, Diana Ladeira, Mónica Antunes, Carla Oliveira and Luis M. Correia, “Sources of Electromagnetic Fields in Radiofrequencies” (in Portuguese), *Proc. of Primeiro Congresso de Protecção Contra Radiações de Países e Comunidades de Língua Portuguesa*, Lisbon, Portugal, Nov. 2009.

- NWP33 Luis M. Correia, “The Way 4WARD to the Creation of a Future Internet” (in Portuguese), *Proc. of Forum para a Sociedade da Informação – Internet do Futuro*, Lisbon, Portugal, May 2010 (invited).
- NWP34 Luis M. Correia, “A Vision into the Future Internet”, *Proc. of Workshop de Tecnologia e Informação sobre Internet do Futuro*, Aveiro, Portugal, May 2010 (invited).
- NWP35 Daniel Sebastião, Diana Ladeira, Mónica Antunes, Carla Oliveira and Luis M. Correia, “Estimation of Base Stations Exclusion Zones”, *Proc. of 4º Congresso do Comité Português da URSI*, Lisbon, Portugal, Sep. 2010.
- NWP36 Luis M. Correia, “Future Telecommunications Networks and their Applications”, *Proc. of Workshop do Ministério da Defesa sobre Software Defined Radio*, Lisbon, Portugal, Apr. 2011 (invited).
- NWP37 Carla Oliveira, Daniel Sebastião, Diana Ladeira, Gonçalo Carpinteiro, Mónica Branco and Luis M. Correia, “Measurement Procedures in Hospital Environments” (in Portuguese), *Proc. of 5º Congresso do Comité Português da URSI*, Lisbon, Portugal, Nov. 2011.
- NWP38 Luis M. Correia, “ICT for ITS”, *Proc. of Workshop Ecossistemas dos Transportes*, Lisbon, Portugal, Dec. 2011 (invited).
- NWP39 Luis M. Correia, “A View into the Participation in EC Framework R&D Projects”, *Proc. of Workshop Digital Agenda for Europe – Going Local*, Lisbon, Portugal, Dec. 2011 (invited).
- NWP40 Luis M. Correia, “Application of Information and Communication Technologies to Municipalities” (in Portuguese), *Proc. of 8ª Urbaverde – Cidades do Futuro*, Porto, Portugal, Apr. 2012 (invited).
- NWP41 Luis M. Correia, “A Perspective of the Networks of the Future and Smart Cities”, *Proc. of Seminários do IPL*, Leiria, Portugal, May 2012 (invited).
- NWP42 Luis M. Correia, “Information and Communication Technologies in Intelligent Transportation Systems” (in Portuguese), *Proc. of Seminário da Ordem dos Engenheiros sobre Sistemas e Tecnologias Inteligentes de Transportes*, Lisbon, Portugal, Oct. 2012 (invited).
- NWP43 Carla Oliveira, Daniel Sebastião, Mónica Branco and Luis M. Correia, “Updated Electromagnetic Field Measurement Results Performed by the monIT Project” (in

- Portuguese), *Proc. of 6º Congresso do Comité Português da URSI*, Lisbon, Portugal, Nov. 2012.
- NWP44 Daniel Sebastião, Mónica Antunes, Carla Oliveira and Luis M. Correia, “Characterisation of the use of mobile phones by youngsters in Portugal” (in Portuguese), *Proc. of Terceiro Congresso de Protecção Contra Radiações de Países e Comunidades de Língua Portuguesa*, Lisbon, Portugal, Nov. 2012.
- NWP45 Luis M. Correia, “A Perspective of the Internet of Things within Mobile Communications in Smart Cities”, *Proc. of Vodafone Technology Watch Workshop*, Lisbon, Portugal, Jan. 2013 (invited).
- NWP46 Luis M. Correia, “Cybersecurity: from technology to economy” (in Portuguese), *Proc. of Workshop ANACOM sobre Cibersegurança: Aspetos Aconómicos*, Lisbon, Portugal, Sep. 2013 (invited).
- NWP47 Luis M. Correia, “Smart Cities: from Telecommunications to Applications”, *Proc. of Workshop NOVABASE TechWeek*, Lisbon, Portugal, Oct. 2013 (invited).
- NWP48 Diogo X. Almeida, Luis M. Correia and Marco Serrazina, “Inter-Cell Interference Impact on LTE Performance in Urban Scenarios”, *Proc. of 7º Congresso do Comité Português da URSI*, Lisbon, Portugal, Nov. 2013.
- NWP49 Ricardo M. Santos, Luis M. Correia, Carlos Alves, Luis Pissarro and Álvaro Albino, “Assessment of Wind Turbines Generators influence in Aeronautical Radars”, *Proc. of 7º Congresso do Comité Português da URSI*, Lisbon, Portugal, Nov. 2013.
- NWP50 Joana A. Fernandes, Luis M. Correia, Carlos Alves, Luis Pissarro and Márcio Teixeira, “Assessment of Wind Turbines Generators Influence in Aeronautical Navigation Systems”, *Proc. of 7º Congresso do Comité Português da URSI*, Lisbon, Portugal, Nov. 2013.
- NWP51 Dinis Rocha, Luis M. Correia and Carla Oliveira, “Analysis of the Implementation of LTE Advanced in a Low Exposure Perspective”, *Proc. of 7º Congresso do Comité Português da URSI*, Lisbon, Portugal, Nov. 2013.
- NWP52 Carla Oliveira, Michal Mackowiak and Luis M. Correia, “MIMO Models for Smart On- and Off-Body Communications”, *Proc. of 7º Congresso do Comité Português da URSI*, Lisbon, Portugal, Nov. 2013.
- NWP53 Luis M. Correia, “Electromagnetic Radiation Monitoring” (in Portuguese), *Proc. of Seminário 20 Anos de Ambiente na Defesa Nacional*, Lisbon, Portugal, Dec. 2013 (invited).

- NWP54 Luis M. Correia, “Modelling Problems in ICT for ITS”, *Proc. of Workshop on Transportation Modelling Future*, Lisbon, Portugal, July 2014 (invited).
- NWP55 Carla Oliveira, Daniel Sebastião, Mónica Branco and Luis M. Correia, “Facts on the Usage and (Non)Concern of Portuguese Youngsters of Mobile Phones” (in Portuguese), *Proc. of 8º Congresso do Comité Português da URSI*, Lisbon, Portugal, Nov. 2014.
- NWP56 Lúcio Ferreira, Navid Nikaein, Eryk Shiller, Desislava Dimitrova, Islam Alyafawi, Sina Khatibi, Luis M. Correia, Dominique Pichon, Alexander Georgiev and André Gomes, “RAN-as-a-Service”, *Proc. of Workshop on Innovation in the Cloud*, Lisbon, Portugal, Jan. 2015.
- NWP57 Manuel Ferreira, Carla Oliveira, Filipe Cardoso and Luis M. Correia, "SAR from Google Glasses" (in Portuguese), *Proc. of V Congresso de Proteção Contra Radiações da Comunidade dos Países de Língua Portuguesa*, Coimbra, Portugal, Mar. 2016.
- NWP58 Luis M. Correia, “How to improve Universities participation in H2020 (an Engineering personal perspective)”, *Proc. of FEUP’s Workshop on H2020 Framework, Impact for European Universities*, Porto, Portugal, Dec. 2016 (invited).
- NWP59 Luis M. Correia, “IST’s Experience in H2020 (an Engineering perspective)” (in Portuguese), *Proc. of Seminário FCT Participação de Portugal no H2020 e Perspectivas para o 9º PQ*, Lisbon, Portugal, Feb. 2017 (invited).
- NWP60 Luis M. Correia, “A Perspective on Cloud and Virtual Radio Access Networks for 5G”, *Proc. of 5G & IoT Seminar*, Lisbon, Portugal, Mar. 2017.
- NWP61 Luis M. Correia, “5G Services and Use Cases”, *Proc. of 5G Mobile Network Testing Seminar*, Lisbon, Portugal, Jun. 2019.
- NWP62 Luis M. Correia, “Bridging 5G’s Technology with Private Networks and Industry 4.0”, *Proc. of Seminar on Smart Factories, Industry 4.0 and 5G Private Networks*, Lisbon, Portugal, May 2021 (on-line).
- NWP63 Luis M. Correia, “Technological Aspects of 5G”, *Proc. of SPPCR Seminars*, Lisbon, Portugal, July 2021 (on-line).
- NWP64 Luis M. Correia, “Exposure to ElectroMagnetic Fields in 5G”, *Proc. of 15º Congresso do Comité Português da URSI*, Leiria, Portugal, Nov. 2021 (invited).
- NWP65 Luis M. Correia, “(Future?) Technologies for Digital Transition”, *Proc. of Ordem dos Engenheiros Workshop on "From Bits to Bricks: Engineering in Digital Transition"*, Lisboa, Portugal, Nov. 2022 (invited).

## Annex D

### *Participation in R&D Projects*

In what follows, participation in R&D projects is listed, identifying the role at both the IST and project levels, besides the work developed in them.

Date	Acronym	Name	Funding source	Project role	Role at IST	Contribution	Funding [k €]
1988 / 1992	-	Project and Set-up of a Near Field System for Antenna Measurement	JNICT (Portugal)	-	-	Design of reference antennas and installation of field transformation programs.	
Apr. 1992 / Apr. 1996	COST 231	Evolution of Land Mobile Radio (Including Personal) Communications	COST (EC)	Nacional Representative	-	Development of propagation models for outdoor environments, at both UHF and mm wave bands.	
Sep. 1992 / Dec. 1995	MBS	Mobile Broadband Systems	RACE (EC)	WP Leader	Financial Manager, WP Leader	Leadership of WPs on Cellular Coverage and Propagation Aspects, at both the project and IST levels. Development of propagation models for outdoor environments, at the mm wave band, for the calculation of coverage and interference, and characterisation of the radio channel.	

Participation in R&D Projects

Date	Acronym	Name	Funding source	Project role	Role at IST	Contribution	Funding [k €]
Oct. 1995 / Oct. 1999	ITCOM	Integration of Technologies for Mobile Communications.	JNICT (Portugal)	WP Leader	WP Leader	Leadership of WP on Propagation Models. Development of propagation models for outdoor environments, at the 2 GHz band.	
Jan. 1996 / Jan. 1999	MODPROP	Propagation Models for Mobile Communications in Urban Micro-Cells	JNICT (Portugal)	Project Leader	Project Leader	Development of propagation models for urban environments, at the 900 MHz and 1 800 MHz bands, aiming at coverage of streets by micro-cells and indoor penetration.	
Jan. 1996 / July 1997	ICP	A Radio Communications Viability Study	ICP (Portugal)	WP Leader	WP Leader	Leadership of WP on Propagation Models. Coverage studies in UHF, accounting for antennas' radiation patterns influenced by supporting masts.	
July 1996 / Dec. 1999	SAMBA	System for Advanced Mobile Broadband Applications	ACTS (EC)	-	WP Leader	Leadership of WP on Cellular Planning and Traffic Modelling. Development of propagation and channel models. Development of algorithms for cellular planning and of models for multi-service traffic.	
Nov. 1996 / June 1997	COVER	Radio Coverage in Aeronautical Communications	ANA (Portugal)	Project Leader	Project Leader	Development of new solutions for the terrestrial stations antennas and of coverage studies at the VHF band.	
Jan. 1997 / May 1998	CABSINET	Cellular Access to Broadband Services and Interactive Television	ACTS (EC)	-	Project Leader	Propagation channel characterisation, from narrow- and wideband perspectives, at 6 GHz.	



Participation in R&D Projects

Date	Acronym	Name	Funding source	Project role	Role at IST	Contribution	Funding [k €]
Apr. 1997 / Apr. 2000	COST 259	Flexible Wireless Personalised Communications	COST (EC)	Chairman, Nacional Representative	Project Leader	Development of propagation models for outdoor environments, at both mm waves and UHF, of traffic models for various services and of algorithms for cellular planning optimisation.	
Jan. 1998 / July 1998	SIGREQ	Signal Requirements for 2 W Mobile Phones	Telecel (Portugal)	Project Leader	Project Leader	Signal penetration measurements into buildings, aiming at a specific classification for Portugal and development of statistical models for penetration attenuation.	
Jan. 2000 / Dec. 2001	ASILUM	Advanced Signal Processing Schemes for Link Capacity Increase in UMTS	IST (EC)	-	Project Leader	Characterisation of the wideband directional propagation channel and development of models for adaptive antennas, at the 2 GHz band, for UMTS.	
May 2001 / Apr. 2005	COST 273	Towards Mobile Broadband Multimedia Communications	COST (EC)	Chairman, Nacional Representative	Project Leader	Development of wideband directional propagation channel models, of traffic models for multi-services scenarios and of algorithms for cellular planning optimisation.	
Oct 2001 / Sep. 2006	COST 281	Potential Health Implications from Mobile Communication Systems	COST (EC)	Nacional Representative	Project Leader	Development of models for the measurement of electromagnetic fields, relative to a base station.	
Aug. 2001 / July 2003	MOMENTUM	Models and Simulations for Network Planning and Control of UMTS	IST (EC)	WP Leader	Project Leader	Leadership of WP on Traffic Estimation & Service Characterisation. Characterisation of services, development of traffic models for multi-services scenarios and establishment of propagation models for specific scenarios.	

Participation in R&D Projects

Date	Acronym	Name	Funding source	Project role	Role at IST	Contribution	Funding [k €]
Jan. 2002 / June 2004	FLAWS	Flexible Convergence of Wireless Systems	IST (EC)	WP Leader	Project Leader	Leadership of WP on Services Characterisation. Characterisation of services and establishment of channel models for specific services.	
Sep. 2002 / Feb. 2004	ANWIRE	Academic Network for Wireless Internet Research in Europe	IST (EC)	-	Project Leader	Characterisation of services and establishment of traffic models for specific services.	
Nov. 2002 / Apr. 2004	ITEM	Technical Information on Electromagnetic Radiation from Mobile Communications	Vodafone (Portugal)	Project Leader	Project Leader	Development of a website with information for the general population on exposure to electromagnetic radiation from mobile communications and measurements campaigns on electromagnetic fields.	
Mar. 2004 / Feb. 2006	NEWCOM	Network of Excellence in Wireless Communications	IST (EC)	-	Project Leader	Development of propagation channel models and of traffic models for multi-services scenarios.	
May 2004 / Oct. 2012	MONIT	Monitoring of Electromagnetic Radiation	Optimus, TMN, Vodafone (Portugal)	Project Leader	Project Leader	Development of a website with information for the general population on exposure to electromagnetic radiation from mobile communications, measurements campaigns on electromagnetic fields and establishment of the MonIT Prize for high school pupils.	
Apr. 2005 / Dec. 2005	OPTPROP	Characterisation of signal penetration into buildings for GSM900, GSM1800 and UMTS-FDD	Optimus (Portugal)	Project Leader	Project Leader	Signal penetration measurements into buildings, aiming at a specific classification for Portugal, according to construction types and development of statistical models for penetration attenuation.	

Participation in R&D Projects

Date	Acronym	Name	Funding source	Project role	Role at IST	Contribution	Funding [k €]
Jan. 2006 / Dec. 2007	AROMA	Advanced Resource Management Solutions for Future all IP Heterogeneous Mobile Radio Environments	IST (EC)	-	Project Leader	Characterisation of scenarios, development of algorithms for common radio resource management and establishment of channel models.	
Jan. 2006 / Dec. 2007	CRUISE	Creating Ubiquitous Intelligent Sensing Environments	IST (EC)	-	Project Leader	Characterisation of scenarios, analysis of mobility impact on system performance and establishment of channel models.	
Jan. 2006 / Dec. 2008	WIP	An All-Wireless Mobile Network Architecture	IST (EC)	-	Project Leader	Characterisation of scenarios, analysis of mobility impact on system performance and establishment of channel and traffic models.	
Dec 2006 / Nov. 2010	COST 2100	Pervasive Mobile & Ambient Wireless Communications	COST (EC)	Nacional Representative	Project Leader	Development of MIMO channel models and of algorithms for heterogeneous networks optimisation.	
Jan. 2008 / June 2010	4WARD	Architecture and Design for the Future Internet	ICT (EC)	WP Leader	Project Leader	Co-Leadership of WP on Business Innovation, Regulation and Dissemination. Characterisation of scenarios, establishment of models for the management of radio resources and parametrisation of performance in heterogeneous networks.	
Jan. 2008 / June 2010	eMobility-CA	eMobility – Coordination Action	ICT (EC)	WP Leader	Project Leader	Leadership of WP on Strategic Applications Agenda. Development of Strategic Agendas for R&D and applications for the Future Internet. Establishment of the Future Internet Forum.	

Participation in R&D Projects

Date	Acronym	Name	Funding source	Project role	Role at IST	Contribution	Funding [k €]
Jan. 2008 / Apr. 2011	NEWCOM++	Network of Excellence in Wireless Communications	ICT (EC)	WP Leader	Project Leader	Leadership of WP on Integration. Development of channel models for MIMO and Body Area Networks and of algorithms for radio resource management in heterogeneous networks.	
May 2008 / Apr. 2012	COST BM0704	Emerging EMF Technologies and Health Risk Management	COST (EC)	Nacional Representative	Project Leader	Development of methods for the measurement of electromagnetic fields and establishment of techniques for risk communication.	
Jan. 2010 / June 2012	EARTH	Energy Aware Radio and Network Technologies	ICT (EC)	Task Leader	Project Leader	Leadership of Task on Dissemination and Training. Analysis of the influence of the radio channel on energy efficiency and development algorithms for radio resource management in heterogeneous networks aiming at energy efficiency.	
July 2010 / Dec. 2012	eMobility-Networld	eMobility – NetWorld Coordination Action	ICT (EC)	Task Leader	Project Leader	Leadership of Task on Workshops for Strategic Research Agenda. Development of Strategic Agendas for R&D and applications.	
Aug. 2010 / Jan. 2013	SAIL	Scalable & Adaptive Internet Solutions	ICT (EC)	Task Leader	Project Leader	Leadership of Task on Dissemination. Characterisation of scenarios and usage models and establishment of models for the management of radio resources in heterogeneous virtual networks.	
May 2011 / Apr. 2015	COST IC1004	Cooperative Radio Communications for Green Smart Environments	COST (EC)	Nacional Representative	Project Leader	Development of channel models for Body Area Networks and of algorithms for heterogeneous networks optimisation.	

