

## Curriculum Vitae (Academy of Finland format)

### • PERSONAL DETAILS

Family name, First name (Previous Surname): Lohan, Elena Simona (Capitaneanu)

Researcher identifier(s): [REDACTED]

### • DEGREES

- 2007 Docent in "Wireless positioning and personal navigation", Tampere University of Technology
- 2003 PhD (wireless communications), Institute of Communications Engineering, Tampere University of Technology (TUT), Tampere, Finland. PhD Supervisor: Prof Markku Renfors
- 1998 DEA (econometrics), French equivalent of master, Ecole Polytechnique, Paris, France
- 1997 Diploma of Engineer (MSc, electrical engineering), Department of Engineering Sciences, English division, University "Politehnica" of Bucharest (UPB), Romania

### • CURRENT EMPLOYMENT

Since May 2020: Full Professor, Electrical Engineering Unit, Tampere University (TAU)

### • PREVIOUS WORK EXPERIENCE

- 2013 – 05.2020 Associate professor (tenure track), Electrical Engineering Unit, Tampere University (TAU)
- 2012 – 2019 Visiting Scholar, SPCOMNAV, Engineering School, Universitat Autònoma de Barcelona (UAB), Bellaterra, Spain
- 2007 – 2013 Adjunct Professor (Docent), Dept. of Electronics and Comm. Engineering, TUT, Finland
- 2010 – 2011 Visiting Professor (Nokia Foundation grant), Department of Electronics and telecommunications, University Politehnica of Bucharest (UPB), Romania
- 2007 – 2010 External Consultant, Atheros Finland (formerly u-Nav microelectronics)
- 2003 – 2007 Senior Researcher, Dept. of Electronics and Communications Engineering, TUT, Finland
- 1998 – 2003 Researcher, Dept. of Electronics and Communications Engineering, TUT, Finland
- 1997 – 1998 13-month cumulated trainee work at France Telecom, Paris, France (6 months), Caisse Nationale de Credit Agricole, Paris, France (6 months) and UPB, Romania (1 month)

- CAREER BREAK: Jun 2007-Apr 2008 maternity leave (11 months).

### • RESEARCH FUNDING AND GRANTS DURING PAST 5 YEARS

- 2023 – 2024 co-PI at TAU for ELEVATE project, direct industrial funding, 164 kEUR
- 2024 – 2026 PI at TAU for RESILIENT project, NSF and Academy of Finland, 275 kEUR
- 2024 – 2025 PI at TAU for LED SOL, EU H2020/LEAP-RE project, 200 kEUR
- 2021 – 2023 PI at TAU for INCUBATE, Teknologiateollisuus and Jane & Aatos Erkko Foundation, 225 kEUR
- 2021 – 2022 co-PI at TAU for NewSense, H2020 SESAR project, 305.5 kEUR
- 2019 – 2023 Coordinator for a H2020 MSCA EJD project (A-WEAR), 3.76 MEUR funding
- 2019 – 2021 Principal Investigator (PI) at TAU for FINESSE ESA-funded project, 120 kEUR
- 2020 – 2022 PI at TAU for INNUENDO European Space Agency (ESA)-funded project, 41.8 kEUR
- 2020 – 2022 co-PI at TAU for ULTRA Academy of Finland project, 166.8 kEUR
- 2018 – 2019 co-PI at TAU for a H2020 SESAR project (EMPHASIS), 199 kEUR funding
- 2018 – 2019 PI at TAU for a H2020 SESAR project (GATEMAN), 174 kEUR funding
- 2018 – 2019 PI for PRISMA Academy of Finland project, 150 kEUR funding

### • RESEARCH SUPERVISION AND LEADERSHIP EXPERIENCE

- 2003 – present: *Supervision tasks at TAU*: 5 postdocs/ 25+ (co)-supervised PhD (16 of which already completed the PhD theses)/ 60+ supervised Master Students (55 of which already completed the theses)
- 2009 – present: *Supervision tasks outside TAU*: 7 co-supervised students in joint/double PhD theses at TAU (4 with completed theses);

### • TEACHING MERITS

- 2003 – present Lecturer of 6 annual or bi-annual lectures and 2 annual exercise/laboratory parts (semester long), TAU, Finland: COMM.SYS.400 Digital communications (2020-present, yearly), ELT-49506 Graduate Research Seminar in Communications Engineering (2019-present, yearly), ELT-43456

