

ROMINA SPALAZZESE'S CURRICULUM VITAE

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1. EMPLOYMENT HISTORY AND TITLES

2017/03 - ... Associate Professor, MAU, Department of Computer Science and Media Technology (DVMT) (permanent position)
2014/08 - ... Senior lecturer (universitetslektor) in Computer Science, MAU, DVMT (permanent position)
2020/11 - 2029/11 - Italian National Scientific Habilitation as Assoc. Prof (ASN 01/B1 – INFORMATICA, Seconda Fascia PA)
2013/08 - 2014/07 - Senior lecturer in Computer Science, Chalmers | University of Technology and Gothenburg University
2013/04 - 2013/06 - Research Collaborator Appointment in Computer Science within an EU research project, Univ. of L'Aquila
2011/02 – 2014/03 - Post-doc in Computer Science, Univ. of L'Aquila, Dept. of Information Eng., Computer Sci. and Mathematics
2007/11 - 2011/04 - Ph.D. Student in Computer Science, Univ. of L'Aquila, Dept. of Informat. Eng., Computer Sci. and Mathematics

2. SCIENTIFIC LEADERSHIP, MANAGEMENT, AND ADMINISTRATION

Leadership in Conjunction with Research

- 2014/11/15 – 2022/03/31 Project leader of “Emergent Configurations for IoT Systems” (ECOS+ and ECOS) <http://iotap.mah.se/ecos/> funded by: the KKS Knowledge Foundation, MAU and DataDuctus, Sigma Technology, Sigma Connectivity, Terranet through the Internet of Things and People (IoTaP) research profile - <http://iotap.mah.se/ecos/>
- 2020/04 - 2022/09 Project Leader of the AVANS project (main applicant) financed by the Swedish Knowledge Foundation (KKS). Aim: to develop a 2 years' Master Program in the Internet of Things with partner companies Axis, Data Ductus, Ericsson, Mobile Heights, Sigma Connectivity, Sigma Technology, Sony, and Topp. Duration: 2.5 years. Total budget: around 3 300 000 SEK;
- 2015/01/01 – 2018/06/31 Project leader of the research project “Managing Interoperability Concerns in Large Systems” (Interoperability) <https://www.software-center.se/research-themes/technology-themes/continuous-architecture/managing-interoperability-concerns/> funded by: Volvo Group (Trucks), Ericsson, Jeppesen-Boeing, Volvo Cars, Verisure, Axis Communications and MAU through the Software Center.

Research Supervision

- Main Supervisor of Fahed Alkhabbas, PhD Student in Computer Science at MAU (defended on 2020/12/18, six months in advance)
- Co-Supervisor of Majid Ashouri Mousaabadi since 2018/03; Licentiate degree on 2021/01/29
- Supervisor of Mahyar Turchi Moghaddam, Italy, visiting PhD Student at MAU, 2018/01 – 2018/06 (6 months)
- Mentor of post-doc Yuji Dong, December 2018 – December 2020 / Mentor of post-doc Fahed Alkhabbas since January 2021

Participation in National and International Projects

- 2020/06 – 2022/05 Co-applicant for the Crafoord project “Human-environment interaction and sustainability in Internet of Things ecosystems: Design of Internet of Energy management system in smart buildings for sustainability” (granted 400K SEK)
- 2014/08 - ... Project leader and senior researcher member, IoTaP Research Center (<http://iotap.mah.se>), MAU, Sweden
- 2015/01 – 2018/07 Project leader and senior researcher member, Software Center (<http://www.software-center.se/>) including 5 Swedish Universities and 10 large companies, MAU, Sweden
- 2010/04 - 2010/07- Research Associate in Computer Science, I.N.R.I.A. (French National Institute for Research in Computer Science and Automation), ARLES project-team, Roquencourt (Paris)- France
- 2009/02 - 2012/11- Researcher, Post-doc and PhD Student, in the CONNECT European project, FET (Future and Emerging Technologies) project, FET Proactive 6: ICT Forever Yours - seventh Framework Programme, 46 months duration
- 2007 - 2009- Researcher, PhD Student within Adaptive SoftwAre (ASA) proj./team - Programme I.N.R.I.A. Equipes Associées, French proj./team in collaboration with foreign partners