Participation in R&D Projects

Date	Acronym	Name	Funding source	Project role	Role at IST	Contribution	Funding [k €]
Nov. 2012 / Oct. 2015	MCN	Mobile Cloud Networking	ICT (EC)	-	Project Leader	Development of models for the virtualisation and cloudification of radio components in heterogeneous networks.	
Nov. 2012 / Oct. 2015	LEXNET	Low EMF Exposure Future Networks	ICT (EC)	WP Leader	Project Leader	Leadership of WP on Dissemination. Development of models for the influence of the body on the measurement of electromagnetic fields and exposure estimation.	
Nov. 2012 / Oct. 2015	NEWCOM#	Network of Excellence in Wireless Communications #	ICT (EC)	WP Leader	Project Leader	Leadership of WP on Integration. Development of channel models for Body Area Networks and of algorithms for the management of radio resources in heterogeneous virtual networks.	
Apr. 2013 / July 2023	FAQtos	Information on Electromagnetic Radiation from Mobile Communications	NOS, PT, Vodafone (Portugal)	Project Leader	Project Leader	Development of a website with information for the general population on exposure to electromagnetic radiation from mobile communications, measurements campaigns on electromagnetic fields and establishment of the FAQtos Prize for high school pupils.	
Mai. 2013 / Nov. 2015	MobileLab	Multimedia content for high schools based on mobile communications.	Vodafone (Portugal)	Project Leader	Project Leader	Development of multimedia content for high school level of Mathematics and Physics, based on mobile communications.	
Oct. 2013 / Sep. 2015	EuConNeCts	European Conferences on Networks and Communications	ICT (EC)	Project Leader	Project Leader	Organisation of 2014 and 2015 editions of the EuCNC conference.	

Participation in R&D Projects

Date	Acronym	Name	Funding source	Project role	Role at IST	Contribution	Funding [k €]
Mar. 2015 / Aug. 2017	EuConNeCts2	European Conferences on Networks and Communications	H2020 (EC)	Project Leader	Project Leader	Organisation of 2016 and 2017 editions of the EuCNC conference.	
Mar. 2016 / Feb. 2020	COST CA15104 - IRACON	Inclusive Radio Communication Networks for 5G and Beyond	COST (EC)	Nacional Representative, Science Communication Manager	Project Leader	Development of channel models for Body Area Networks, and of algorithms for resource management in virtual and cloud heterogeneous networks.	
June 2017 / Nov. 2019	EuConNeCts3	European Conferences on Networks and Communications	H2020 (EC)	Project Leader	Project Leader	Organisation of 2018 and 2019 editions of the EuCNC conference.	
June 2019 / Nov. 2022	EuConNeCts4	European Conferences on Networks and Communications	H2020 (EC)	Project Leader	Project Leader	Organisation of 2020, 2021 and 2022 editions of the EuCNC conference.	
Oct. 2021 / Oct. 2025	COST CA20120 - INTERACT	Intelligence-Enabling Radio Communications for Seamless Inclusive Interactions	COST (EC)	Nacional Representative, Training Coordinator	Project Leader	Development of channel models for Body Area Networks.	
May 2022 / Aug. 2025	6G Start	Starting the Sustainable 6G SNS Initiative for Europe	HEU (EC)	WP Leader	Project Leader	Organisation of 2023 and 2024 editions of the EuCNC &6GS conference.	

## **Annex E**

### ***Participation in Committees, Panels and other Bodies***

One has been invited/elected to be a Member/Chairman of the Committees of the following organisations:

- TCO1 July 2001/Dec. 2011: IEE/IET Technical Advisory Panel on Antennas and Propagation, Member, invited by the Steering Board.
- TCO2 Nov. 2004/July 2014: eMobility/Net!Works (European Technology Platform on Mobile & Wireless Communications) Expert Advisory Group, Member, invited by the Steering Board.
- TCO3 Jan. 2005/Apr. 2006: COST TC TIST (Technical Committee on Telecommunications and Information Science Technologies), Member, invited by FCT as a representative for Portugal.
- TCO4 Jan. 2006/Oct. 2013: eMobility/Net!Works (European Technology Platform on Mobile & Wireless Communications) Steering Board, Member, elected as a representative of universities.
- TCO5 Jan. 2006/Dec. 2014: IEEE Communications Society Portugal Chapter, Chairman, elected by members;
- TCO6 May 2006/Mar. 2008: COST DC ICT (Domain Committee on Information and Communication Technologies), Member, invited by FCT as a representative for Portugal.
- TCO7 Jan. 2008/July. 2012: eMobility/Net!Works (European Technology Platform on Mobile & Wireless Communications) Working Group on Applications, Chairman, nominated by the Steering Board.
- TCO8 Jan. 2016/Dec. 2018: European Association for Communications & Networking (EURACON), Board of Directors, Member, elected by members.
- TCO9 Apr. 2017/Mar. 2020: Funding Committee of EurAAP (European Association on Antennas and Propagation), Member, invited by the Board of Directors.
- TCO10 Jan. 2018/Dec. 2023: IEEE Communications Society Conferences Council, Member, invited by the Director for Conference Operations.

- TCO11 Jan. 2018/Dec. 2019: IEEE Communications Society Industry Outreach Board, Member, invited by the Director for Conference Operations.
- TCO12 Jan. 2018/Mar. 2022: RUDN (Peoples' Friendship University of Russia, Moscow, Russia) International Scientific Board, Member, invited by the Rector.
- TCO13 Jan. 2019/Dec. 2021: IEEE Communications Society GLOBECOM/ICC Management & Strategy (GIMS) Standing Committee, Member, being the Chair of Finances Working Group, invited by the Vice-President for Conferences.
- TCO14 Jan. 2019/Dec. 2021: European Association for Communications & Networking (EURACON), Board of Directors, Secretary, elected by members.
- TCO15 Jan. 2020/Dec. 2022: IEEE Communications Society Technological Evolution and Initiatives (TE&I) Standing Committee, Member, invited by the TE&I Committee Chair.
- TCO16 Apr. 2020/Mar. 2021: Funding Committee of EurAAP (European Association on Antennas and Propagation), Chairman, invited by the Board of Directors.
- TCO17 Jan. 2022/Dec. 2023: IEEE Communications Society GLOBECOM/ICC Management & Strategy (GIMS) Standing Committee, Chair, invited by the President.
- TCO18 Jan. 2022/Dec. 2024: European Association for Communications & Networking (EURACON), Board of Directors, Chairman, elected by members.
- TCO19 Apr. 2022/Dec. 2023: IEEE Communications Society Functions, Operations and Goals (FOG) SubCommittee, Member, invited by the FOG SubCommittee Chair.

One has been invited to be an Editor in the following journals:

- EDR1 Jan. 2004/Dec. 2006: European Transactions on Telecommunications.
- EDR2 Jan. 2007/Dec. 2011: Journal of Communication and Information Systems.
- EDR3 May 2007/Apr. 2013: Journal of Communications and Networks.

One has been invited to be part of the Technical Committee of the following journals:

- TCJ1 Jan. 2002/July 2020: Wireless Personal Communications.
- TCJ2 Jan. 2002/Dec. 2012: Annals of Telecommunications.
- TCJ3 May 2005/Apr. 2007: International Journal of Communication Systems.
- TCJ4 June 2007/Dec. 2014: PHYCOM: Physical Communication.

One has been invited to be Editor/Co-Editor of Special Issues in the following journals:

- ESI1 *Wireless Personal Communications*, Special Issue on Wireless Broadband Systems, Vol. 10, No. 1, June 1999.



- ESI2 *Journal of Communication and Information Systems*, Joint IEEE/ComSoc Special Issue on 21<sup>st</sup> Anniversary of SBrT, Vol. 20, No. 3, Dec. 2005
- ESI3 *European Transactions on Telecommunications*, Special Issue on IST Mobile and Wireless Communications Summit 2005, Vol. 17, No. 2, Mar.-Apr. 2006.
- ESI4 *Journal of Communication and Information Systems*, Joint IEEE/ComSoc Special Issue of SBrT, Vol. 21, No. 3, Dec. 2006.
- ESI5 *Annals of Telecommunications*, Special Issue on Health protection and RF exposure assessment: engineering aspects, Vol. 63, Nos. 1-2, Feb. 2008.
- ESI6 *Annals of Telecommunications*, Special Issue on Wireless Communication Systems, Vol. 63, Nos. 5-6, May/June 2008.
- ESI7 *Journal of Communications*, Special Issue on Improving the Energy Efficiency of Cellular Communications, Vol. 7, No. 10, Oct. 2012.
- ESI8 *International Journal of Wireless Information Networks*, Special Issue on Stretching the Boundaries in Wireless Communications, Vol. 21, No. 3, Sep. 2014.
- ESI9 *EURASIP Journal on Wireless Communications and Networking*, Special Issue on Advanced Transceivers and Networking for 5G Mobile Radio, Aug. 2018.
- ESI10 *EURASIP Journal on Wireless Communications and Networking*, Special Issue on Systems and Networks for 5G Implementation, July 2019.
- ESI11 *EURASIP Journal on Wireless Communications and Networking*, Special Issue on Enabling Technologies for Networks beyond 5G, Apr. 2021.
- ESI12 *EURASIP Journal on Wireless Communications and Networking*, Special Issue on Wireless Technologies for the Connectivity of the Future, May 2021.
- ESI13 *EURASIP Journal on Wireless Communications and Networking*, Special Issue on Wireless Technologies for 6G, May 2023.
- ESI14 *EURASIP Journal on Wireless Communications and Networking*, Special Issue on 6G Connectivity for a Sustainable World, Oct. 2023.

One has been invited to be part of the Steering Committees of the following conferences:

- CSC1 *EuCNC - European Conference on Networks and Communications* (Chair), since 2014.
- CSC2 *PIMRC - IEEE International Symposium on Personal, Indoor and Mobile Radio Communications*, since 2017.

One has been invited to be General Chair/Vice-Chair of the following conferences:

CGC1 *EuCAP 2015 - 9<sup>th</sup> European Conference on Antennas and Propagation*, Lisbon, Portugal, Apr. 2015 (Chair).

CGC2 *ISMIC 2017 - 11<sup>th</sup> International Symposium on Medical Information and Communication Technology*, Lisbon, Portugal, Feb. 2017 (Chair).

CGC3 *PIMRC 2018 - 29<sup>th</sup> IEEE International Symposium on Personal, Indoor and Mobile Radio Communications*, Bologna, Italy, Sep. 2018 (Vice-Chair).

One has been invited to be Technical Programme Chair/Co-Chair of the following conferences:

TPC1 *1<sup>st</sup> National Congress of Electrotechnical Engineering of the Engineers Association*, Lisbon, Portugal, May 1994 (Co-Chair).

TPC2 *PIMRC 2002 - 13<sup>th</sup> IEEE International Symposium on Personal, Indoor and Mobile Radio Communications*, Lisbon, Portugal, Sep. 2002 (Chair).

TPC3 *6<sup>th</sup> National Congress of Electrotechnical Engineering of the Engineers Association*, Lisbon, Portugal, May 2003 (Co-Chair).

TPC4 *ConfTele 2005 - 5<sup>th</sup> Conference on Telecommunications*, Tomar, Portugal, Apr. 2005 (Chair).

TPC5 *ICT 2006 - 13<sup>th</sup> International Conference on Telecommunications*, Funchal, Madeira, Portugal, May 2006 (Chair).

TPC6 *1<sup>st</sup> eMobility Workshop on Shaping the Future of Mobile and Wireless Communications*, Bonn, Germany, May 2006 (Chair).

TPC7 *ISWCS 2006 - 3<sup>rd</sup> International Symposium on Wireless Communications Systems*, Valencia, Spain, Sep. 2006 (Chair).

TPC8 *2<sup>nd</sup> eMobility Workshop on Shaping the Future of Mobile and Wireless Communications*, Rome, Italy, Sep. 2007 (Chair).

TPC9 *WPMC 2008 - 11<sup>th</sup> International Symposium on Wireless Personal Multimedia Communications*, Oulu, Finland, Sep. 2008 (Chair).

TPC10 *3<sup>rd</sup> eMobility Workshop on Shaping the Future of Mobile and Wireless Communications*, Stockholm, Sweden, Oct. 2008 (Chair).

TPC11 *4<sup>th</sup> eMobility Workshop on Shaping the Future of Mobile and Wireless Communications*, Madrid, Spain, May 2009 (Chair).

TPC12 *ICT 2009 - 16<sup>th</sup> International Conference on Telecommunications*, Marrakech, Morocco, May 2009 (Chair).

- TPC13 *5<sup>th</sup> eMobility Workshop on Shaping the Future of Mobile and Wireless Communications*, Athens, Greece, May 2010 (Chair).
- TPC14 *FuNeMS 2013 - 22<sup>nd</sup> Future Networks and Mobile Summit*, Lisbon, Portugal, 2013 (Chair).
- TPC15 *PIMRC 2013 - 24<sup>th</sup> IEEE International Symposium on Personal, Indoor and Mobile Radio Communications*, London, UK, Sep. 2013 (Chair).
- TPC16 *5GU 2014 - 1<sup>st</sup> International Conference on 5G for Ubiquitous Connectivity*, Åkäslopola, Finland, Nov. 2014 (Co-Chair).
- TPC17 *PIMRC 2015 - 26<sup>th</sup> IEEE International Symposium on Personal, Indoor and Mobile Radio Communications*, Hong-Kong, China, Aug. 2015 (Co-Chair).
- TPC18 *PIMRC 2016 - 27<sup>th</sup> IEEE International Symposium on Personal, Indoor and Mobile Radio Communications*, Valencia, Spain, Sep. 2016 (Co-Chair).
- TPC19 *ISWCS 2016 - 13<sup>th</sup> International Symposium on Wireless Communications Systems*, Poznan, Poland, Sep. 2016 (Co-Chair).
- TPC20 *PIMRC 2020 - 31<sup>st</sup> IEEE International Symposium on Personal, Indoor and Mobile Radio Communications*, London, UK, Sep. 2020 (Chair).

One has been invited to be Area Chair/Co-Chair of the following conferences:

- ACC1 *PIMRC 2008 - 19<sup>th</sup> IEEE International Symposium on Personal, Indoor and Mobile Radio Communications*, Cannes, France, Sep. 2008: Track Chair for Services & Applications.
- ACC2 *WCNC 2009 - IEEE Wireless Communications and Networking Conference*, Budapest, Hungary, Apr. 2009: Track Chair for Services.
- ACC3 *VTC 2009 Spring - 69<sup>th</sup> IEEE Vehicular Technology Conference*, Barcelona, Spain, May 2009: Track Chair for Multiple Antenna System and Space-Time Processing.
- ACC4 *PIMRC 2010 - 21<sup>st</sup> IEEE International Symposium on Personal, Indoor and Mobile Radio Communications*, Istanbul, Turkey, Sep. 2010: Track Chair for Services & Applications.
- ACC5 *PIMRC 2011 - 22<sup>nd</sup> IEEE International Symposium on Personal, Indoor and Mobile Radio Communications*, Toronto, Canada, Sep. 2011: Panels Co-Chair.
- ACC6 *EW 2012 - 18<sup>th</sup> European Wireless Conference*, Poznan, Poland, Apr. 2012: Panels Chair.
- ACC7 *PIMRC 2012 - 23<sup>rd</sup> IEEE International Symposium on Personal, Indoor and Mobile Radio Communications*, Sydney, Australia, Sep. 2012: Panels Co-Chair.

- ACC8 *PIMRC 2014 - 25<sup>th</sup> IEEE International Symposium on Personal, Indoor and Mobile Radio Communications*, Washington, DC, USA, Sep. 2014: Panels Co-Chair.
- ACC9 *CSCN 2016 - 2<sup>nd</sup> IEEE Conference on Standards for Communications & Networking*, Berlin, Germany, Nov. 2016: Panels Chair.
- ACC10 *IM 2017 - 15<sup>th</sup> IFIP/IEEE International Symposium on Integrated Network Management*, Lisbon, Portugal, May 2017: Patrons Chair.
- ACC11 *ICC 2017 - IEEE International Conference on Communications*, Paris, France, May 2017: Industry Forums and Exhibition Co-Chair.
- ACC12 *ISWCS 2017 - 14<sup>th</sup> International Symposium on Wireless Communications Systems*, Bologna, Italy, Aug. 2017: Workshops Chair.
- ACC13 *WCNC 2018 - IEEE Wireless Communications and Networking Conference*, Barcelona, Spain, Apr. 2018: Industry Programme Co-Chair.
- ACC14 *VTC 2018 Spring - 87<sup>th</sup> IEEE Vehicular Technology Conference*, Porto, Portugal, June 2018: Panels & Keynotes Co-Chair.
- ACC15 *ITST 2018 - 16<sup>th</sup> International Conference on Intelligent Transport Systems Telecommunications*, Lisbon, Portugal, Oct. 2018: Invited Sessions Chair.
- ACC16 *GLOBECOM 2018 - IEEE Global Communications Conference*, Abu Dhabi, United Arab Emirates, Dec. 2018: Industry Programme Chair.
- ACC17 *ICC 2019 - IEEE International Conference on Communications*, Shanghai, China, May 2019: Industry Forums Co-Chair.
- ACC18 *WCNC 2021 - IEEE Wireless Communications and Networking Conference*, Nanjing, China, Mar. 2021: Operations Chair.
- ACC19 *PIMRC 2021 - 32<sup>nd</sup> IEEE International Symposium on Personal, Indoor and Mobile Radio Communications*, Helsinki, Finland, Sep. 2021: Virtual Conference Co-Chair.
- ACC20 *PIMRC 2021 - 32<sup>nd</sup> IEEE International Symposium on Personal, Indoor and Mobile Radio Communications*, Helsinki, Finland, Sep. 2021: Awards Chair.
- ACC21 *WCNC 2022 - IEEE Wireless Communications and Networking Conference*, Austin, TX, USA, Apr. 2022: Industry Forums and Exhibitions Co-Chair.
- ACC22 *PIMRC 2022 - 33<sup>rd</sup> IEEE International Symposium on Personal, Indoor and Mobile Radio Communications*, Tokyo, Japan, Sep. 2022: Panels Co-Chair.
- ACC23 *PIMRC 2023 – 34<sup>th</sup> IEEE International Symposium on Personal, Indoor and Mobile Radio Communications*, Toronto, Canada, Sep. 2023: Workshops Co-Chair.
- ACC24 *WF-IoT 2023 - 9<sup>th</sup> IEEE World Forum on Internet of Things*, Aveiro, Portugal, Oct. 2023: Tutorials Co-Chair.

