

PERSONAL
INFORMATION

Lúcio Miguel Studer Ferreira

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Date of birth: 21/11/1971

Nationalities: Portuguese and Swiss



WORK
EXPERIENCE

Since 2016 Professor

Universidade Beira Interior, Covilhã, Portugal

- Lecturer of Web Composition (regent, teaching theoretical and practical/laboratory classes) to Computer Engineering, Web Informatics and Design and Multimedia courses.
- Lecturer of Algorithms and Data Structures (regent, teaching theoretical and practical/laboratory classes) to Bioengineering course.
- Lecturer of Software Engineering (practical classes) to Computer Engineering, Web Informatics and Electrical and Computer Engineering courses.

Since 2014 Professor

Lusíada University, Lisbon, Portugal

- Lecturer of Introduction to Algorithms and Data Structures, Advanced Algorithms and Data Structures, Computer Architectures, Compilers, Computation Theory, Graphical Computation and Representation (regent of all lectures, teaching both theoretical and practical/laboratory classes), to the Computer Engineering course.
- Lecturer of Management Information Systems (regent, teaching both theoretical and practical classes), to the Master in Management.
- Between 2014 and 2016 he was lecturer of Telecommunication Fundamentals, Telecommunication Systems and Propagation and Radiation (regent of all lectures, teaching both theoretical and practical classes), to the Electrical and Computer Engineering course.

Since 2012 Senior Telecommunications Engineer and Project Manager

INESC (INOV – INESC Inovação / INESC-ID), Lisbon, Portugal

- Participation in the FP7 European project MCN – Mobile Cloud Networking, with INTEL, NEC, Orange, SAP, Telecom Italia and PT Inovação, among others. Co-redaction of the project proposal, project management, and research on cloud-RAN, software-based base-stations and resources virtualisation.
- Participation in COST IC1004 – Cooperative Radio Communications for Green Smart Environments. Edition of a book chapter on “Virtualised and cloud-based architectures”. Technical organiser of the training school *From Hetnets to Cloud Radio Access Networks*.
- Development and team management of a web-based integrated sensors network solution to monitor and irrigate vineyards. Two pilots has been deployed.

1998-2012 Telecommunications Engineer

Instituto de Telecomunicações (IT), Lisbon, Portugal

- Participation in the FP7 projects 4WARD – Architecture and Design for the Future Internet and SAIL – Scalable & Adaptive Internet Solutions, with Ericsson, Alcatel, NSN, NEC, Orange, Deutsche Telekom e DoCoMo. Proposals co-redaction, team leading and research on future Internet architectures.
- Participation in FP6 project WIP – An All-Wireless Mobile Network Architecture, a consortium with Swisscom, Siemens and Thomson. Research on radio resource management in wireless mesh networks.
- Participation in the FP5 project MOMENTUM - MOdels and siMulations for nEtwork plaNning and control of UMTS, a consortium with Siemens, Vodafone, E-Plus e KPN. Monitoring of UMTS networks in

various European cities (Lisbon, The Hague, Karlsruhe, Turin and Vienna), modelling of traffic, mobility and propagation, and development of simulation tools for UMTS.

- Participation in the FP5 project ASILUM – Advanced Signal Processing Schemes for Link Capacity Increase in UMTS. Contribution in the development of an UMTS system level simulation tool.
- Participation in the FP5 project FLOWS – Flexible Convergence of Wireless Standards and Services.
- Participation in COST actions 2100 – Pervasive Mobile & Ambient Wireless Communications and 273 – Flexible Convergence of Wireless Systems. Chair of a special interest group on reference scenarios for heterogeneous systems, editor of a book chapter on services and traffic modelling.
- Participation in FP5 ANWIRE – Academic Network on Wireless Internet Research in Europe, FP6 NEWCOM and FP7 NEWCOM++ networks of excellence in wireless communications networks.
- Consultancy for ANACOM regulator, Optimus, TMN and Vodafone operators and Metropolitano de Lisboa on mobile communication systems.

1997 Telecommunications Engineer

Deutsche Telekom AG, Technological and Research Centre, Darmstadt, Germany

- Planning and optimisation of *Fixed Wireless Access* networks for German cities.

EDUCATION & TRAINING

1997 Licenciatura in Electrical & Computer Engineering

Telecommunications branch. Instituto Superior Técnico – Technical University of Lisbon, Portugal

- Diploma thesis developed with Vodafone on the optimization of cellular planning for non-uniform traffic distributions in GSM. This work received an award from ANACOM.

2013 Ph.D. in Electrical and Computer Engineering

Telecommunications branch. Instituto Superior Técnico - University of Lisbon, Portugal

- Thesis on radio resources management of wireless mesh networks.

2015 Doctor Specialist in Computer Engineering

Lusíada University, Lisbon, Portugal.

2015 Project management certification

Level D certificate of IPMA. CEPEI, Instituto Superior Técnico.

2015 IT service management (ITIL) certification

ITIL v3 Foundation Level certification, APMG International. CEPEI, Instituto Superior Técnico.

1998-2017 Training courses

Attendance to 27 training courses, from 1 to 6 days duration, given by institutions in Germany, Italy, Luxemburg, Spain, Sweden, Switzerland, Belgium, France, Cyprus and UK.

- Training courses topics: LTE, Cloud-RAN, UMTS, Wi-Fi, IP, cognitive, self-organised, mesh, cooperative, hetnets and green networks, and paradigms such as propagation models, planning and optimisation.

PERSONAL SKILLS

Languages

- Portuguese, Spanish and French mother tongues.
- Advanced user (level C2) of English and independent user (level B2) of German and Italian.

Organisational skills

- Good team and project management skills, high proactivity and adaptability to different work methods and novel areas in objective oriented projects. These skills were gained through work experience in multidisciplinary consortiums with European leading manufacturers, operators and research institutes, conceiving and successfully executing 15 European projects and 6 national ones.

- Communication skills**
- Excellent verbal communication skills, with a record of 160 attended meetings worldwide to present and discuss achievements within projects, conferences, workshops and trainings, and tuition experience of undergraduate lectures. Excellent written communication skills, proven through 45 edited reports for the European Commission and 54 authored scientific publications in books, journals and conferences.
- Technical skills**
- Excellent research skills for analysis, problem formulation and resolution, development of tools for planning, monitoring and optimisation, fast adaptability to novel areas, acquired through 15 years of work experience in European research projects, during his Ph.D. as well as in the experience supervising 6 M.Sc. and 1 Ph.D. thesis.
 - Good technical knowledge of telecommunication networks (Cloud-RAN, LTE, UMTS, GSM, Wi-Fi, IP, mesh and sensors networks), acquired through work with more than 50 manufacturers and operators.
 - Proven experience in consultancy for operators and regulators, review of international research partnerships, review of journal and conference publications, and jury of Ph.D. and M.Sc. thesis.
 - Good knowledge of software tools and programming languages (OPNET, TEMS, MapInfo, Matlab, Cossap; C, MySQL, Javascript, HTML, XML; MS Office, Project, Visio, Autocad and LaTeX).
- Other skills**
- Holder of Conservatory, undergraduate and post-graduate degrees in viola, being currently an amateur viola player, member of Arabesco string quartet, Musicos do Tejo and Divino Sospiro Baroque Orchestras, and Lisbon Sinfonietta Orchestra. Scout during 10 years.
- Affiliations**
- Member of IEEE and board member of IEEE Portugal Communications Society Chapter.