Scientific Services, Awards, and Appointments

- Served the Excellence Initiative ISITE-BFC at Université Bourgogne Franche-Comté, France, as project reviewer in 2018
- Served the Research Foundation Flanders - FWO (Belgium) as project reviewer of “New research project proposal
- Served the Spark framework, Jönköping University (Sweden) as scientific project reviewer of research projects, 2018/19
- Served for 3 years a Funding Programme in Austria in 2016, 2015, 2014 as: Expert evaluator (i.e., project reviewer), Panel member (in physical meetings), Panel chair, Chairperson of the overall evaluation committee (all 15 panels' chairs)
- Guest Editor of Special Issue of Internet of Things at Pervasive and Mobile Computing Journal (PCMJ), Elsevier
- Editorial board of IET Software since 2017
- Steering Committee Member of the 10th International Conference on the Internet of Things (2021)
- Co-chair of Tools and Demonstrations at ECSA 2021
- Co-chair of New and Emerging Ideas (NEMI) Track at ICSA 2021
- Publicity Co-chair at ECSA 2022 / Publicity Co-chair at SEAMS 2021 / Publicity chair at SEAMS 2015
- PC Co-Chair of the 10th International conference on the Internet of Things (IoT 2020)
- Co-chair of Tool Demo and Mobile Apps at MOBILESoft 2019 (co-located with ICSE 2019)
- Co-chair of Early Career Researchers Forum at ICSA 2018
- Publicity and Social Media Co-Chair at MOBILESoft 2018 (co-located with ICSE 2018)
- Main organizer of IoT-ASAP 2020 Fourth International Workshop on Engineering IoT Systems: Architectures, Services, Applications, and Platforms at ECSA 2020 and Main organizer of IoT-ASAP 2019, 2018, 2017 at ICSA 2019, 2018, 2017
- Session Chair at ICSE Demo 2018, Evolution session
- Program Committee (PC) member of more than 50 *International Conferences and Workshops*, including *leading conferences*, e.g.: ICSA, ECSA, ICSE, SEAMS, MODELSWARD, SEAA, SAC and *IoT workshops*, e.g., ES-IoT, SSIoT, MDE4IoT, enWoT.

- Reviewer for leading internat. journals, e.g., TSE, TSC, SoSym, TAAS, IST, JSS, IEEE Software, JISA, Computing, IET Software
- External reviewer for leading international conferences as: ICSE 2016, '13, '11, '10, '09; ISSTA 2012; FASE 2011; SEFM 2011
- “Exceptional Reviewer Award” of ICSCA 2019 and 2018 / “Best Reviewer Award” of WICSA and CompArch 2016 –now ICSCA
- Invited / invited talks at MDE4IoT2018@MODELS, University of Genova (Italy) about the IoT, its challenges and future directions in 2018, Dagstuhl Seminar in 2018 and 2014 (Germany), Conference on Technical Product Information -Branschorganisationen För Teknikinformation, BOTI (Sweden) in 2018 and 2016 (Sweden), Shonan Meeting (Japan) in 2017 and 2016, Software Technology Exchange Workshop STEW in 2017 and 2015 (Sweden), Malmö stad library in 2014
- Leader/coordinator for the Department of Computer Science and Media Technology at Malmö University for the self-evaluation of research “ERA19” about the 5 years period 2013 – 2018
- Member of the group “Supervisors and responsible for operations” in the evaluation of the third-cycle education at MAU conducted by UKÄ, the Swedish Higher Education Authority
- Member of the Advisory Board for Widening Access and Participation at MAU 2021 – 2022
- Leader/Responsible within the IoTaP management group for the publication area (1 of 4 areas) 2022
- Management group member since 2014 (1 of 5) of the IoTaP Research Profile
- Member (1 of 10) of the Reference Group "Research Communication through the Web", MAU (2018 - 2019)
- Member of the board of supervisors of the Faculty of Technology and Society, MAU (since 2016)
- Member of the recruitment committee for the Head of the Department of Com. Sci. and Media Tech. at MAU (2022 & 2017)
- Member of the recruitment committee for selecting 1 PhD Student in Computer Science at MAU (2020-2021) --in IoT
- Member of the recruitment committee for selecting 4 postdocs and 2 PhD Student in Computer Science at MAU (2016-2017)
- External expert for the selection of 3 post-docs in Computer Science at MAU (2016-2017)
- Chair of PhD committee, PhD defense of Usman Iftikhar at Linnaeus University, Sweden (December 2017) --in IoT
- 6 times PhD committee member, PhD defense of: Eoin Martino Grua at Vrije Universiteit Amsterdam, The Netherlands (December 2021) / Daniel Brahneborg at Mälardalen University, Sweden (June 2020) --in IoT / Markel Iglesias at Deusto University, Spain (June 2020) / Nadeem Abbas at Linnaeus University, Sweden (April 2018) / Usman Iftikhar at Linnaeus University, Sweden (December 2017) / Usman Iftikhar at Katolieke Universiteit Leuven, Belgium (November 2017) --in IoT
- Examiner of 3 PhD Student in Computer Science, MAU, (since 2017) --in IoT