ACC25 *GLOBECOM 2023 - IEEE Global Communications Conference*, Kuala Lumpur, Malaysia, Dec. 2023: Industry Forums and Exhibitions Co-Chair.

One has been invited to organise/moderate panels in the following conferences:

- POC1 “Application Requirements for Mobile Broadband”, *17<sup>th</sup> ICT Mobile & Wireless Communications Summit*, Stockholm, Sweden, June 2008.
- POC2 “Future Networking Applications”, *Wireless World Research Forum Meeting 22*, Paris, France, May 2009.
- POC3 “Addressing the 2% Share in Green Communications”, *PIMRC 2010 - 21<sup>st</sup> IEEE International Symposium on Personal, Indoor and Mobile Radio Communications*, Istanbul, Turkey, Sep. 2010.
- POC4 “Cognitive Management of Spectrum”, *ITU WT’11 - Technical Symposium at ITU Telecom World 2011*, Grenoble, Switzerland, Oct. 2011.
- POC5 “How to make Mobile Cellular Communications even Greener?”, *PIMRC 2011 - 22<sup>nd</sup> IEEE International Symposium on Personal, Indoor and Mobile Radio Communications*, Toronto, Canada, Sep. 2011.
- POC6 “Which will be the Winning Technologies for the Networks of the Future?”, *PIMRC 2011 - 22<sup>nd</sup> IEEE International Symposium on Personal, Indoor and Mobile Radio Communications*, Toronto, Canada, Sep. 2011.
- POC7 “Trends in the Future of Wireless Communications”, *EW 2012 - 18<sup>th</sup> European Wireless Conference*, Poznan, Poland, Apr. 2012.
- POC8 “Smart City Infrastructure”, *FIA 2012 – Future Internet Assembly*, Aalborg, Denmark, May 2012.
- POC9 “Case Studies: Smart City Strategies”, *International Conference on Smart Cities for Sustainable Growth*, Lisbon, Portugal, May 2012.
- POC10 “Networks with a Human Face”, *ITU Telecom World Forum 2012*, Dubai, UAE, Oct. 2012.
- POC11 “Requirements from Networking to Horizon 2020”, *Net!Works Event 2012*, Brussels, Belgium, Nov. 2012.
- POC12 “A practical view on the participation in R&D projects”, *FCT Workshop on ICT in Horizon2020*, Lisbon, Portugal, Feb. 2014.
- POC13 “5G: Technologies and applications”, *ICT’14 - 21<sup>st</sup> International Conference on Telecommunications*, Lisbon, Portugal, May 2014.

- POC14 “Communications and Networks”, *5<sup>th</sup> European Summit on the Future Internet*, Luxembourg, Luxembourg, June 2014.
- POC15 “Standardisation Contributions by European Framework Research Projects”, *3<sup>rd</sup> IEEE Workshop on Telecommunications Standards, at GLOBECOM 2014 - IEEE Global Communications Conference*, Austin, TX, USA, Dec. 2014.
- POC16 “The Impact of 5G on the Digital Economy”, *FCT’s Workshop on the Impact of 5G on the Digital Economy*, Aveiro, Portugal, June 2016.
- POC17 “Cloud and Virtual Networks: are operators going to subcontract network management to IT companies?”, *IM 2017 - 15<sup>th</sup> IFIP/IEEE International Symposium on Integrated Network Management*, Lisbon, Portugal, May 2017.
- POC18 “Trends on B5G Research”, *COST IRACON / IEEE VTS Workshop on Massive Array Antenna Systems for Millimetre Wavebands B5G Networks*, Lisbon, Portugal, Mar. 2018.
- POC19 “5G Communications”, *Wireless Meeting 2018*, Lisbon, Portugal, June 2018.
- POC20 “The Future of Driving”, *Academia Meets Autoindustry*, Lisbon, Portugal, May 2019.
- POC21 “Research on Beyond 5G”, *3<sup>rd</sup> 5G+ Summit R&D Russia*, Moscow, Russia, Oct. 2019.
- POC22 “5G and Smart Cities”, *Tech Days*, Aveiro, Portugal, Oct. 2019.
- POC23 “Careers in Practicing and Research Engineering”, *EuCNC&6GS 2022 – 31<sup>st</sup> European Conference on Networks and Communications & 6G Summit*, Grenoble, France, June 2022.
- POC24 “Careers in Practicing and Research Engineering”, *EuCNC&6GS 2023 – 32<sup>nd</sup> European Conference on Networks and Communications & 6G Summit*, Gothenburg, Sweden, June 2023.
- POC25 “Halfway to Become a Professional (or What Career Should I Choose?)”, *PIMRC 2023 – 34<sup>th</sup> IEEE International Symposium on Personal, Indoor and Mobile Radio Communications*, Toronto, Canada, Sep. 2023.
- POC26 “Trends towards 6G: from the wish list to the standards”, *GLOBECOM 2023 - IEEE Global Communications Conference*, Kuala Lumpur, Malaysia, Dec. 2023

One has been invited to participate in panels in the following conferences:

- PPC1 “3G to 4G: towards full mobility IP services”, *ICC 2009 - IEEE International Conference on Communications*, Dresden, Germany, June 2009.
- PPC2 “Harnessing Mobile Broadband Technologies and Innovation”, *WCNC 2012 - IEEE Wireless Communications and Networking Conference*, Paris, France, Apr. 2012.

- PPC3 “Innovative ways of using wireless broadband”, *PIMRC 2012 - 23<sup>rd</sup> IEEE International Symposium on Personal, Indoor and Mobile Radio Communications*, Sydney, Australia, Sep. 2012.
- PPC4 “Impact of cloud computing and future Internet on mobile and wireless communications”, *VTC 2013 Spring - 77<sup>th</sup> IEEE Vehicular Technology Conference*, Dresden, Germany, June 2013.
- PPC5 “Cognitive radio systems and networks for flexible spectrum usage”, *VTC 2013 Spring - 77<sup>th</sup> IEEE Vehicular Technology Conference*, Dresden, Germany, June 2013.
- PPC6 “Mobile Cloud Networks”, *ITU Telecom World Forum 2013*, Bangkok, Thailand, Oct. 2013.
- PPC7 “European Activities on 5G, Looking at Vertical Markets”, *PIMRC 2015 - 26<sup>th</sup> IEEE International Symposium on Personal, Indoor and Mobile Radio Communications*, Hong-Kong, China, Aug. 2015.
- PPC8 “5G perspectives”, *CROWNCOM 2017 - 12<sup>th</sup> International Conference on Cognitive Radio Oriented Wireless Networks*, Lisbon, Portugal, Sep. 2017.
- PPC9 “What the Global Community Can Teach Us on Smart City Approaches”- *GreenTech 2018 – 10<sup>th</sup> IEEE Green Technologies Conference*, Austin, TX, USA, Apr. 2018.
- PPC10 “Artificial Intelligence and Blockchain: Myths, reality and required competences”, *XV Executive Digest Conference*, Lisbon, Portugal, Nov. 2018.
- PPC11 “Ready to Ignite your Future?”, *2<sup>nd</sup> Altran Ignition Day*, Lisbon, Portugal, Nov. 2019.
- PPC12 “5G Mobile Communications: from the technological revolution to impacts”, *APDSI MeetOn*, Lisbon, Portugal, July 2020.
- PPC13 “ITED4 and 5G Networks”, *ACIST Annual Meeting*, Lisbon, Portugal, June 2021.

One has been invited to be part of the Technical Programme Committees of the following conferences:

- CTC1 *International Workshop on Mobile Communications*, Thessaloniki, Greece, Sep. 1996.
- CTC2 *ICT’98 - 5<sup>th</sup> International Conference on Telecommunications*, Chaldiki, Greece, June 1998.
- CTC3 *VTC’99 Fall - 50<sup>th</sup> IEEE Vehicular Technology Conference*, Amsterdam, The Netherlands, Sep. 1999.

- CTC4 *PIMRC 2000 - 11<sup>th</sup> IEEE International Symposium on Personal, Indoor and Mobile Radio Communications*, London, UK, Sep. 2000.
- CTC5 *EPMCC 2001 - 4<sup>th</sup> European Personal Mobile Communications Conference*, Vienna, Austria, Feb. 2001.
- CTC6 *VTC 2001 Spring - 53<sup>rd</sup> IEEE Vehicular Technology Conference*, Tel Aviv, Israel, May 2001.
- CTC7 *International Symposium on 3G Infrastructure and Services*, Athens, Greece, July 2001.
- CTC8 *WPMC 2001 - 4<sup>th</sup> International Symposium on Wireless Personal Multimedia Communications*, Aalborg, Denmark, Sep. 2001.
- CTC9 *PIMRC 2001 - 12<sup>th</sup> IEEE International Symposium on Personal, Indoor and Mobile Radio Communications*, San Diego, CA, USA, Sep. 2001.
- CTC10 *ICT 2002 - 9<sup>th</sup> International Conference on Telecommunications*, Beijing, China, June 2002.
- CTC11 *ITS 2002 - International Symposium on Telecommunications*, Natal, Brazil, Sep. 2002.
- CTC12 *European Conference on Wireless Technology*, Milan, Italy, Sep. 2002.
- CTC13 *ICT 2003 - 10<sup>th</sup> International Conference on Telecommunications*, French Guiana, June 2003.
- CTC14 *EPMCC 2003 - 5<sup>th</sup> European Personal Mobile Communications Conference*, Glasgow, UK, Apr. 2003.
- CTC15 *12<sup>th</sup> IST Mobile & Wireless Communications Summit*, Aveiro, Portugal, June 2003.
- CTC16 *PIMRC 2003 - 14<sup>th</sup> IEEE International Symposium on Personal, Indoor and Mobile Radio Communications*, Beijing, China, Sep. 2003.
- CTC17 *WPMC 2003 - 6<sup>th</sup> International Symposium on Wireless Personal Multimedia Communications*, Yokosuka, Japan, Oct. 2003.
- CTC18 *EW 2004 - 5<sup>th</sup> European Wireless Conference*, Barcelona, Spain, Feb. 2004.
- CTC19 *WCNC 2004 - IEEE Wireless Communications and Networking Conference*, Atlanta, GA, USA, Mar. 2004.
- CTC20 *Networking 2004*, Athens, Greece, May 2004.
- CTC21 *13<sup>th</sup> IST Mobile & Wireless Communications Summit*, Lyon, France, June 2004.
- CTC22 *ICT'04 - 11<sup>th</sup> International Conference on Telecommunications*, Fortaleza, Brazil, Aug. 2004.



- CTC23 *CSN 2004 - IASTED International Conference on Communications Systems and Networks*, Marbella, Spain, Sep. 2004.
- CTC24 *PIMRC 2004 - 15<sup>th</sup> IEEE International Symposium on Personal, Indoor and Mobile Radio Communications*, Barcelona, Spain, Sep. 2004.
- CTC25 *WPMC 2004 - 7<sup>th</sup> International Symposium on Wireless Personal Multimedia Communications*, Padova, Italy, Sep. 2004.
- CTC26 *EW2005 - 13<sup>th</sup> European Wireless Conference*, Nicosia, Cyprus, Apr. 2005.
- CTC27 *ICT'05 - 12<sup>th</sup> International Conference on Telecommunications*, Cape Town, South Africa, May 2005.
- CTC28 *IWCT'05 - International Workshop on Convergent Technologies*, Oulu, Finland, June 2005.
- CTC29 *14<sup>th</sup> IST Mobile & Wireless Communications Summit*, Dresden, Germany, June 2005.
- CTC30 *PIMRC 2005 - 16<sup>th</sup> IEEE International Symposium on Personal, Indoor and Mobile Radio Communications*, Berlin, Germany, Sep. 2005.
- CTC31 *WPMC 2005 - 8<sup>th</sup> International Symposium on Wireless Personal Multimedia Communications*, Aalborg, Denmark, Sep. 2005.
- CTC32 *APCC 2005 - 11<sup>th</sup> Asia-Pacific Conference on Communications*, Perth, Australia, Oct. 2005.
- CTC33 *WEMIC 2006 - 1<sup>st</sup> Wireless Euro-Mediterranean International Conference*, Amman, Jordan, Mar. 2006
- CTC34 *EW 2006 - 7<sup>th</sup> European Wireless Conference*, Athens, Greece, Apr. 2006
- CTC35 *EHE'06 - International Conference on Electromagnetic Fields, Health and Environment*, Funchal, Madeira, Portugal, Apr. 2006
- CTC36 *VTC 2006 Spring - 63<sup>rd</sup> IEEE Vehicular Technology Conference*, Melbourne, Australia, May 2006
- CTC37 *15<sup>th</sup> IST Mobile & Wireless Communications Summit*, Mikonos, Greece, June 2006
- CTC38 *ICC 2006 - IEEE International Conference on Communications – Wireless Communications Symposium*, Istanbul, Turkey, June 2006.
- CTC39 *ISSSTA 2006 - 9<sup>th</sup> IEEE International Symposium on Spread Spectrum Techniques and Applications*, Manaus, Brazil, Aug. 2006.
- CTC40 *MWCN 2006 - 8<sup>th</sup> IFIP/IEEE Mobile and Wireless Communication Networks*, Santiago, Chile, Aug. 2006
- CTC41 *ITS 2006 - International Telecommunications Symposium*, Fortaleza, Brazil, Sep. 2006

- CTC42 *PIMRC 2006 - 17<sup>th</sup> IEEE International Symposium on Personal, Indoor and Mobile Radio Communications*, Helsinki, Finland, Sep. 2006
- CTC43 *VTC 2006 Fall - 64<sup>th</sup> IEEE Vehicular Technology Conference*, Montreal, Canada, Sep. 2006
- CTC44 *EW 2007 - 13<sup>th</sup> European Wireless Conference*, Paris, France, Apr. 2007
- CTC45 *VTC 2007 Spring - 65<sup>th</sup> IEEE Vehicular Technology Conference*, Dublin, Ireland, Apr. 2007
- CTC46 *ConfTele 2007 - 6<sup>th</sup> Conference on Telecommunications*, Peniche, Portugal, Apr. 2007.
- CTC47 *ICT'07 - 14<sup>th</sup> International Conference on Telecommunications*, Penang, Malaysia, May 2007.
- CTC48 *16<sup>th</sup> IST Mobile & Wireless Communications Summit*, Budapest, Hungary, July 2007.
- CTC49 *IADIS International Conference Wireless Applications and Computing*, Lisbon, Portugal, July 2007.
- CTC50 *ChinaCom 2007 - International Conference on Communications and Networking in China*, Shanghai, China, Aug. 2007
- CTC51 *PIMRC 2007 - 18<sup>th</sup> IEEE International Symposium on Personal, Indoor and Mobile Radio Communications*, Athens, Greece, Sep. 2007.
- CTC52 *MWCN 2007 - 9<sup>th</sup> IFIP/IEEE International Conference on Mobile and Wireless Communications Networks*, Cork, Ireland, Sep. 2007
- CTC53 *WRECOM 2007 - Wireless Rural and Emergency Communications Conference*, Rome, Italy, Oct. 2007
- CTC54 *ISWCS'07 - 4<sup>th</sup> International Symposium on Wireless Communications Systems*, Trondheim, Norway, Oct. 2007
- CTC55 *ISMICT'07 - 2<sup>nd</sup> International Symposium on Medical Information and Communication Technology*, Oulu, Finland, Dec. 2007.
- CTC56 *WPMC 2007 - 10<sup>th</sup> International Symposium on Wireless Personal Multimedia Communications*, Jaipur, India, Dec. 2007.
- CTC57 *17<sup>th</sup> ICT Mobile & Wireless Communications Summit*, Stockholm, Sweden, June 2008.
- CTC58 *ICT'08 - 15<sup>th</sup> International Conference on Telecommunications*, St. Petersburg, Russia, June 2008.
- CTC59 *EW 2008 - 14<sup>th</sup> European Wireless Conference*, Prague, Czech Republic, June 2008.

- CTC60 *ISSSTA 2008 - 10<sup>th</sup> IEEE International Symposium on Spread Spectrum Techniques and Applications*, Bologna, Italy, Aug. 2008.
- CTC61 *ChinaCom 2008 - International Conference on Communications and Networking in China*, Hangzhou, China, Aug. 2008.
- CTC62 *MWCN 2008 - 10<sup>th</sup> IFIP/IEEE Mobile and Wireless Communication Networks*, Toulouse, France, Sep. 2008.
- CTC63 *SWiN 2008 - 1<sup>st</sup> IEEE International Workshop on Simulators for Wireless Networks*, Avignon, France, Oct. 2008
- CTC64 *ISWCS'08 - 5<sup>th</sup> International Symposium on Wireless Communications Systems*, Reykjavik, Iceland, Oct. 2008.
- CTC65 *ISMICT'09 - 3<sup>rd</sup> International Symposium on Medical Information and Communication Technology*, Montreal, Canada, Feb. 2009.
- CTC66 *ConfTele 2009 - 7<sup>th</sup> Conference on Telecommunications*, Sta. Maria da Feira, Portugal, May 2009.
- CTC67 *EW 2009 - 15<sup>th</sup> European Wireless Conference*, Aalborg, Denmark, May 2009.
- CTC68 *Wireless VITAE 2009 - 1<sup>st</sup> Wireless Communication Society, Vehicular Technology, Information Theory and Aerospace & Electronic Systems Technology Conference*, Aalborg, Denmark, May 2009.
- CTC69 *18<sup>th</sup> ICT Mobile & Wireless Communications Summit*, Santander, Spain, June 2009
- CTC70 *Workshop on the Network of the Future, ICC 2009 - IEEE International Conference on Communications*, Dresden, Germany, June 2009.
- CTC71 *IWCLD 2009 - 2<sup>nd</sup> IEEE International Workshop on Cross-Layer Design*, Palma de Mallorca, Spain, June 2009.
- CTC72 *WMNC 2009 - 2<sup>nd</sup> IFIP Wireless and Mobile Networking Conference*, Gdansk, Poland, Sep. 2009.
- CTC73 *WPMC 2009 - 12<sup>th</sup> International Symposium on Wireless Personal Multimedia Communications*, Sendai, Japan, Sep. 2009.
- CTC74 *PIMRC 2009 - 20<sup>th</sup> IEEE International Symposium on Personal, Indoor and Mobile Radio Communications*, Tokyo, Japan, Sep. 2009.
- CTC75 *ComNet 2009 - 1<sup>st</sup> International Conference on Communications and Networking*, Hammamet, Tunisia, Nov. 2009.
- CTC76 *DoCEIS 2010 - 1<sup>st</sup> Doctoral Conference on Computing, Electrical and Industrial Systems*, Costa da Caparica, Portugal, Feb. 2010.