- IoT (2018-2019, yearly), ELT-41206/TLT6100/TLT6106/COMM.SYS.200 Basic Course on Wireless Communications (2008-present, yearly), ELT-46206/TLT5656 Signal Processing for Mobile Positioning (2012-2018, every second year), ELT-43206/TLT5606 Spread Spectrum techniques (2009-2017, every second year), 83001/TLT5206 Communication Theory (2003-2006)
- 2003 – present Occasional invited lecturer at TAU/TUT and DELTA doctoral school, Finland to keep lectures on topics such as digital transmission, satellite positioning, wireless communications, wearable computing, etc.,
- 2012 – 2015 Lecturer of several post-graduate seminars at UAB, Spain, related to WLAN positioning, communication system design, and telecom applications.
- 2010-2011 Lecturer at UPB, Romania for a post-graduate course in localization (3 ECTS)

- ORGANISATION OF SCIENTIFIC MEETINGS

- 2001–present Co-organizer of 8 seasonal PhD schools in Finland: A-WEAR 4 seasonal schools, DELTA/INSURE Spring course (2018), DELTA/MULTI-POS Platforms, services and applications in localization (2014), GETA/TISE Modern wireless localization (2013), GETA/TISE Wireless positioning challenges and solutions for ubiquitous navigation (2009), TLT-9707 Satellite and cellular-network based positioning systems (2006) – between 30 and 50 participants each
- 2001–present 5 workshops: IEEE ICL-GNSS 2020-2022, Tampere, Finland; IEEE ICL-GNSS 2016, Barcelona, Spain and 2nd FWCW, Tampere, Finland (2001).

- PATENTS, INVENTIONS, AWARDS AND HONORS

- 2012–present 5 *published patents* (with Nokia HERE and Qualcomm), and one filled invention report
- 2015 *Best presentation award* at ACM MELT 2015, for the paper “Room-level Indoor Positioning with Wi-Fi and RFID Fingerprints”, by P. Figueiredo e Silva and E.S. Lohan
- 2013 *Exemplary Reviewer 2012 Award* from IEEE Communications Letters
- 2011 *Best paper award* at SPACOMM 2011 conference, Hungary.

- OTHER KEY SCIENTIFIC OR ACADEMIC MERITS

- 2023 Expert evaluator for Swedish research Council 2023
- 2021-2023 *EU expert evaluator and reviewer for H2020/Horizon Europe EGNSS/EUSPA calls 2020-2022*
- 2015– present Regular *Expert Reviewer tasks* for The Executive Agency for Higher Education, Research, Development and Innovation Funding, Romania and Estonian Council, Estonia
- 2013 – present *Associated Editor* for three peer-reviewed international journals (Cambridge RIN Journal of Navigation, IET Radar, Sonar and Navigation journal, and GPS Solutions) and *regional correspondent* for the IEEE Global Communications Newsletters; also *IEEE Senior member*
- 2011 – present *Member of steering committee* of the IEEE/ICL-GNSS conferences ([www.icl-gnss.org](http://www.icl-gnss.org)).

- MEMBERSHIPS AND COMMISSIONS OF TRUST IN SCIENTIFIC SOCIETIES

- 2021 – present *Member of DPCEE Programme Committee for doctoral school at TAU-ITC*
- 2020 – 2021 *Member of Programme Committee for the International Bachelor's Programme in Science, specialisation in Aviation TAU, Finland*
- 2020 – present *Member of PhD Board in Information Engineering at University Mediterranea of Reggio Calabria (URC), Italy*
- 2020 – present *Member of Geoinformatiikan yliopistoverkoston (FIUGINET network), TAU, Finland*
- 2019 – 2020 *Member of Scientific Advisory Board, TAU, Finland*
- 2020 *Member of the Docentship evaluation committee at Electrical Engineering unit, TAU*
- 2019– 2021 *Part of the evaluation commission of tenure-track applicants at TAU*
- 2017 – 2018 *Member of Equality and Non-Discrimination Committee, TUT, Finland*
- 2014 – present *Member of ION SDR Working group and Member of NetWorld2020 Satcom group*
- 2010 – present *Member of the European Satellite Navigation University Network, [www.gnss-sun.eu/](http://www.gnss-sun.eu/)*
- 2012 – 2016 *Equality Officer and Scientist in Charge in FP7 MULTI-POS ITN ([www.multi-pos.org](http://www.multi-pos.org))* 2014 – 2015 *Chair and panelist for TUT's Graduate School Rector grants, TUT, Finland*
- 2010 – 2014 *Deputy board member for the Graduate School in Electronics, Automation and Telecommunications (GETA), Finland*