3. EDUCATIONAL QUALIFICATIONS

Appointments and teaching

- Leader of the AVANS project (main applicant) financed by KKS to develop a 2 year Master Program in the Internet of Things with partner companies Axis, Data Ductus, Ericsson, Mobile Heights, Sigma Connectivity, Sigma Technology, Sony, and Topp. (2.5 years);
- Responsible for the creation and Leader of Computer Science: Internet of Things, Master's Course, 60 credits, MAU, 2015 - 2019;
- Program leader of Media Software Design: Master Programme in Computer Science, 120 credits, 2014 - 2015;
- Responsible for further developments of two existing Master's Programs at MAU: (i) Computer Science: Master Programme, 60 credits and (ii) Media Software Design: Master Programme in Computer Science, 120 credits, 2014 - 2015
- Invited lecture at the Doctoral School IDEALeague (ECS-BIT'18) Doctoral School on Engineering Complex Systems and IT with Big data and Information Technology - Topic: Quality Management in the Internet of Things – Chalmers University of Technology
- Responsible for the creation, examination, and teaching of an IoT PhD level course, 5 credits, MAU, 2016 - 2017;
- Involved with different roles (responsible, examiner, teacher) in 22+ distinct courses, some of which more than once, within a wide range of topics in Computer Science, at different levels, in different programmes, alone and in team, in different universities and countries (19+ in Sweden, 3 in Italy) More info at <http://www.rominaspalazzese.com/teaching.html> --Main focus on IoT since 2015

4. SCIENTIFIC PRODUCTIVITY: PUBLICATIONS

Total: 50 (of which 11 original articles in refereed scientific journals; 30 original contributions to refereed scientific conferences; 3 book chapters; 1 monograph; 5 edited prefaces) - **Selected publications**

- Majid Ashouri, Paul Davidsson, Romina Spalazzese. Quality Attributes in Edge Computing for the Internet of Things: A Systematic Mapping Study, *Internet of Things*, Vol. 13, 100346, Elsevier, 2021.
- F. Alkhabbas, R. Spalazzese, P. Davidsson. An Agent-Based Approach to Realize Emergent Configurations in the Internet of Things. *Electronics* 2020; 9(9):1347.
- G. Reggio, M. Leotta, M. Cerioli, R. Spalazzese, F. Alkhabbas. What are IoT systems for real? An experts' survey on software engineering aspects. *Internet Things* 12: 100313 (2020)
- M. Ashouri, F. Lorig, P. Davidsson, R. Spalazzese. Edge Computing Simulators for IoT System Design: An Analysis of Qualities and Metrics. *Future Internet* 2019, 11(11), 235.
- F. Alkhabbas, R. Spalazzese, M. Cerioli, M. Leotta, G. Reggio On the Deployment of IoT Systems: An Industrial Survey. In IEEE International Conference on Software Architecture (Software Architecture in Practice track), ICSCA C 2020: 17-24.
- M. De Sanctis, R. Spalazzese, C. Trubiani. QoS-Based Formation of Software Architectures in the Internet of Things. In European Conference on Software Architecture, ECSA 2019: 178-194

5. INDUSTRIAL COLLABORATION

During my research experiences, I carry/carried out 15+ collaborations with industries including, e.g.: (Sweden) Axis Communications - Lund; Ericsson - Gothenburg; Sony Communications - Lund; Jeppesen (Boeing) - Gothenburg; Volvo Group (Trucks Technology) - Gothenburg; Volvo Cars - Gothenburg; Sigma Technology - Växjö, Gothenburg, Västerås; Sigma Connectivity - Lund; Data Ducts - Malmö; Terranet - Lund; Verisure - Malmö; (France) Thales Communications SA - Paris; Ambientic SAS - Paris; (Germany) DoCoMo Communications Laboratories Europe GmbH - Munich; (Italy) Technolabs S.p.A. - L'Aquila; Rara System s.r.l. - Pescara