- CTC77 *ISMICT'10 - 4<sup>th</sup> International Symposium on Medical Information and Communication Technology*, Taipei, Taiwan, Mar. 2010.
- CTC78 *EW 2010 - 16<sup>th</sup> European Wireless Conference*, Lucca, Italy, Apr. 2010.
- CTC79 *1<sup>st</sup> International Workshop on Smart Grid Communications, ICC 2010 - IEEE International Conference on Communications*, Cape Town, South Africa, May 2010.
- CTC80 *ICT Future Network & Mobile Summit*, Florence, Italy, June 2010.
- CTC81 *EuWIT 2010 - European Wireless Technology Conference*, Paris, France, Sep. 2010.
- CTC82 *VTC 2010 Fall - 72<sup>nd</sup> IEEE Vehicular Technology Conference*, Ottawa, Canada, Sep. 2010.
- CTC83 *ITS 2010 - International Telecommunications Symposium*, Manaus, Brazil, Sep. 2010.
- CTC84 *ISWCS'10 - 7<sup>th</sup> International Symposium on Wireless Communications Systems*, York, UK, Sep. 2010.
- CTC85 *W-GREEN 2010 - 2<sup>nd</sup> International Workshop on Green Wireless, PIMRC 2010 - 21<sup>st</sup> IEEE International Symposium on Personal, Indoor and Mobile Radio Communications*, Istanbul, Turkey, Sep. 2010.
- CTC86 *WPMC 2010 - 13<sup>th</sup> International Symposium on Wireless Personal Multimedia Communications*, Recife, Brazil, Oct. 2010.
- CTC87 *ComNet 2010 - 2<sup>nd</sup> International Conference on Communications and Networking*, Hammamet, Tunisia, Nov. 2010.
- CTC88 *DoCEIS 2011 - 2<sup>nd</sup> Doctoral Conference on Computing, Electrical and Industrial Systems*, Costa da Caparica, Portugal, Feb. 2011.
- CTC89 *EW 2011 - 17<sup>th</sup> European Wireless Conference*, Vienna, Austria, Apr. 2011.
- CTC90 *EuCAP 2011 - 5<sup>th</sup> European Conference on Antennas and Propagation*, Rome, Italy, Apr. 2011.
- CTC91 *ICNIRP's International Conference on Non-Ionizing Radiation and Children's Health*, Ljubljana, Slovenia, May 2011.
- CTC92 *II Congresso de Proteção Contra Radiações da Comunidade dos Países de Língua Portuguesa*, Recife, Brazil, May 2011.
- CTC93 *Workshop on Embedding the Real World into the Future Internet, ICC 2011 - IEEE International Conference on Communications*, Kyoto, Japan, June 2011.
- CTC94 *ICT Future Network & Mobile Summit*, Warsaw, Poland, June 2011.
- CTC95 *VTC 2011 Fall - 74<sup>th</sup> IEEE Vehicular Technology Conference*, San Francisco, CA, USA, Sep. 2011.

- CTC96 *W-GREEN 2011 - 3<sup>rd</sup> International Workshop on Green Wireless, PIMRC 2011 - 22<sup>nd</sup> IEEE International Symposium on Personal, Indoor and Mobile Radio Communications*, Toronto, Canada, Sep. 2011.
- CTC97 *MOBILITY 2011 - International Conference on Mobile Services, Resources and Users*, Barcelona, Spain, Oct. 2011.
- CTC98 *WPMC 2011 - 14<sup>th</sup> International Symposium on Wireless Personal Multimedia Communications*, Brest, France, Oct. 2011.
- CTC99 *WMNC 2011 - 4<sup>th</sup> IFIP Wireless and Mobile Networking Conference*, Hammamet, Tunisia, Oct. 2011.
- CTC100 *ITU Telecom World 2011 Technical Symposium*, Geneva, Switzerland, Oct. 2011.
- CTC101 *ISWCS'11 - 8<sup>th</sup> International Symposium on Wireless Communications Systems*, Aachen, Germany, Nov. 2011.
- CTC102 *IWCLD 2011 - 3<sup>rd</sup> IEEE International Workshop on Cross-Layer Design*, Rennes, France, Nov. 2011.
- CTC103 *DoCEIS 2012 - 3<sup>rd</sup> Doctoral Conference on Computing, Electrical and Industrial Systems*, Costa da Caparica, Portugal, Feb. 2012.
- CTC104 *ComNet 2012 - 3<sup>rd</sup> International Conference on Communications and Networking*, Hammamet, Tunisia, Mar. 2012.
- CTC105 *EuCAP 2012 - 6<sup>th</sup> European Conference on Antennas and Propagation*, Prague, Czech Republic, Mar. 2012.
- CTC106 *Workshop on Future Green Communications, WCNC 2012 - IEEE Wireless Communications and Networking Conference*, Paris, France, Apr. 2012
- CTC107 *EW 2012 - 18<sup>th</sup> European Wireless Conference*, Poznan, Poland, Apr. 2012.
- CTC108 *Workshop on the Networks of the Future, ICC 2012 - IEEE International Conference on Communications*, Ottawa, Canada, June 2012.
- CTC109 *ICT Future Network & Mobile Summit*, Berlin, Germany, July 2012
- CTC110 *InOWo 2012 - 17<sup>th</sup> International OFDM Workshop*, Essen, Germany, Aug. 2012.
- CTC111 *ISWCS'12 - 9<sup>th</sup> International Symposium on Wireless Communications Systems*, Paris, France, Aug. 2012.
- CTC112 *VTC 2012 Fall - 76<sup>th</sup> IEEE Vehicular Technology Conference*, Quebec City, Canada, Sep. 2012.
- CTC113 *W-GREEN 2012 - 4<sup>th</sup> International Workshop on Green Wireless, PIMRC 2012 – 23<sup>rd</sup> IEEE International Symposium on Personal, Indoor and Mobile Radio Communications*, Sydney, Australia, Sep. 2012.

- CTC114 *WDN 2012 - International Workshop on Cooperative and Heterogeneous Cellular Networks, PIMRC 2012 - 23<sup>rd</sup> IEEE International Symposium on Personal, Indoor and Mobile Radio Communications*, Sydney, Australia, Sep. 2012.
- CTC115 *WMNC 2012 - 5<sup>th</sup> IFIP Wireless Mobile Networking Conference*, Bratislava, Slovakia, Sep. 2012.
- CTC116 *DaMNet 2012 - 2<sup>nd</sup> IEEE ICDM Workshop on Data Mining in Networks, ICDM 2012 - IEEE International Conference on Data Mining*, Brussels, Belgium, Dec. 2012.
- CTC117 *ISADS 2013 - 11<sup>th</sup> International Symposium on Autonomous Decentralised Systems*, Mexico City, Mexico, Mar. 2013.
- CTC118 *WMNC 2013 - 6<sup>th</sup> IFIP Wireless Mobile Networking Conference*, Dubai, UAE, Apr. 2013.
- CTC119 *DoCEIS 2013 - 4<sup>th</sup> Doctoral Conference on Computing, Electrical and Industrial Systems*, Costa da Caparica, Portugal, Apr. 2013.
- CTC120 *EW 2013 - 19<sup>th</sup> European Wireless Conference*, Guildford, UK, Apr. 2013.
- CTC121 *CFIC 2013 - Conference on Future Internet Communications*, Coimbra, Portugal, May 2013.
- CTC122 *Wireless Communications Symposium, ICC 2013 - IEEE International Conference on Communications*, Budapest, Hungary, June 2013.
- CTC123 *VTC 2013 Spring - 77<sup>th</sup> IEEE Vehicular Technology Conference*, Dresden, Germany, June 2013.
- CTC124 *ISWCS'13 - 10<sup>th</sup> International Symposium on Wireless Communications Systems*, Ilmenau, Germany, Aug. 2013.
- CTC125 *EuMC 2013 - 43<sup>rd</sup> European Microwave Conference*, Nuremberg, Germany, Oct. 2013.
- CTC126 *IWCLD 2013 - 4<sup>th</sup> IEEE International Workshop on Cross-Layer Design*, Qingdao, China, Oct. 2013.
- CTC127 *GLOBECOM 2013 - IEEE Global Communications Conference*, Atlanta, GA, USA, Dec. 2013.
- CTC128 *EuCAP 2014 - 8<sup>th</sup> European Conference on Antennas and Propagation*, The Hague, The Netherlands, Apr. 2014.
- CTC129 *DoCEIS 2014 - 5<sup>th</sup> Doctoral Conference on Computing, Electrical and Industrial Systems*, Costa da Caparica, Portugal, Apr. 2014.

- CTC130 *Workshop on Interference and Design Issues for Future Heterogeneous Networks, Workshop on Wireless Evolution Beyond 2020, WCNC 2014 - Wireless Communications and Networking Conference*, Istanbul, Turkey, Apr. 2014.
- CTC131 *EW 2014 - 20<sup>th</sup> European Wireless Conference*, Barcelona, Spain, May 2014.
- CTC132 *WMNC 2014 - 7<sup>th</sup> IFIP Wireless Mobile Networking Conference*, Vilamoura, Portugal, May 2014.
- CTC133 *Wireless Communications Symposium, ICC 2014 - IEEE International Conference on Communications*, Sydney, Australia, June 2014.
- CTC134 *ISCC 2014 - 19<sup>th</sup> IEEE Symposium on Computers and Communications*, Funchal, Portugal, June 2014.
- CTC135 *InOWo 2014 - 18<sup>th</sup> International OFDM Workshop*, Essen, Germany, Aug. 2014.
- CTC136 *BodyNets 2014 - 9<sup>th</sup> International Conference on Body Area Networks*, London, UK, Sep. 2014.
- CTC137 *DoCEIS 2015 - 6<sup>th</sup> Doctoral Conference on Computing, Electrical and Industrial Systems*, Costa da Caparica, Portugal, Apr. 2015.
- CTC138 *BlackSeaCom 2015 - IEEE International Black Sea Conference on Communications and Networking*, Constanta, Romania, May 2015.
- CTC139 *Med-Hoc-Net 2015 - 13<sup>th</sup> IEEE/IFIP Annual Mediterranean Ad Hoc Networking Workshop*, Albufeira, Portugal, June 2015.
- CTC140 *ISCC 2015 - 20<sup>th</sup> IEEE International Symposium on Computer and Communications*, Larnaca, Cyprus, July 2015.
- CTC141 *ISWCS 2015 - 12<sup>th</sup> International Symposium on Wireless Communications Systems*, Brussels, Belgium, Aug. 2015.
- CTC142 *1<sup>st</sup> International Conference on Future Access Enablers of Ubiquitous and Intelligent Infrastructures*, Ohrid, Republic of Macedonia, Sep. 2015.
- CTC143 *WMNC 2015 - 8<sup>th</sup> IFIP Wireless Mobile Networking Conference*, Munich, Germany, Oct. 2015.
- CTC144 *CTTE 2015 - 12<sup>th</sup> Conference of Telecommunication, Media and Internet Techno-Economics*, Munich, Germany, Nov. 2015.
- CTC145 *V Congress on Protection against Radiation (V Congresso de Proteção Contra Radiações)*, Coimbra, Portugal, Mar. 2016.
- CTC146 *ISMICT 2016 - 10<sup>th</sup> International Symposium on Medical Information and Communication Technology*, Worcester, MA, USA, Mar. 2016.

- CTC147 *ICOF 2016 - 19<sup>th</sup> International Conference on OFDM and Frequency Domain Techniques*, Essen, Germany, Aug. 2016.
- CTC148 *ITC 28 - 28<sup>th</sup> International Teletraffic Congress*, Würzburg, Germany, Sep. 2016.
- CTC149 *CoBCom 2016 – 1<sup>st</sup> International Conference on Broadband Communications for Next Generation Networks and Multimedia Applications*, Graz, Austria, Sep. 2016.
- CTC150 *DoCEIS 2017 - 8<sup>th</sup> Doctoral Conference on Computing, Electrical and Industrial Systems*, Costa da Caparica, Portugal, May 2017.
- CTC151 *VI Congress on Protection against Radiation (VI Congresso de Proteção Contra Radiações)*, Goiânia, Brazil, Sep. 2017.
- CTC152 *Workshop on The Economics of Wireless Network Virtualization, PMRC 2017 - 28<sup>th</sup> IEEE International Symposium on Personal, Indoor and Mobile Radio Communications*, Montreal, Canada, Oct. 2017.
- CTC153 *DoCEIS 2018 - 9<sup>th</sup> Doctoral Conference on Computing, Electrical and Industrial Systems*, Costa da Caparica, Portugal, May 2018.
- CTC154 *1<sup>st</sup> Baltic URSI Symposium*, Poznan, Poland, May 2018.
- CTC155 *CoBCom 2018 – 2<sup>nd</sup> International Conference on Broadband Communications for Next Generation Networks and Multimedia Applications*, Graz, Austria, July 2018.
- CTC156 *EuCAP 2019 - 13<sup>th</sup> European Conference on Antennas and Propagation*, Krakow, Poland, Mar. 2019.
- CTC157 *DoCEIS 2019 – 10<sup>th</sup> Doctoral Conference on Computing, Electrical and Industrial Systems*, Costa da Caparica, Portugal, May 2019.
- CTC158 *EuCAP 2020 - 14<sup>th</sup> European Conference on Antennas and Propagation*, Copenhagen, Denmark, Mar. 2020.
- CTC159 *Baltic URSI Symposium 2020*, Vilnius, Lithuania, May 2020.
- CTC160 *IoT-Health 2020 - 3<sup>rd</sup> International Workshop on IoT Enabling Technologies in Healthcare at ICC 2020*, Dublin, Ireland, June 2020.
- CTC161 *CoBCom 2020 – 3<sup>rd</sup> International Conference on Broadband Communications for Next Generation Networks and Multimedia Applications*, Graz, Austria, July 2020.
- CTC162 *EuCAP 2021 - 15<sup>th</sup> European Conference on Antennas and Propagation*, Düsseldorf, Germany, Mar. 2021.
- CTC163 *EuCAP 2022 - 16<sup>th</sup> European Conference on Antennas and Propagation*, Dusseldorf, Germany (virtual), Mar. 2022.



- CTC164 *CoBCom 2022 – 4<sup>th</sup> International Conference on Broadband Communications for Next Generation Networks and Multimedia Applications*, Graz, Austria, July 2022.
- CTC165 *EuCAP 2023 - 17<sup>th</sup> European Conference on Antennas and Propagation*, Florence, Italy, Mar. 2023.
- CTC166 *WCNC 2023 - IEEE Wireless Communications and Networking Conference*, Glasgow, UK, Mar. 2023.
- CTC167 *6G Net 2023 - International Conference on 6G Networking*, Paris, France, Oct. 2023.
- CTC168 *WCNC 2024 - IEEE Wireless Communications and Networking Conference*, Dubai, UAE, Apr. 2024.
- CTC169 *Nordic Conference on Digital Health and Wireless Solutions*, Oulu, Finland, May 2024.



## Annex F

### ***Books and Papers Reviewing***

One has been invited to review books for publishers (in parentheses, the number of reviews in a year is shown, when it is more than 1) as follows:

BPR1 Kluwer Academic Publishers: 1996, 2001.

BPR2 John Wiley: 2000 (3), 2001 (3), 2002 (3), 2003, 2004, 2005, 2006, 2007, 2008, 2012.

BPR3 Elsevier: 2005 (2), 2007 (3), 2010.

BPR4 Cambridge University Press: 2014.

One has been invited to review papers for international journals (in parentheses, the number of reviews in a year is shown, when it is more than 1) as follows:

PJR1 *IEEE Transactions on Vehicular Technology*: 1994, 1997, 1998, 1999, 2000, 2001, 2004 (2), 2006, 2008, 2009, 2012, 2013 (2), 2017.

PJR2 *Journal of the Applied Computational Electromagnetics Society*: 1995.

PJR3 *Wireless Personal Communications*: 1995, 1996 (2), 1998, 2000, 2001, 2002 (2), 2003, 2004, 2005, 2008, 2011.

PJR4 *IEEE Communications Magazine*: 1997, 2003, 2010 (2), 2011, 2012.

PJR5 *IEEE Transactions on Antennas and Propagation*: 1999 (2), 2000 (2), 2002 (2), 2003 (2), 2004 (2), 2005, 2007 (2), 2008, 2009, 2010, 2012 (2), 2013, 2014, 2015 (2), 2016, 2018, 2020, 2021 (2), 2023.

PJR6 *IEEE Transactions on Communications*: 2001, 2014.

PJR7 *IEEE Journal on Selected Areas in Communications*: 2001, 2005, 2017.

PJR8 *IEEE Antennas and Propagation Magazine*: 2001.

PJR9 *International Journal of Wireless Information Networks*: 2001.

PJR10 *IEEE Communications Letters*: 2002 (3).

PJR11 *Wireless Communications and Mobile Computing*: 2002, 2003, 2007, 2008 (3), 2009, 2013, 2018.

PJR12 *IEEE Wireless Communications*: 2003.

PJR13 *ACM Wireless Networks*: 2003.

- PJR14 *IEEE Transactions on Wireless Communications*: 2004, 2008, 2009, 2011, 2012.
- PJR15 *IEE Electronics Letters*: 2004, 2005, 2006.
- PJR16 *IEE Proceedings on Communications*: 2004.
- PJR17 *Computer Communications*: 2004, 2011.
- PJR18 *IEEE Transactions on Broadcasting*: 2005.
- PJR19 *International Journal on Communication Systems*: 2005, 2009.
- PJR20 *IEEE Microwave and Wireless Components Letters*: 2005.
- PJR21 *ETRI Journal*: 2005.
- PJR22 *Revista da Sociedade Brasileira de Telecomunicações*: 2005.
- PJR23 *EURASIP Journal on Applied Signal Processing*: 2006.
- PJR24 *IET Circuits, Devices and Systems*: 2007.
- PJR25 *IEEE Communications Surveys and Tutorials*: 2007, 2013.
- PJR26 *Annals of Telecommunications*: 2007, 2008, 2013 (2).
- PJR27 *Journal of Systems and Software*: 2007.
- PJR28 *Journal of Networks and Computer Applications*: 2008.
- PJR29 *Journal of Communication and Networks*: 2008.
- PJR30 *IEEE Antennas and Wireless Propagation Letters*: 2009, 2018.
- PJR31 *Pervasive and Mobile Computing*: 2009.
- PJR32 *IEEE Vehicular Technology Magazine*: 2009
- PJR33 *IET Electronics Letters*: 2010, 2012.
- PJR34 *International Journal of Microwave and Wireless Technologies*: 2011.
- PJR35 *Progress in Biophysics & Molecular Biology*: 2011.
- PJR36 *EURASIP Journal on Wireless Communications and Networking*: 2011, 2013, 2017 (2), 2021.
- PJR37 *International Journal of Antennas and Propagation*: 2012, 2018.
- PJR38 *Telecommunication Systems*: 2013.
- PJR39 *IEEE Journal of Selected Topics in Signal Processing*: 2013.
- PJR40 *IEEE Transactions on Aerospace and Electronic Systems*: 2015, 2018.
- PJR41 *IEEE Transactions on Network and Service Management*: 2015.
- PJR42 *Transport Problems*: 2017.
- PJR43 *IEEE Access*: 2018, 2020.
- PJR44 *IET Microwaves, Antennas & Propagation*: 2021.
- PJR45 *Radio Science Bulletin*: 2022.
- PJR46 *Computer Networks*: 2023.

One has been invited to review papers for international conferences (besides the ones for which one has been a member of the Technical Committee) as follows:

- PCR1 *28<sup>th</sup> European Microwave Conference*, Amsterdam, The Netherlands, Oct. 1998.
- PCR2 *GLOBECOM'98 - IEEE Global Communications Conference*, Sidney, Australia, Nov. 1998.
- PCR3 *ConfTele'99 - II Conferência de Telecomunicações*, Sesimbra, Portugal, Apr. 1999
- PCR4 *XVI Simpósio Brasileiro de Telecomunicações*, Minas Gerais, Brazil, Sep. 1999
- PCR5 *PIMRC'99 - 10<sup>th</sup> IEEE International Symposium on Personal, Indoor and Mobile Radio Communications*, Osaka, Japan, Sep. 1999
- PCR6 *29<sup>th</sup> European Microwave Conference*, Munich, Germany, Oct. 1999.
- PCR7 *GLOBECOM'99 - IEEE Global Communications Conference*, Rio de Janeiro, Brazil, Nov. 1999.
- PCR8 *XVIII Simpósio Brasileiro de Telecomunicações*, Gramado, Brazil, Sep. 2000.
- PCR9 *30<sup>th</sup> European Microwave Conference*, Paris, France, Oct. 2000.
- PCR10 *ConfTele 2001 - III Conferência de Telecomunicações*, Figueira da Foz, Portugal, Apr. 2001.
- PCR11 *ICC 2001 - IEEE International Conference on Communications*, Helsinki, Finland, June 2001.
- PCR12 *XIX Simpósio Brasileiro de Telecomunicações*, Fortaleza, Brazil, Sep. 2001.
- PCR13 *31<sup>st</sup> European Microwave Conference*, London, UK, Sep. 2001.
- PCR14 *GLOBECOM'01 - IEEE Global Communications Conference*, San Antonio, TX, USA, Nov. 2001.
- PCR15 *ICC 2002 - IEEE International Conference on Communications*, New York, NY, USA, Apr. 2002.
- PCR16 *32<sup>nd</sup> European Microwave Conference*, Milan, Italy, Sep. 2002.
- PCR17 *WCNC 2003 – IEEE Wireless Communications Networks Conference*, New Orleans, LA, USA, Mar. 2003.
- PCR18 *ConfTele 2003 - IV Conferência de Telecomunicações*, Aveiro, Portugal, June 2003.
- PCR19 *XX Simpósio Brasileiro de Telecomunicações*, Rio de Janeiro, Brazil, Oct. 2003.
- PCR20 *VTC 2004 Spring - 59<sup>th</sup> IEEE Vehicular Technology Conference*, Milan, Italy, May 2004.
- PCR21 *ICC 2004 - IEEE International Conference on Communications*, Paris, France, June 2004.

- PCR22 *VTC 2005 Spring - 61<sup>st</sup> IEEE Vehicular Technology Conference*, Stockholm, Sweden, May 2005.
- PCR23 *ICECom 2005 - 18<sup>th</sup> International Conference on Applied Electromagnetics and Communications*, Dubrovnik, Croatia, Oct. 2005.
- PCR24 *Second IRPA European Congress on Radiation Protection*, Paris, France, May 2006.
- PCR25 *CSN 2006 - 5<sup>th</sup> IASTED International Conference on Communication Systems and Networks*, Palma de Mallorca, Spain, Aug. 2006.
- PCR26 *WCNC 2007 – IEEE Wireless Communications Networks Conference*, Hong Kong, China, Mar. 2007.
- PCR27 *1<sup>st</sup> WEIRD Workshop on WiMAX, Wireless and Mobility*, Coimbra, Portugal, May 2007.
- PCR28 *SBrT'08 - XXVI Simpósio Brasileiro de Telecomunicações*, Rio de Janeiro, Brazil, Sep. 2008.
- PCR29 *VTC 2010 Spring - 71<sup>st</sup> IEEE Vehicular Technology Conference*, Taipei, Taiwan, May 2010.
- PCR30 *WCNC 2012 - IEEE Wireless Communications and Networking Conference*, Paris, France, Apr. 2012.
- PCR31 *ConfTele 2015 - 10<sup>th</sup> Conference on Telecommunications*, Aveiro, Portugal, Sep. 2015.
- PCR32 *EuCAP 2016 - 10<sup>th</sup> European Conference on Antennas and Propagation*, Davos, Switzerland, Apr. 2016.
- PCR33 *AP-S 2023 - IEEE International Symposium on Antennas and Propagation*, Portland, OR, USA, Jul. 2023

## Annex G

### ***Evaluation of R&D Projects and Institutions***

One has been invited to be part of the following panels for the evaluation of R&D projects:

- AAP1 Mar. 1995: ACTS Programme, European Commission
- AAP2 Mar. 1997: ACTS Programme, European Commission
- AAP3 July 1997: ESPRIT Programme, European Commission
- AAP4 July 1999: IST Programme, European Commission
- AAP5 Nov. 1999: ACTS Programme, European Commission
- AAP6 Nov. 1999: ESPRIT Programme, European Commission
- AAP7 June 2000: IST Programme, European Commission
- AAP8 July 2000: ESPRIT Programme, European Commission
- AAP9 Dec. 2000: IST Programme, European Commission
- AAP10 Mar. 2001: FWF - *Fonds zur Förderung der wissenschaftlichen Forschung* (Austrian Science Fund), Austria
- AAP11 July 2001: IST Programme, European Commission
- AAP12 Dec. 2001: IST Programme, European Commission
- AAP13 Feb. 2002: IST Programme, European Commission
- AAP14 July 2002: IST Programme, European Commission
- AAP15 Oct. 2002: IST Programme, European Commission
- AAP16 May 2003: IST Programme, European Commission
- AAP17 Feb. 2004: SFI (Science Foundation Ireland), Ireland
- AAP18 May 2005: SenterNovem (Ministry of Economic Affairs, Agency for Innovation), The Netherlands
- AAP19 May 2005: IST Programme, European Commission
- AAP20 May 2007: Alberta I. Fund, Canada.
- AAP21 May 2011: ANR - *Agence Nationale de la Recherche* (National Agency for Research), France.
- AAP22 June 2011: ICT Programme, European Commission

- AAP23 Sep. 2011: ICT Programme, European Commission
- AAP24 Feb. 2012: FWO - *Fonds Wetenschappelijk Onderzoek – Vlaanderen* (Research Foundation Flanders), Belgium
- AAP25 July 2012: Academy of Finland, Finland.
- AAP26 July 2012: Marie Curie Programme, European Commission
- AAP27 Sep. 2012: Academy of Finland, Finland.
- AAP28 Oct. 2012: ICT Programme, European Commission
- AAP29 Nov. 2012: K.U. Leuven Research Council, Belgium.
- AAP30 Jan. 2013: Academy of Finland, Finland.
- AAP31 Dec. 2013: ICT Programme, European Commission
- AAP32 Jan. 2014: DFG - *Deutsche Forschungsgemeinschaft* (German Research Foundation), Germany.
- AAP33 May 2014: COST Programme, COST European Council.
- AAP34 Nov. 2014: ICT Programme, European Commission.
- AAP35 Nov. 2014: AAC - *Agencia Andaluza del Conocimiento* (Andalusian Agency for Knowledge), Spain.
- AAP36 Dec. 2014: ICT Programme, European Commission.
- AAP37 Apr. 2015: FWO - *Fonds Wetenschappelijk Onderzoek – Vlaanderen* (Research Foundation Flanders), Belgium
- AAP38 May 2015: AAC - *Agencia Andaluza del Conocimiento* (Andalusian Agency for Knowledge), Spain.
- AAP39 June 2015: MITACS (national organisation funding research and training programs), Canada.
- AAP40 Nov. 2015: H2020 Programme, European Commission.
- AAP41 Dec. 2015: H2020 Programme, European Commission.
- AAP42 Dec. 2015: IRISA, Univ. Rennes, France.
- AAP43 Mar. 2016: DFG - *Deutsche Forschungsgemeinschaft* (German Research Foundation), Germany.
- AAP44 June 2016: COST Programme, COST European Council.
- AAP45 June 2016: FCT – *Fundação para a Ciência e a Tecnologia* (Foundation for Science and Technology), Portugal.
- AAP46 Sep. 2016: DFG - *Deutsche Forschungsgemeinschaft* (German Research Foundation), Germany.
- AAP47 Nov. 2016: H2020 Programme, European Commission.



- AAP48 Dec. 2016: H2020 Programme, European Commission.
- AAP49 June 2017: DFG - *Deutsche Forschungsgemeinschaft* (German Research Foundation), Germany.
- AAP50 Sep. 2017: FNS/FNRS - *Fonds de la Recherche Scientifique* (Fund for Scientific Research), Belgium.
- AAP51 Nov. 2017: H2020 Programme, European Commission.
- AAP52 Nov. 2017: FNS/FNRS - *Fonds de la Recherche Scientifique* (Fund for Scientific Research), Belgium.
- AAP53 Feb. 2018: FWO - *Fonds Wetenschappelijk Onderzoek – Vlaanderen* (Research Foundation Flanders), Belgium.
- AAP54 June 2018: RUDN University, Moscow, Russia.
- AAP55 June 2018: DFG - *Deutsche Forschungsgemeinschaft* (German Research Foundation), Germany.
- AAP56 June 2018: COST Programme, COST European Council.
- AAP57 July 2018: FWO - *Fonds Wetenschappelijk Onderzoek – Vlaanderen* (Research Foundation Flanders), Belgium
- AAP58 Sep. 2018: FNS/FNRS - *Fonds de la Recherche Scientifique* (Fund for Scientific Research), Belgium.
- AAP59 Oct. 2018: DFG - *Deutsche Forschungsgemeinschaft* (German Research Foundation), Germany.
- AAP60 Nov. 2018: NSERC - Natural Sciences and Engineering Research Council, Canada.
- AAP61 Feb. 2019: DFG - *Deutsche Forschungsgemeinschaft* (German Research Foundation), Germany.
- AAP62 June 2019: FCT – *Fundação para a Ciência e a Tecnologia* (Foundation for Science and Technology), Portugal.
- AAP63 Sep. 2019: FNS/FNRS - *Fonds de la Recherche Scientifique* (Fund for Scientific Research), Belgium.
- AAP64 Dec. 2019: Science Fund of the Republic of Serbia, Serbia.
- AAP65 Feb. 2020: COST Programme, COST European Council.
- AAP66 May 2020: FNS/FNRS - *Fonds de la Recherche Scientifique* (Fund for Scientific Research), Belgium.
- AAP67 June 2020: DFG - *Deutsche Forschungsgemeinschaft* (German Research Foundation), Germany.
- AAP68 Sep. 2020: H2020 Programme, European Commission.

- AAP69 Dec. 2020: RUDN University, Moscow, Russia.
- AAP70 Jan. 2021: Academy of Finland, Finland.
- AAP71 Feb. 2021: DFG - *Deutsche Forschungsgemeinschaft* (German Research Foundation), Germany.
- AAP72 May 2021: ANI – *Agência Nacional de Inovação* (National Innovation Agency) / AICEP – *Agência para o Investimento e Comércio Externo de Portugal* (Portugal Global Trade & Investment Agency), Portugal.
- AAP73 July 2021: FCT – *Fundação para a Ciência e a Tecnologia* (Foundation for Science and Technology), Portugal.
- AAP74 Sep. 2021: FNS/FNRS - *Fonds de la Recherche Scientifique* (Fund for Scientific Research), Belgium.
- AAP75 Jan. 2022: Academy of Finland, Finland.
- AAP76 Apr. 2022: DFG - *Deutsche Forschungsgemeinschaft* (German Research Foundation), Germany.
- AAP77 May 2022: FFG - *Österreichische Forschungsförderungsgesellschaft* (Austrian Research Promotion Agency), Austria.
- AAP78 July 2022: COST Programme, COST European Council.
- AAP79 Sep. 2022: FNS/FNRS - *Fonds de la Recherche Scientifique* (Fund for Scientific Research), Belgium.
- AAP80 Mar. 2023: ANI – *Agência Nacional de Inovação* (National Innovation Agency), Portugal.
- AAP81 Apr. 2023: DFG - *Deutsche Forschungsgemeinschaft* (German Research Foundation), Germany.
- AAP82 May 2023: FFG - *Österreichische Forschungsförderungsgesellschaft* (Austrian Research Promotion Agency), Austria.
- AAP83 May 2023: Horizon Europe Programme, European Commission.
- AAP84 July 2023: FCT – *Fundação para a Ciência e a Tecnologia* (Foundation for Science and Technology), Portugal.
- AAP85 Sep. 2023: FNS/FNRS - *Fonds de la Recherche Scientifique* (Fund for Scientific Research), Belgium.
- AAP86 Oct. 2023: DFG - *Deutsche Forschungsgemeinschaft* (German Research Foundation), Germany.

One has been invited to be part of the following panels for the evaluation of R&D in institutions:

AAI1 Nov. 2013: Univ. Oulu, Oulu, for Univ. Oulu RAE 2013 (Research Assessment Evaluation), Finland.

AAI2 Jan. 2014: IEMN - *Institut d'Electronique, de Microélectronique et de Nanotechnologie* (Institute for Electronics, Microelectronics and Nanotechnologies), Lille, for AERES - *Agence d'Évaluation de la Recherche et de l'Enseignement Supérieur* (Agency for the Evaluation of Research and Higher Education), France.

AAI3 Feb. 2015: CRC (Collaborative Research Centre) at Technical University of Dresden, Dresden, for DFG - *Deutsche Forschungsgemeinschaft* (German Research Foundation), Germany.



## Annex H

### ***Participation in Theses Committees and Others***

One has been invited to be part of the following evaluation committees of *Habilitation* Theses:

- ECH1 Dr. Néji Youssef (*Habilitation Universitaire*), École Supérieure de Communications de Tunis, Tunis, Tunisia, June 2004.
- ECH2 Dr. Laurent Clavier (*Habilitation à Diriger des Recherches*), Université Lille I Sciences et Technologies, Lille, France, Nov. 2009.
- ECH3 Dr. Yves Lostanlen (*Habilitation à Diriger des Recherches*), Université Rennes I, Rennes, France, Dec. 2009.
- ECH4 Dr. Olivier Berder (*Habilitation à Diriger des Recherches*), Université Rennes I, Lannion, France, Dec. 2012.
- ECH5 Dr. Guillaume Villemaud (*Habilitation à Diriger des Recherches*), Université Claude Bernard Lyon I – INSA, Lyon, France, Dec. 2013.
- ECH6 Dr. Mohamed Ayadi (*Habilitation Universitaire*), École Supérieure de Communications de Tunis, Tunis, Tunisia, Nov. 2017.

One has been invited to be part of the following evaluation committees for the selection/evaluation of candidates to academic positions:

- CCP1 Coordinating Professor, Polytechnic Institute, Escola Superior de Tecnologia e Gestão, Leiria Polytechnic Institute, Leiria, Portugal, June 2007.
- CCP2 Tenure Track, Faculty of Technology, University of Oulu, Oulu, Finland, May 2013.
- CCP3 Professor, Faculty of Information Technology and Electrical Engineering, University of Oulu, Oulu, Finland, Mar. 2016.
- CCP4 Docent, Faculty of Information Technology and Electrical Engineering, University of Oulu, Oulu, Finland, Nov. 2018.
- CCP5 Professor, Faculty of Information Technology and Electrical Engineering, University of Oulu, Oulu, Finland, July 2019.

CCP6 Assistant Professor, Faculty of Engineering, University of Porto, Porto, Portugal, Nov. 2021.

CCP7 Professor, University of York, York, United Kingdom, Aug. 2023.

One has been invited to be part of the following evaluation committees of Ph.D. Theses:

- ECP1 Cipriano T. Lomba, *Optical Communications in Free Space for Indoor Environments: Modelling, Simulation and Optimisation of the Optical Channel* (in Portuguese), University of Aveiro, Aveiro, Portugal Nov. 1997.
- ECP2 Aleandro S. Macedo, *Antenna Sector-Time Division Multiple Access System for Indoor Wireless Communications*, University of Toronto, Toronto, Canada, Jan. 1998.
- ECP3 Samuel Betrencourt, *Characterisation of the Propagation Channel in Vehicle and Train Tunnels* (in French), University of Lille, Lille, France, Jan. 2000.
- ECP4 Henrik Börjesson, *Radio Wave Propagation in Narrow Environments. Measurements and Models.*, Lund University, Lund, Sweden, Mar. 2000.
- ECP5 Mohamed T. Missaoui, *Study on Densification Techniques in Mobile Cellular Radio Networks* (in French), University of Tunis El Manar, Tunis, Tunisia, Apr. 2004.
- ECP6 Wim A. Th. Kotterman, *Characterisation of Mobile Radio Channels for Small Multi-Antennas Terminals*, Aalborg University, Aalborg, Denmark, July 2004.
- ECP7 Marija Jevrosimovic, *Channel Modelling and Smart Antenna Performance Analysis for UMTS*, Technical University of Eindhoven, Eindhoven, The Netherlands, Oct. 2005.
- ECP8 Hung T. Nguyen, *Multiple Antenna Systems for Mobile Terminals*, Aalborg University, Aalborg, Denmark, Nov. 2005.
- ECP9 Jari Salo, *Statistical Analysis of the Wireless Propagation Channel and its Mutual Information*, Helsinki University of Technology, Helsinki, Finland, July 2006.
- ECP10 Nuno M.B. Souto, *Turbo-Processing Techniques for WCDMA Systems*, IST, UTL, Lisbon, Portugal, Sep. 2006.
- ECP11 Mohamed Ayadi, *Prediction Mechanisms for Propagation via Learning Techniques* (in French), University of Chartage, Tunis, Tunisia, Feb. 2007.
- ECP12 Attaphongse Taparugssanagorn, *Evaluation of MIMO Radio Channel Characteristics from TDM-switched MIMO Channel Sounding*, Oulu University, Oulu, Finland, Dec. 2007.

- ECP13 Paulo Torres, *Iterative Channel Coding and Decoding Techniques and Detection for High Data Rate Mobile Communications* (in Portuguese), IST, UTL, Lisbon, Portugal, Feb. 2008
- ECP14 Mario Garcia Lozano, *Contribution to Wireless Access Optimisation and Dynamic Enhancement of WCDMA Networks*, Polytechnic University of Catalonia, Barcelona, Spain, Jan. 2009.
- ECP15 Fernando Almeida, *Creation of Value with Open Source Software in the Telecommunications Field*, University of Porto, Porto, Portugal, Mar. 2010.
- ECP16 Antonino Petrolino, *Development of Efficient and Accurate SISO and MIMO Multipath Fading Channel Simulators*, IST, UTL, Lisbon, Portugal, June 2011.
- ECP17 Timo Smura, *Techno-Economic Modelling of Wireless Network and Industry Architectures*, Aalto University, Helsinki, Finland, Nov. 2011.
- ECP18 Wim Foubert, *Design and Evaluation of Channel Models for DSL Applications*, Free University of Brussels (VUB), Brussels, Belgium, Nov. 2011.
- ECP19 Joel Paulo, *New Techniques for Estimation of Acoustical Parameters*, IST, UTL, Lisbon, Portugal, Apr. 2012.
- ECP20 Lara Traver Sebastià, *Real-Time Detection and Classification Algorithms for Body-Centred Systems*, Polytechnic University of Valencia, Valencia, Spain, Apr. 2012.
- ECP21 Beatriz Lorenzo Veiga, *New Networking Paradigms for Future Multihop Cellular Systems*, Oulu University, Oulu, Finland, May 2012.
- ECP22 Hernan Cordova, *Modelling and Optimization of Algorithms for Multiuser Multicarrier Systems*, Free University of Brussels (VUB), Brussels, Belgium, July 2012.
- ECP23 Patrick Kwadwo Agyapong, *Economic Incentives in Content-Centric Networking: Implications for Protocol Design and Public Policy*, Carnegie Mellon University, Pittsburgh, PA, USA, Apr. 2013.
- ECP24 Thomas R. Casey, *Evolution of wireless access provisioning. Understanding and managing value system structures and dynamics*, Aalto University, Helsinki, Finland, June 2013.
- ECP25 Paul Ferrand, *Cooperative Communications Body Area Networks* (in French), INSA, Lyon, France, June 2013.
- ECP26 Pedro Pinheiro, *Proposal and Study of Solutions for Routing Optimisation in Mobile Networks Environments* (in Portuguese), University of Coimbra, Coimbra, Portugal, Oct. 2013.

- ECP27 Thomas Michael Bohnert, *Advancing Measurement-based Admission Control*, University of Coimbra, Coimbra, Portugal, Oct. 2013.
- ECP28 Fernando Pachón, *Theoretical and Experimental Analysis of Medium Wave Electromagnetic Radiation, Characterising the Levels and Oscillations, and Evaluating their Dosimetric Implication in the Human Body* (in Spanish), University of Extremadura, Cáceres, Spain, May 2014.
- ECP29 Zeinab Mhanna, *Analysis and Modelling of the Radio Channel in an Ultra Wideband Backscattering based RFID System*, Télécom ParisTech, Paris, France, July 2014.
- ECP30 Ivo Sousa, *MIMO Techniques in High Capacity Wireless Communication Systems*, IST, UTL, Lisbon, Portugal, Dec. 2014.
- ECP31 Olga Galinina, *Analytical Performance Evaluation of Cooperative and Multi-Radio Concepts in Emerging Wireless Networks*, Tampere University of Technology, Tampere, Finland, May 2015.
- ECP32 Leyre Azpilicueta Fernández de las Heras, *Characterization of Wireless Propagation in Complex Indoor Environments*, Public University of Navarra, Pamplona, Spain, June 2015.
- ECP33 Michail Katsigiannis, *Techno-economics of radio access networks: case Finland*, Aalto University, Helsinki, Finland, Oct. 2015.
- ECP34 Maria Kangas, *Stability Analysis of New Paradigms in Wireless Networks*, Oulu University, Oulu, Finland, Jan. 2017.
- ECP35 Antti Roivainen, *Three-Dimensional Geometry-Based Radio Channel Model: Parametrization and Validation at 10 GHz*, Oulu University, Oulu, Finland, May 2017.
- ECP36 Carlos Mendes, *A wearable dual-mode printed antenna for body-centric applications*, IST, UL, Lisbon, Portugal, Oct. 2017.
- ECP37 Alireza Shams Shafigh, *New Networking Paradigms for Future Wireless Networks*, Oulu University, Oulu, Finland, Apr. 2018.
- ECP38 Luis Diez, *Reducing the exposure to electro-magnetic fields in heterogeneous networks: design and analysis*, University of Cantabria, Santander, Spain, May 2018.
- ECP39 Carlos Andreu Estellés, *UWB Radio Channel and Diversity Characterisation for Wireless Implanted Devices*, Polytechnic University of Valencia, Valencia, Spain, Sep. 2018.



- ECP40 Diego K.N. Silva, *Propagation Model for Mixed Paths Using Dyadic Green's Functions: A Case Study for City-River-Forest Path*, Federal University of Pará, Belém, Brazil, Nov. 2018.
- ECP41 Kryštof Zeman, *Modelling of mm Wave Propagation Channels for Off-Body Communication Scenarios*, Brno University of Technology, Brno, Czech Republic, Sep. 2019.
- ECP42 Danilo B.T. Almeida, *Mathematical Characterisation of Cell-Free Systems* (in Portuguese), Federal University of Campina Grande, Campina Grande, Brazil, Oct. 2021.
- ECP43 Jaspreet S. Walia, *Techno-economic analysis of 5G network slice provisioning for industry verticals*, Aalto University, Helsinki, Finland, Apr. 2022.
- ECP44 Bartosz Bossy, *Energy-Efficient Resource Allocation in OFDM Systems with Computational Awareness*, Poznan University of Technology, Poznan, Poland, June 2022.
- ECP45 Ivana Kovacevic, *Advanced Network Slicing and Computational Offloading for Latency Limited Communications*, Oulu University, Oulu, Finland, Oct. 2022.
- ECP46 Marco Sousa, *Using Artificial Intelligence Techniques for Path Loss Modelling and Performance Improvement in Mobile Networks*, IST, UL, Lisbon, Portugal, June 2023.
- ECP47 Bahram Khan, *Optimization of 5G Second Phase Heterogeneous Radio Access Networks with Small Cells*, University Beira Interior, Covilhã, Portugal, July 2023.
- ECP48 Guojin Zhang, *Channel Characterization and Modelling for Future Wireless Communication Systems*, Aalborg University, Aalborg, Denmark, Sep. 2023.
- ECP49 Usman T. Virk, *Characterizing Multipath Radio Environments for 5G Wireless Systems and Beyond*, Aalto University, Helsinki, Finland, Sep. 2023.

One has been invited to be part of the following evaluation committees of M.Sc. Theses (pre-Bologna Agreement):

- ECM1 Fernando J. Velez, *An Interactive for Micro-Cellular Planning Tool for Mobile Communications Systems in Urban Environments at mm Waves* (in Portuguese), IST, UTL, Lisbon, Portugal, May 1996.
- ECM2 João C. Gil, *Mobile Indoor Radio Channel Measurement System*, University of Coimbra, Coimbra, Portugal, Sep. 1997.
- ECM3 Carl S. Wijting, *Groupwise Multiuser Detection in a Multirate DS-CDMA System*, Technical University of Delft, Delft, The Netherlands, Dec. 1998.

- ECM4 Paulo J.C. Marques, *Propagation Channel Modelling for Wideband Mobile Communications* (in Portuguese), University of Aveiro, Aveiro, Portugal, Dec. 1998.
- ECM5 Luis B. Anunciada, *Antenna Impact on the Propagation Channel in Mobile Communications at mm Waves* (in Portuguese), IST, UTL, Lisbon, Portugal, Apr. 2000.
- ECM6 Telmo R.C.C. Fernandes, *Channel Allocation in Cellular Networks Using Neural Networks and Genetic Algorithms* (in Portuguese), University of Coimbra, Coimbra, Portugal, Dec. 2000.
- ECM7 José E.R.P. Garcia, *Cellular Coverage for Wideband Systems* (in Portuguese), University of Aveiro, Aveiro, Portugal, Feb. 2002.
- ECM8 João P.P. Carmo, *Mobile Communications: Impact of Earth's Relief* (in Portuguese), University of Porto, Porto, Portugal, Mar. 2002.
- ECM9 Filipe R. Alves, *Simulation Platform for 4th Generation Cellular Systems* (in Portuguese), University of Aveiro, Aveiro, Portugal, Dec. 2003.
- ECM10 Helder Vidal, *Mobility Management in Multi-Access Environments*, IST, UTL, Lisbon, Portugal, Nov. 2005.
- ECM11 Patrícia Eusébio, *Multicast in a UMTS Network* (in Portuguese), ISCTE, Lisbon, Portugal, Dec. 2005.
- ECM12 João Nascimento, *A Study on Range-Data Performance of UWB Wireless Communications*, IST, UTL, Lisbon, Portugal, Sep. 2007
- ECM13 Sofia M.A. Vieira, *Acoustical Experimental Characterisation in Classrooms* (in Portuguese), IST, UTL, Lisbon, Portugal, Nov. 2008

# Annex I

## ***Training Courses and Ph.D. Schools Organisation and Lecturing***

Within the framework of Post-Graduate Training Courses and Ph.D. Training Schools, the following courses have been organised and lectured:

- TCS1 Feb. 1987 - Course on “Microwaves”, to OGMA technical staff, by IST: module lectured on *Slot Antennas*.
- TCS2 Nov. 1987 - Course on “Electronic and Digital Communications”, open to industry, by ADIST: module lectured on *Optical Fibres*.
- TCS3 Oct. 1988 - Course on “Optical Communication Systems”, to CTT technical staff, by FUNDETEC: module lectured on *Optical Fibres*.
- TCS4 June 1991 - Course on “Radio Propagation and Mobile Communications”, to SISTEL technical staff, by ADIST: modules lectured on *Propagation over the Earth, Fixed, Satellite and Mobile Links, Broadcast and Mobile Communications*.
- TCS5 June 1995 - Course on “Cellular Planning in Mobile Communications”, to ICP technical staff, by IT: organisation and lecturing of the whole course.
- TCS6 Oct. 1995 - Course on “GSM/DSC and Migration Towards Third Generation Systems”, open to industry, by IT, in collaboration with Prof. Hamid Aghvami (King’s College London, London, UK): organisation of the course, module lectured on *Propagation Models and Cellular Planning*.
- TCS7 June 1996 - Course on “GSM/DSC and Migration Towards Third Generation Systems”, open to industry, by IT, in collaboration with Prof. Hamid Aghvami (King’s College London, London, UK): organisation of the course, module lectured on *Propagation Models and Cellular Planning*.
- TCS8 June 1996 - Course on “Modern Technologies in Telecommunications”, to Warsaw Technical University (Warsaw, Poland) teaching assistants, within an EC TEMPUS project (Modern Technologies in Telecommunications for New Polish Educational Systems): module lectured on *Antennas and Applied Electromagnetics*.
- TCS9 June 1997 - Course on “Modern Technologies in Telecommunications”, to Lodz Technical University (Lodz, Poland) teaching assistants, within an EC TEMPUS

- project (Modern Technologies in Telecommunications for New Polish Educational Systems): module lectured on *Antennas and Applied Electromagnetics*.
- TCS10 Nov. 1997 - Course on “CDMA for Wireless Communication Systems”, open to industry, by IT, in collaboration with Prof. Ramjee Prasad (Delft Technical University, Delft, The Netherlands): organisation of the course.
- TCS11 Dec. 1997 - Course on “*Mobile Communications Network Planning*”, to PALOPS operators’ technical staff, by IST: lecturing of the course.
- TCS12 Apr. 1998 - Course on “Mobility Applications and Services”, open to industry, by King’s College, organised by Prof. Hamid Aghvami (King’s College London, London, UK): module lectured on *Propagation Models and Cellular Planning*.
- TCS13 July 1998 - Course on “CDMA Personal Communication Networks”, open to industry, by IT, in collaboration with Prof. Elvino Sousa (Toronto University, Toronto, Canada): organisation of the course.
- TCS14 Nov. 1998 - Course on “Mobile Digital Communications Systems”, open to industry, by Polytechnic University of Valencia, organised by Prof. Narcis Cardona (Polytechnic University of Valencia, Valencia, Spain): module lectured on *Health and Antennas Issues of Mobile Communications Applied to GSM*.
- TCS15 July 1999 - Course on “UMTS/IMT-2000”, open to industry, by IT, in collaboration with Prof. Hamid Aghvami (King’s College London, London, UK): organisation of the course.
- TCS16 Apr. 2000 - Course on “UMTS/IMT-2000”, open to industry, by IT, in collaboration with Prof. Hamid Aghvami (King’s College London, London, UK): organisation of the course.
- TCS17 June 2000 - Course on “UMTS/IMT-2000”, open to industry, by IT, in collaboration with Prof. Hamid Aghvami (King’s College London, London, UK): organisation of the course.
- TCS18 Oct. 2000 - Course on “Capturing the value of UMTS and Driving the New Economy”, open to industry, by IT, in collaboration with Bosco Fernandes (Siemens, Munich, Germany): organisation of the course.
- TCS19 Nov. 2000 - Course on “Protection against Radiation”, open to industry, by SPPCR: modules lectured on *Electromagnetic Radiation from Mobile Phones*.
- TCS20 Dec. 2000 - Course on “Network Planning in UMTS”, to ICP technical staff, by IST: co-organisation of the course, modules lectured on *Cellular Planning and Services and Applications*.

- TCS21 Nov. 2001 - Course on “Protection against Radiation”, open to industry, by SPPCR: modules lectured on *Electromagnetic Radiation from Mobile Phones*.
- TCS22 Apr. 2002 - Course on “Radiologic Protection”, open to health technicians, by ESTeS-Lisbon: modules lectured on *Electromagnetic Radiation from Mobile Phones*.
- TCS23 Feb. 2003 - Course on “*Mobile Communications: General Aspects, GSM and UMTS*”, to ICP-ANACOM technical staff, by IST: lecturing of the course.
- TCS24 June 2003 - Summer School on “Wireless Internet: network architectures, quality of service, services and applications”, to Ph.D. students, by IST, within an EC project (ANWIRE): organisation of the school.
- TCS25 Feb. 2004 - Course on “Exposure to Electromagnetic Radiation in Mobile Communications”, open to industry, by IT: organisation of the course, modules lectured on *Mobile Communications Systems* and *Exposure to Electromagnetic Radiation*.
- TCS26 Mar. 2004 - Course on “Mobile Communications in Public Administration”, to public administration technical staff, by INA: module lectured on *Technologies for Mobile Data Communications*.
- TCS27 May 2004 - Course on “*Aspects of Radio Network Planning in Wideband Mobile Cellular Systems, with Application to UMTS*”, open to industry, by University of Oulu, organised by Prof. Ian Opperman (University of Oulu, Oulu, Finland): lecturing of the course.
- TCS28 Sep. 2004 - Course on “Broadband Wireless Communications”, open to industry, by CTTC, organised by Prof. Miguel Lagunas (CTTC, Barcelona, Spain): module lectured on *Channel Characterisation for Adaptive Antennas and Fading in Wideband Mobile Cellular Systems, with Application to UMTS*.
- TCS29 Oct. 2004 - Course on “Exposure to Electromagnetic Radiation in Mobile Communications”, to DGS technical staff, by IT: organisation of the course, modules lectured on *Mobile Communications Systems* and *Exposure to Electromagnetic Radiation*.
- TCS30 Feb. 2005 - Course on “*A Perspective on the Evolution Towards the 4<sup>th</sup> Generation of Mobile and Wireless Systems, Focused on Radio Systems and Networks*”, open to industry, by Tel Aviv University, organised by Dr. Arie Reichman (Tel Aviv University, Tel Aviv, Israel): lecturing of the course.
- TCS31 May 2005 - Course on “Exposure to Electromagnetic Radiation in Mobile Communications”, to ARS-Setúbal technical staff, by IT: organisation of the course,

- modules lectured on *Mobile Communications Systems* and *Exposure to Electromagnetic Radiation*.
- TCS32 Oct. 2005 - Course on “Exposure to Electromagnetic Radiation in Mobile Communications”, to ARS-Setúbal technical staff, by IT: organisation of the course, modules lectured on *Mobile Communications Systems* and *Exposure to Electromagnetic Radiation*.
- TCS33 Oct. 2005 - Course on “Mobile Communications Technologies”, to public administration technical staff, by INA: module lectured on *Technologies for Mobile Data Communications*.
- TCS34 Nov. 2005 - Course on “Exposure to Electromagnetic Radiation in Mobile Communications”, to ARS-LisbonVT technical staff, by IT: organisation of the course, modules lectured on *Mobile Communications Systems* and *Exposure to Electromagnetic Radiation*.
- TCS35 Feb. 2006 - Course on “*Exposure to Electromagnetic Radiation in Mobile Communications*”, to environmental health technicians, by ESB - Porto Catholic University: lecturing of the course.
- TCS36 May 2006 - Course on “Communications and Security”, to public administration technical staff, by INA: module lectured on *Technologies for Wireless Networks*.
- TCS37 July 2006 - Course on “Graduate Studies on Municipal Safety Management”, to PSP police officers, by ISCPSP: module lectured on *Information Technologies and Mobile Communications*.
- TCS38 Nov. 2006 - Course on “Exposure to Electromagnetic Radiation in Mobile Communications”, to Ministries of Health and of Education technical staff, by IT: organisation of the course, modules lectured on *Mobile Communications Systems* and *Exposure to Electromagnetic Radiation*.
- TCS39 Dec. 2006 - Course on “Exposure to Electromagnetic Radiation in Mobile Communications”, to Ministries of Health and of Education technical staff, by IT: organisation of the course, modules lectured on *Mobile Communications Systems* and *Exposure to Electromagnetic Radiation*.
- TCS40 July 2007 - Course on “Graduate Studies on Municipal Safety Management”, to PSP police officers, by ISCPSP: module lectured on *Information Technologies and Mobile Communications*.

- TCS41 Sep. 2007 - Course on “UMTS/HSDPA & Mobile WiMAX”, open to industry, by IT, in collaboration with Prof. Hamid Aghvami (King’s College London, London, UK): organisation of the course.
- TCS42 Nov. 2007 - Course on “Exposure to Electromagnetic Radiation in Mobile Communications”, open to industry, by IT: organisation of the course, modules lectured on *Mobile Communications Systems* and *Exposure to Electromagnetic Radiation*.
- TCS43 Mar. 2008 - Course on “Next-Generation Broadband Networks”, open to industry, by IT, in collaboration with Prof. Benny Bing (Georgia Institute of Technology, Atlanta, GA, USA): organisation of the course.
- TCS44 May 2008 - Course on “Exposure to Electromagnetic Radiation in Mobile Communications”, to Ministry of Health technical staff, by IT: organisation of the course, modules lectured on *Mobile Communications Systems* and *Exposure to Electromagnetic Radiation*.
- TCS45 Dec. 2008 - Course on “Communications and Security”, to public administration technical staff, by INA: module lectured on *Technologies for Wireless Networks*.
- TCS46 Apr. 2009 - Course on “Exposure to Electromagnetic Radiation in Mobile Communications”, to Ministries of Health, Justice and Environment technical staff, by IT: organisation of the course, modules lectured on *Mobile Communications Systems* and *Exposure to Electromagnetic Radiation*.
- TCS47 May 2009 - Course on “Communications and Security”, to public administration technical staff, by INA: module lectured on *Technologies for Wireless Networks*.
- TCS48 Oct. 2009 - Course on “Training in Telecommunications Systems for High Schools (*FORTES - Formação em Sistemas de Telecomunicações para o Ensino Secundário*)”, to high school Physics teachers, by IST/IT: organisation of the course, modules lectured on *Introduction to Telecommunications Systems* and *Mobile Communications Systems*.
- TCS49 Nov. 2009 - Course on “Training in Telecommunications Systems for High Schools (*FORTES - Formação em Sistemas de Telecomunicações para o Ensino Secundário*)”, to high school Physics teachers, by IST/IT: organisation of the course, modules lectured on *Introduction to Telecommunications Systems* and *Mobile Communications Systems*.
- TCS50 Jan. 2010 - Course on “Training in Telecommunications Systems for High Schools (*FORTES - Formação em Sistemas de Telecomunicações para o Ensino Secundário*)”,

- to high school Physics teachers, by IST/IT: organisation of the course, modules lectured on *Introduction to Telecommunications Systems* and *Mobile Communications Systems*.
- TCS51 Mar. 2010 - Course on “Exposure to Electromagnetic Radiation in Mobile Communications”, to Ministries of Health, and Environment and Municipalities technical staff, by IT: organisation of the course, modules lectured on *Mobile Communications Systems* and *Exposure to Electromagnetic Radiation*.
- TCS52 Oct. 2010 - Course on “Training in Telecommunications Systems for High Schools (*FORTES - Formação em Sistemas de Telecomunicações para o Ensino Secundário*)”, to high school Physics teachers, by IST/IT: organisation of the course, modules lectured on *Introduction to Telecommunications Systems* and *Mobile Communications Systems*.
- TCS53 Nov. 2011 - Course on “Training in Telecommunications Systems for High Schools (*FORTES - Formação em Sistemas de Telecomunicações para o Ensino Secundário*)”, to high school Physics teachers, by IST/IT: organisation of the course, modules lectured on *Introduction to Telecommunications Systems* and *Mobile Communications Systems*.
- TCS54 Nov. 2011 - Course on “Seminars on Telecommunications”, to Ph.D. students, by Bologna University, organised by Prof. Roberto Verdone (Bologna University, Bologna, Italy): module lectured on *A Perspective into the Networks of the Future*.
- TCS55 Apr. 2013 - Course on “Mobile Communications Systems”, to police officers, by Ministry of Internal Affairs, organised by Ministry of Internal Affairs (Maputo, Mozambique): lecturing of the course.
- TCS56 Sep. 2013 - Summer School on “Green Wireless Communications”, to Ph.D. students, by Poznan Technical University, organised by Prof. Hanna Bogucka (Poznan Technical University, Poznan, Poland), within an EC project (NEWCOM# NoE): module lectured on *Green Cellular Networks*.
- TCS57 Apr. 2014 - Summer School on “SAR & EM Exposure in Wireless Networks”, to Ph.D. students, by Telecom ParisTech, organised by Prof. Alain Sibille (Telecom ParisTech, Paris, France), within EC projects (Joint COST IC1004 / LEXNET): module lectured on *BANs, New Usages and the Human Exposure Challenge*.
- TCS58 Apr. 2015 - Summer School on “From HetNets to Cloud Radio Access Network”, to Ph.D. students, by University of Luxembourg, organised by Prof. Symeon Chatzinotas



- (University of Luxembourg, Luxembourg, Luxembourg), within an EC project (COST IC1004): module lectured on *Virtualisation of Radio Resources*.
- TCS59 July 2015 - Summer School on “Low EMF Communications and Networking”, to Ph.D. students, by University of Cantabria, organised by Prof. Ramón Aguero (University of Cantabria, Santander, Spain), within an EC project (LEXNET): module lectured on *BANs, New Usages and the Human Exposure Challenge*.
- TCS60 Mar. 2017 - Spring School on “Antennas and Propagation Modelling for Body Environment Communications”, to Ph.D. students, by Technical University of Dresden, organised by Prof. Dirk Plettemeier (Technical University of Dresden, Dresden, Germany), within EC projects (WIBEC/COST-IRACON): module lectured on *Static & Dynamic On- and Off-Body Propagation Channel Modelling*.
- TCS61 Apr. 2017 - Course on “Railway Mobile Communications Systems: from GSM-R to LTE-R”, to Thales technical staff, by IST: lecturing of the course.
- TCS62 Oct. 2017 - International School on “Applied Probability Theory & Communications Technologies”, to Ph.D. students, by RUDN University, organised by Prof. Konstantin Samouylov (RUDN University, Moscow, Russia): module lectured on *An Approach to Cloud and Virtual Radio Access Networks*.
- TCS63 Mar. 2018 - Winter School on “Beyond 5G Networks operating in the Millimetre Wavebands enabled by Joint Analogue-digital Signal Processing”, to Ph.D. students, by IST, organised by Profs. Fernando J. Velez (University of Beira Interior, Covilhã, Portugal), Ana Garcia Armada (University Carlos III, Madrid, Spain) and Rui Dinis (New University of Lisbon, Lisbon, Portugal), within an EC project (COST-IRACON) and IEEE VTS: module lectured on *From 5G / B5G Scenarios to Body Area Networks Channel Models*.
- TCS64 Oct. 2018 – 2<sup>nd</sup> International School on “Enabling Technologies, Applications and Methods for Emerging 5G Systems”, to Ph.D. students, by IST: co-organisation with Prof. Konstantin Samouylov (RUDN University, Moscow, Russia), module lectured on *An Approach to Cloud and Virtual Radio Access Networks*.
- TCS65 Nov. 2018 – Lectures of the International Scientific Committee, to Ph.D. students, by RUDN University, organised by Prof. Konstantin Samouylov (RUDN University, Moscow, Russia): module lectured on *An Approach to Cloud and Virtual Radio Access Networks*.
- TCS66 Nov. 2018 – Course on Digital Market and Telecommunications Regulation, to INCM Mozambique Board, by UCP – Portuguese Catholic University, organised by Prof.

- João Confraria (UCP – Portuguese Catholic University, Lisbon, Portugal): module lectured on *Services and Networks from 4G to 5G*.
- TCS67 Oct. 2019 - Training School on “Network Models, Architectures and Applications for 5G”, to Ph.D. students, by RUDN University, co-organisation with Prof. Konstantin Samouylov (RUDN University, Moscow, Russia) within the COST-IRACON Action: module lectured on *An Approach to Cloud and Virtual Radio Access Networks*.
- TCS68 Nov. 2019 – 3<sup>rd</sup> International School on “Enabling Technologies, Applications and Methods for Emerging 5G Systems”, to Ph.D. students, by IST: co-organisation with Prof. Konstantin Samouylov (RUDN University, Moscow, Russia), module lectured on *An Approach to Cloud and Virtual Radio Access Networks*.
- TCS69 Oct. 2020 – Ph.D. Days Workshop on “How to Prepare an Excellent Presentation (or at Least an Acceptable One)?”, to Ph.D. students, by IST: lecturing of the workshop.
- TCS70 Sep. 2021 - Course on “Visions on Information and Communication Technologies”, to Vieira de Almeida technical staff, by Técnico+: organisation of the course, modules lectured on *Mobile Communications Systems and Networks* and *Services and Applications*.
- TCS71 Oct. 2021 - Course on “5G and IoT: from Technology to Applications”, open to industry, by Técnico+: organisation of the course, modules lectured on *5G Technology* and *Characteristics of Services and Applications*.
- TCS72 Nov. 2021 - Ph.D. Days Workshop on “How to Prepare an Excellent Presentation (or at Least an Acceptable One)?”, to Ph.D. students, by IST: lecturing of the workshop.
- TCS73 Jan. 2022 - Course on “5G and IoT: from Technology to Applications”, to ANACOM, by Técnico+: organisation of the course, modules lectured on *5G Technology* and *Characteristics of Services and Applications*.
- TCS74 Nov. 2022 - Ph.D. Days Workshop on “How to Prepare an Excellent Presentation (or at Least an Acceptable One)?”, to Ph.D. students, by IST: lecturing of the workshop.
- TCS75 Jan. 2023 - Course on “Data: sources, transmissions, processing and analysis”, open to industry, by MBA @ ISEG-Univ. Lisbon: organisation of the course, modules lectured on *5G & IoT* and *Services and Applications*.
- TCS76 Jan. 2023 - Tutorial on “How to Prepare an Excellent Presentation (or at Least an Acceptable One)?”, to Ph.D. students and researchers, by COST INTERACT, at meeting in Dubrovnik, Croatia: lecturing of the tutorial.
- TCS77 May 2023 - Course on “RFIF: Radio Installations”, open to industry, by Técnico+: organisation of the course, modules lectured on *Signal Propagation*.

- TCS78 June 2023 – 3<sup>rd</sup> Training School “DolCom 2023 Summer School & Workshop on Radio Communications in the Dolomites”, to Ph.D. students, by COST INTERACT: co-organisation with Prof. Roberto Verdone (University Bologna, Bologna, Italy), module lectured on *Body Area Networks: from Applications to Radio Channel Models*.
- TCS79 Nov. 2023 – 5<sup>th</sup> Wireless Silk Road International Lecture Series, to Ph.D. students, by Beijing Jiaotong University, organised by Prof. Ke Guan (Beijing Jiaotong University Beijing, China), modules lectured on *Visions of 6G from the User’s Viewpoint*, *Perspectives on Railway Communications*, *Body Area Networks*, and *How to Write a Thesis and a Paper, and how to Present it*.
- TCS80 Nov. 2023 – 5<sup>th</sup> Wireless Silk Road International Lecture Series, to Ph.D. students, by Shanghai Tongji University, organised by Prof. Xuefeng Yin (Shanghai Tongji University, Shanghai, China), modules lectured on *Visions of 6G from the User’s Viewpoint* and *Evolution from 5G to 6G Networks and Systems*.
- TCS81 Nov. 2023 - Ph.D. Days Workshop on “*How to Prepare an Excellent Presentation (or at Least an Acceptable One)?*”, to Ph.D. students, by IST: lecturing of the workshop.



## **Annex J**

### ***Organisation of Talks and Seminars***

One has organised the following talks and seminars:

- OTS1 May. 1993: 1<sup>st</sup> Seminar on Mobile Communications, Talk by Morais Sarmiento, Jovito, Paula Farinhas, Rodrigues Soares and Vasco Barreiros (Portugal).
- OTS2 May 1994: 2<sup>nd</sup> Seminar on Mobile Communications, Talk by Teresa Sebra, Luis Ferreira, Nuno Silva, Luis Castro, Carlos Machado, Helder Martins and Jorge Aleluia (Portugal).
- OTS3 May. 1995: 3<sup>rd</sup> Seminar on Mobile Communications, Talk by Luisa Mendes, João Mendes Dias, Manuel Soares, Paulo Carvalho and Filipe Proença (Portugal).
- OTS4 May 1996: 4<sup>th</sup> Seminar on Mobile Communications, Talk by António Aleixo. Teresa Sebra, Luis Ferreira, Nuno Silva, Manuel Soares and Leandro Fernandes (Portugal).
- OTS5 May 1997: 5<sup>th</sup> Seminar on Mobile Communications, Talk by Rui de Sá, Paulo Moniz, Fátima Raimondi, Jorge Barriga, Vasco Barreiros and Carlos Arêde (Portugal).
- OTS6 May 1998: 6<sup>th</sup> Seminar on Mobile Communications, Talk by Nuno Gonçalves, Jorge Azevedo, João Mendes Dias and Duarte Lopes (Portugal).
- OTS7 May 1999: 7<sup>th</sup> Seminar on Mobile Communications, Talk by António Ferreira, Ana Domingues, Vasco Barreiros and António Lopes (Portugal).
- OTS8 May 2000: 8<sup>th</sup> Seminar on Mobile Communications, Talk by Luis Peixe, Luis Castel-Branco, Diana Caiado and Luis Sequeira (Portugal).
- OTS9 May 2001: 9<sup>th</sup> Seminar on Mobile Communications, Talk by António Aleixo, Jorge Proença, José Velez and Gerardo Ângelo (Portugal).
- OTS10 May 2002: 10<sup>th</sup> Seminar on Mobile Communications, Talk by Gabriela Marques, Ana Domingues, Judite Reis and Pedro Vasconcelos (Portugal).
- OTS11 May 2003: 11<sup>th</sup> Seminar on Mobile Communications, Talk by José Ferreira, Helder Vidal, Joaquim Croca and José Costa (Portugal).
- OTS12 May 2004: 12<sup>th</sup> Seminar on Mobile Communications, Talk by Jaime Afonso, Luis da Silva, Paulo Glórias and Nuno Bernardo (Portugal).

- OTS13 May 2005: 13<sup>th</sup> Seminar on Mobile Communications, Talk by Rudolfo Correia, Luis Santo, Carlos Caseiro and João Castro (Portugal).
- OTS14 July 2005: IEEE ComSoc Talk by Bixio Rimoldi (Switzerland), on “Cost-Distortion-Optimal Communication via Measure-Matching: Key Ideas and Speculations Concerning Mother Nature”.
- OTS15 May 2006: 14<sup>th</sup> Seminar on Mobile Communications, Talk by Ricardo Dinares, António Araújo, Telmo Silva and António Margato (Portugal).
- OTS16 Oct. 2006: Meshed & Deployable IP Networks, European Technical Workshop.
- OTS17 Oct. 2006: IEEE ComSoc Talk by Hamid Aghvami (United Kingdom), on “Heterogeneous Wireless Access Environment (In the context of end-to-end networking)”.
- OTS18 Feb. 2007: IEEE ComSoc Talk by Ian Oppermann (Australia), on “Optimisation of 3G Networks”
- OTS19 Feb. 2007: IEEE ComSoc Talk by Therese Catanzariti (Australia), on “GPL, MIT, BSD, OSS (and me): Introduction to Open Source”.
- OTS20 May 2007: 15<sup>th</sup> Seminar on Mobile Communications, Talk by Graça Carvalho, Luis Muchaco, Ana Claro and João Cruz (Portugal).
- OTS21 June 2007: IEEE ComSoc Talk by Moe Win (USA), on “Recent Advances in Ultrawide Bandwidth Communications and Networks”.
- OTS22 Sep. 2007: IEEE ComSoc Talk by Homayoun Nikookar (The Netherlands), on “Techniques for Cognitive Radio”.
- OTS23 Oct. 2007: IEEE ComSoc Talk by Benny Bing (USA), on “Next-Generation Wireless Broadband”.
- OTS24 May 2008: 16<sup>th</sup> Seminar on Mobile Communications, Talk by José Vilela, Jaime Afonso, José Remédios and Pedro Lourenço (Portugal).
- OTS25 Sep. 2008: Seminar on Perspectives on Electromagnetic Radiation, Talk by Luís M. Correia, António Tavares and Catarina Freitas (Portugal).
- OTS26 Mar. 2009: IEEE ComSoc Talk by João S. da Silva (Belgium), Luís M. Correia and Guilherme Alves (Portugal), on “Future Internet”.
- OTS27 Apr. 2009: IEEE ComSoc Talk by Pedro Fernandes and João Custódio (Portugal), on “Cisco Self-Defence Networks”.
- OTS28 May 2009: IEEE ComSoc Talk by Gonçalo Carpinteiro (Portugal), on “Mobile Phones on Board”.

- OTS29 May 2009: 17<sup>th</sup> Seminar on Mobile Communications / IEEE ComSoc, Talk by Miguel Henriques, Pedro Tareco, Alexandre Coelho and João Ramos (Portugal).
- OTS30 June 2009: IEEE ComSoc Talk by Anthony Ephremides (USA), on “Cooperation at the Network Level”.
- OTS31 July 2009: IEEE ComSoc Talk by Behnaam Aazhang (USA), on “Context Aware Wireless Networks: A Physical Layer Perspective”.
- OTS32 Dec. 2009: IEEE ComSoc Talk by Marco Serrazina(Portugal), on “Evolution to UMTS HSPA”.
- OTS33 Jan. 2010: IEEE ComSoc Talk by Fernando Luís(Portugal), on “Interconnection among Operators”.
- OTS34 Feb. 2010: IEEE ComSoc Talk by Rui Silva(Portugal), on “Transforming Communications via Software”.
- OTS35 Mar. 2010: IEEE ComSoc Talk by Luis Alveirinho(Portugal), on “New Generation Services and Networks”.
- OTS36 Apr. 2010: IEEE ComSoc Talk by Luís Santo (Portugal), on “LTE – Long Term Evolution, the 4<sup>th</sup> Mobile Generation”.
- OTS37 May 2010: 18<sup>th</sup> Seminar on Mobile Communications / IEEE ComSoc, Talk by Cláudia Queirós, António Vassalo and Ana Claro (Portugal).
- OTS38 June 2010: IEEE ComSoc Talk by J.R. Cruz (USA), on “The Role of Communications Signal Processing in Storage Systems”.
- OTS39 Oct. 2010: IEEE ComSoc Talk by Pedro Vitor (Portugal), on “SIRESP Network– Emergency and Secure Technology for the Future”.
- OTS40 Mar. 2011: IEEE ComSoc Talk by Javan Erfanian (USA), on “Future of Wireless Experience, Technologies & Research”.
- OTS41 Apr. 2011: IEEE ComSoc Talk by Carlos Lages (Portugal), on “Implementing the DTT Network”.
- OTS42 May 2011: 19<sup>th</sup> Seminar on Mobile Communications / IEEE ComSoc, Talk by Paulo Nascimento, Marta Almeida, Hugo Braz and Ivo Henriques (Portugal).
- OTS43 May 2011: IEEE ComSoc Talk by Jaime Afonso (Portugal), on “Spectrum Management: a Scenario for Change”.
- OTS44 May 2011: IEEE ComSoc Talk by Luis Sousa Cardoso (Portugal), on “Telecommunications Network Security and the “pressure point warfare” Doctrine”.
- OTS45 July 2011: IEEE ComSoc Talk by Manuel Barros (Portugal), on “Networks Security and Electronic Communications Services: Changes in Regulation”.

- OTS46 Oct. 2011: IEEE ComSoc Talk by Tad Matsumoto (Japan), on “Iterative Processing for Cooperative Communications Allowing Intra-Link Errors”.
- OTS47 Nov. 2011: IEEE ComSoc Talk by João Gonzalez and Pedro Ferreira (Portugal), on “Business Communications”.
- OTS48 Jan. 2012: IEEE ComSoc Talk by Cláudia Queirós (Portugal), on “LTE”.
- OTS49 Mar. 2012: IEEE ComSoc Talk by Graça Carvalho (Portugal), on “Cloud Computing”.
- OTS50 May 2012: 20<sup>th</sup> Seminar on Mobile Communications / IEEE ComSoc, Talk by Nuno Marques, Nuno Damião, Nuno Cid Ponte (Portugal).
- OTS51 June 2012: IEEE ComSoc Talk by José Vilela (Portugal), on “Small Cells and Heterogeneous Networks”.
- OTS52 Oct. 2012: IEEE ComSoc Talk by Koichi Asatani (Japan), on “Carrier-Grade Networks toward the Future: NGN and its Issues”.
- OTS53 Jan. 2013: IEEE ComSoc Talk by Paulino Corrêa and António Carlos Fernandes (Portugal), on “End-to-End QoS in Mobile Networks”.
- OTS54 Jan. 2013: IEEE ComSoc Talk by José Pascoal (Portugal), on “Over the Top: Threat or Opportunity”.
- OTS55 Mar. 2013: IEEE ComSoc Talk by Fernando Gomes and Nuno Silva (Portugal), on “Smart Grids: Synergies in between Power and Communication Networks”.
- OTS56 May 2013: 21<sup>st</sup> Seminar on Mobile Communications / IEEE ComSoc, Talk by Nuno Bernardo and Nuno Silva (Portugal).
- OTS57 May 2013: IEEE ComSoc Talk by Daniel Kofman (France), on “An integrated view on future information and communication networks and services”.
- OTS58 June 2013: IEEE ComSoc Talk by Luís Santo (Portugal), on “First Learning’s from LTE Rollout & Optimisation. Preparing LTE-Advanced”.
- OTS59 Oct. 2013: IEEE ComSoc Talk by Jorge Carapinha (Portugal), on “Network virtualization – challenges and trends of evolution”.
- OTS60 Dec. 2013: IEEE ComSoc Talk by, Raul Caldeira (Portugal), on “Service Provider SDN”.
- OTS61 May 2014: 22<sup>nd</sup> Seminar on Mobile Communications / IEEE ComSoc, Talk by Miguel Capela, Luis Muchaco, Guilherme Andrade (Portugal).
- OTS62 Feb. 2015: IEEE ComSoc Talk by João Picoito (Portugal), on “Building the future – Evolution beyond Mobile Internet”.
- OTS63 May 2015: 23<sup>rd</sup> Seminar on Mobile Communications, Talk by Pedro Tareco, Luís Lamela and Artur Vargas (Portugal).



- OTS64 May 2016: 24<sup>th</sup> Seminar on Mobile Communications, Talk by Jaime Afonso, Paulo Nascimento and Marco Serrazina (Portugal).
- OTS65 Mar. 2017: Seminar on 5G & IoT, Talk by Taro Eichel, Lothar Walther (Germany), Luís M. Correia and Manuel Ricardo (Portugal).
- OTS66 May 2017: 25<sup>th</sup> Seminar on Mobile Communications, Talk by Luis Santo, Diogo Cortez and Hugo Francisco (Portugal).
- OTS67 Sep. 2017: IEEE ComSoc Talk by Sumit Roy (USA), on “Spectrum Sharing: Scenarios and Opportunities”.
- OTS68 Jan. 2018: Talk by Yuliya Gaidamaka (Russia), on “Mathematical Modelling Issues in Future Multiservice Network”.
- OTS69 Apr. 2018: Talk by Jan Jerabek (Czech Republic), on “Basic Measurements in IP-Based Networks”.
- OTS70 May 2018: Talk by Pawel Kulakowski (Poland), on “Nanoscale Communications”.
- OTS71 May 2018: 26<sup>th</sup> Seminar on Mobile Communications, Talk by Jorge Bonifácio, Guilherme Alves and Paulo Coelho (Portugal).
- OTS72 Sep. 2018: Talk by Marcelo Sampaio de Alencar (Brazil), on “Information Protection for Computer Networks”.
- OTS73 Oct 2018: 12<sup>th</sup> International Workshop on Applied Problems in Theory of Probabilities and Mathematical Statistics.
- OTS74 Oct. 2018: 2<sup>nd</sup> International School on Enabling Technologies, Applications and Methods for Emerging 5G Systems.
- OTS75 Oct. 2018: Workshop on “Bluetooth: Current and Future Perspectives”, Talk by Tomás O’Raghallaigh (Ireland) and Mário S. Nunes (Portugal).
- OTS76 May 2019: 27<sup>th</sup> Seminar on Mobile Communications, Talk by Eng. José Pascoal, Samuel Ferreira and Filipe Rodrigues (Portugal).
- OTS77 Jun. 2019: Seminar on 5G Mobile Network Testing, Talk by Jerry Carpenter, Peter Busch and Iratxe Fernandez (Germany), Luis Santo, Miguel Capela and Luís M. Correia (Portugal).
- OTS78 Apr. 2023: 28<sup>th</sup> Seminar on Mobile Communications, Talk by Eng. Carlos Leitão, Carla Botelho and Ricardo Pinto (Portugal).



## **Annex K**

### ***Scientific Dissemination***

One has been invited to give talks on scientific dissemination to the general population and pupils, at the national level:

- SDI1 Feb. 2008: “Electromagnetic Radiations: Myths and Facts”, IST, Lisbon
- SDI2 May 2008: “Electromagnetic Radiations: Myths and Facts”, Hospital Central de Faro, Faro
- SDI3 May 2008: “Electromagnetic Radiations: Myths and Facts”, Biblioteca Municipal Álvaro de Campos, Tavira
- SDI4 June 2008: “Electromagnetic Radiations: Myths and Facts”, Cine-Teatro Municipal do Entroncamento, Entroncamento
- SDI5 Nov. 2008: “Electromagnetic Radiations: Myths and Facts”, Escola Secundária António Aleixo, Portimão
- SDI6 Feb. 2009: “Electromagnetic Radiations: Myths and Facts”, IST, Lisbon
- SDI7 Mar. 2009: “Electromagnetic Radiations: Myths and Facts”, Escola Secundária do Monte de Caparica, Monte da Caparica
- SDI8 May 2009: “The Communications of the Future”, Escola Secundária Herculano de Carvalho, Lisbon
- SDI9 July 2009: “Electromagnetic Radiations: Myths and Facts”, Câmara Municipal de Gavião, Gavião
- SDI10 Sep. 2009: “Electromagnetic Radiations: Myths and Facts”, Câmara Municipal de Ourique, Ourique
- SDI11 Nov. 2009: “Electromagnetic Radiations: Myths and Facts”, Câmara Municipal de Lisbon, Lisbon
- SDI12 Jan. 2010: “Electromagnetic Radiations: Myths and Facts”, IST, Lisbon
- SDI13 Feb. 2010: “Electromagnetic Radiations: Myths and Facts”, IST, Lisbon
- SDI14 Mar. 2010: “Electromagnetic Radiations: Myths and Facts”, IST, Lisbon
- SDI15 Mar. 2010, “Applications of Mathematics to Mobile Communications”, Pavilhão do Conhecimento, Lisbon

- SDI16 May 2010: “Electromagnetic Radiations: Myths and Facts”, Câmara Municipal de Lisbon, Lisbon
- SDI17 May 2010: “Electromagnetic Radiations: Myths and Facts”, Junta de Freguesia da Portela, Lisbon
- SDI18 Nov. 2010: “Electromagnetic Radiations: Myths and Facts”, IST, Lisbon
- SDI19 Jan. 2011: “Electromagnetic Radiations: Myths and Facts”, IST, Lisbon
- SDI20 Jan. 2011: “Applications of Mathematics to Mobile Communications”, Escola Secundária do Barreiro, Barreiro
- SDI21 July 2011: “Electromagnetic Radiations: Myths and Facts”, Câmara Municipal de Vila Real, Vila Real
- SDI22 Dec. 2011: “Electromagnetic Radiations: Myths and Facts”, IST, Lisbon
- SDI23 Jan. 2012: “Electromagnetic Radiations: Myths and Facts”, IST, Lisbon
- SDI24 Jan. 2012: “Electromagnetic Radiations: Myths and Facts”, Câmara Municipal de Pombal, Pombal
- SDI25 Feb. 2012: “Electromagnetic Radiations: Myths and Facts”, IST, Lisbon
- SDI26 Mar. 2012: “Electromagnetic Radiations: Myths and Facts”, Escola Secundária de Praia da Vitória, Ilha Terceira
- SDI27 Mar. 2012: “Electromagnetic Radiations: Myths and Facts”, Escola Secundária de Velas, Ilha São Jorge
- SDI28 Mar. 2012: “Electromagnetic Radiations: Myths and Facts”, Escola Secundária de Santa Maria, Ilha Santa Maria
- SDI29 Feb. 2013: “The Mysteries of Mobile Phones”, Escola Secundária de Pedro Nunes, Lisbon
- SDI30 July 2013: “Mobile Communications” @ Introduction to Telecommunications, Ciência Viva at DEEC-IST, Lisbon
- SDI31 Dec. 2013: “Electromagnetic Radiations: Myths and Facts”, PT, Lisbon
- SDI32 Dec. 2013: “Electromagnetic Radiations: Myths and Facts”, IST, Lisbon
- SDI33 Jan. 2014: “Electromagnetic Radiations: Myths and Facts”, IST, Lisbon
- SDI34 Fev. 2014: “Electromagnetic Radiations: Myths and Facts”, PT, Lisbon
- SDI35 Apr. 2014: “Electromagnetic Radiations: Myths and Facts”, Instituto Politécnico de Tomar, Tomar
- SDI36 July 2014: “Mobile Communications” @ Introduction to Telecommunications, Ciência Viva at DEEC-IST, Lisbon

- SDI37 Apr.2015: “The Mysteries of Mobile Phones”, Escola Secundária de Vergílio Ferreira, Lisbon
- SDI38 July 2015: “Mobile Communications” @ Introduction to Telecommunications, Ciência Viva at DEEC-IST, Lisbon
- SDI39 Apr. 2016: “Mathematics and Physics in Mobile Phones”, Escola Secundária de Camões, Lisbon
- SDI40 Apr. 2016: “Electromagnetic Radiations: Myths and Facts”, Formação Universitária Sénior, IST, Lisbon
- SDI41 Apr. 2016: “Electromagnetic Radiations: Myths and Facts”, INETE, Lisbon
- SDI42 Apr. 2016: “Electromagnetic Radiations: Myths and Facts”, Escola Alemã, Lisbon
- SDI43 July 2016: “Mobile Communications” @ Introduction to Telecommunications, Ciência Viva at DEEC-IST, Lisbon
- SDI44 Nov. 2016: “Electromagnetic Radiations: Myths and Facts”, Escola Secundária Gama Barros, Cacém
- SDI45 Apr. 2017: “Electromagnetic Radiations: Myths and Facts”, INETE, Lisbon
- SDI46 July 2017: “Mobile Communications” @ Introduction to Telecommunications, Ciência Viva at DEEC-IST, Lisbon
- SDI47 Nov. 2017: “Electromagnetic Radiations: Myths and Facts”, Escola Secundária Gama Barros, Cacém
- SDI48 July 2018: “Mobile Communications” @ Introduction to Telecommunications, Ciência Viva at DEEC-IST, Lisbon
- SDI49 Feb. 2018: “Mathematics and Physics in Mobile Phones”, Escola Secundária de Camões, Lisbon
- SDI50 Feb. 2019: “Mathematics and Physics in Mobile Phones”, Escola Secundária de Camões, Lisbon
- SDI51 July 2019: “Mobile Communications” @ Introduction to Telecommunications, Ciência Viva at DEEC-IST, Lisbon
- SDI52 Feb. 2020: “Electromagnetic Radiations: Myths and Facts”, Escola Secundária Laura Ayres, Quarteira
- SDI53 May 2020: “Electromagnetic Radiations in 5G”, Técnico+ Expert Talks (by videoconference), Lisbon
- SDI54 May 2020: “5G Mobile Communications”, Técnico+ Expert Talks (by videoconference), Lisbon

- SDI55 Oct. 2020: “5G Mobile Communications”, INOV RTT Talks (by videoconference), Lisbon
- SDI56 Nov. 2020: “Electromagnetic Radiations in 5G”, INOV RTT Talks (by videoconference), Lisbon
- SDI57 Nov. 2021: “5G: from Technology to Applications”, INOV T-Sessions (by videoconference), Lisbon
- SDI58 July 2022: “Mobile Communications” @ Introduction to Telecommunications, Ciência Viva at DEEC-IST, Lisbon
- SDI59 Jan. 2023: “Electromagnetic Radiations: Myths and Facts”, Escola Secundária Penafiel, Penafiel
- SDI60 Jan. 2023: “Electromagnetic Radiations: Myths and Facts”, Escola Secundária Alexandre Herculano, Porto
- SDI61 July 2023: “Mobile Communications” @ Introduction to Telecommunications, Ciência Viva at DEEC-IST, Lisbon

## **Annex L**

### ***List of Acronyms***

ACES	Applied Computational Electromagnetics Society
ACIST	Associação Empresarial de Comunicações de Portugal
ADIST	Associação para o Desenvolvimento do IST
ANA	Aeroportos e Navegação Aérea
ANACOM	Autoridade Nacional de Comunicações
APDC	Associação Portuguesa para o Desenvolvimento das Comunicações
CAPS	Centro de Análise e Processamento de Sinais
COST	Cooperation in Science and Technology
DC	Domain Committee
DEEC	Departamento de Engenharia Electrotécnica e de Computadores
DFA	Diploma de Formação Avançada
EC	European Commission
FCT	Fundação de Ciência e de Tecnologia
FUNDETEC	Fundo para o Desenvolvimento para a Engenharia Electrotécnica e de Computadores
ICP	Instituto de Comunicações de Portugal
ICT	Information and Communication Technologies
IEEE	Institute of Electrical and Electronic Engineers
IMPE	Instituto Militar dos Pupilos do Exército
INESC	Instituto de Engenharia de Sistemas e Computadores
ISCTE	Instituto Superior de Ciências de Trabalho e Empresa

IST	Information Society Technologies
IST	Instituto Superior Técnico
ISUTC	Instituto Superior de Transportes e Comunicações
IT	Instituto de Telecomunicações
JNICT	Junta Nacional de Investigação Científica e Tecnológica
LEEC	Licenciatura em Eng. Electrotécnica e de Computadores
MEEC	Mestrado em Eng. Electrotécnica e de Computadores
MERSC	Mestrado em Eng. de Redes e Sistemas de Comunicação
M.Sc.	Master of Science
OE	Ordem dos Engenheiros
OGMA	Oficinas Gerais de Material Aeronáutico
Ph.D.	Doctor of Philosophy
POSTIT	Pós-Graduação em Telecomunicações e Tecnologias de Informação
QUC	Qualidade de Unidades Curriculares
R&D	Research & Development
SPPCR	Sociedade Portuguesa para a Protecção contra Radiações
UoL	University of Lisbon
UTL	Universidade Técnica de Lisbon
WP	Work Package