

# Short Curriculum Vitae

**Luca Foschini**

**Full Professor** in Computer Engineering at  
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## QUALIFICATIONS

### MAIN TITLES

- He has been habilitated as **Full Professor** in the **national examination** called **Abilitazione Scientifica Nazionale 2020** for the discipline 09/H1 (Computer Science Engineering)
- He has been habilitated as **Associate Professor** in the **national examination** called **Abilitazione Scientifica Nazionale 2012 and 2013** for the disciplines 09/H1 (Computer Science Engineering) and 01/B1 (Computer Science)
- In April 2007, I received my **Ph.D. in Computer Engineering** at the Dipartimento di Elettronica, Informatica e Sistemistica (DEIS) of the University of Bologna, discussing the doctoral dissertation "Support Infrastructures for Multimedia Services with Guaranteed Continuity and QoS"
- In December 2003, I received my "**Abilitazione alla Professione**" (**Italian Professional Certificate**) in **Computer Engineering**
- In July 2003, I received my **Laurea with honors in Computer Engineering** from the University of Bologna, Italy, discussing the thesis "Multimedia Streaming Management Over Heterogeneous Wired/Wireless Networks"

### INTERNATIONAL INSTITUTIONAL APPOINTMENTS

- **Director of the IEEE Communications Society (ComSoc) Technical Committee (TC) Board (Europe, Middle-East, and Africa)**, in the years 2026 and 2027.
- **Elected Chair del IEEE Communications Society (ComSoc) Communications Systems Integration & Modeling (CSIM) Technical Committee**, in the years 2023 and 2024.
- **Director of the IEEE Communications Society (ComSoc) Region 8 (Europe, Middle-East, and Africa)**, in the years 2022 and 2023.
- **Board Member as Representative of the National Interuniversity Consortium for Informatics (CINI) in the Board of Networked European Software and Services Initiative (NESSI)**, the European association for the promotion of software research, development and innovation at the European Community level and in close dialogue with the European Commission, from March 2021 to December 2024.
- **Special Visiting Researcher (PVE)** at the State University of Santa Catarina (UDESC), Florianópolis, Brasile, within the project, "**Innovative technologies in the participatory management of the smart city**", 3rd Schedule - Calls for Projects n° 09/2014, years 2015-2017.

### NATIONAL INSTITUTIONAL APPOINTMENTS

- **Director of the Interdepartmental Center for Industrial Research ICT (CIRI ICT) of the University of Bologna**, from June 2022 to date.

- **Coordinator of the Bologna Node of the Embedded Systems & Smart Manufacturing (ESSM) Laboratory of the National Interuniversity Consortium for Informatics (CINI)**, from March 2022 to date.
- **Delegate for Internationalization** of the Department of Computer Science and Engineering (DISI) of the University of Bologna from 2018 until today under the direction of Antonio Corradi (2018-2021), Maurizio Gabbrielli (2021-2024) and Andrea Omicini (2024-present).
- **Member of the Board of the PhD Course in Computer Science and Engineering of the University of Bologna**, from April 2021 until today.
- **President of the Commission for the selection of candidates for the exchange program of the University of Bologna Overseas**, in the Subcommittee Brazil, Middle East, Africa from A.Y. 2021/2022 to date.
- **Member of the Commission for the conferral of the title of PhD in Information Technologies** - XXXVI cycle, University of Parma, 23 February 2024.
- **Member of the Examination Committees of the admission competition for the PhD course in Computer Science and Engineering** – 38th cycle – A.Y. 2022/2023, University of Bologna, first, second and third call, from June 2022 to January 2023.
- **Member of the PhD Board in Computer Science Engineering** - XXXIV cycle, University of Bologna, 23 June 2022.
- **Chairman of the Selection Committee for the comparative evaluation** for the selection of **University Researcher** pursuant to art. 24, paragraph 3, letter a) of Law no. 240 of 30 December 2010, SSD ING-INF/05, University of Trento, November 2022.
- **Member of the Selection Committee for the selection procedure for the filling of n. 1 position of University Researcher** with a fixed-term employment contract lasting 36 months with a fixed-term commitment regime pursuant to letter a) of art. 24, paragraph 3 of Law no. 240 of 30 December 2010, SSD ING-INF/05, University of Ferrara, October-November 2021.
- **Erasmus+ exchange manager of the University of Bologna** with School of Technology, Universidad de Extremadura (Spain) from A.Y. 2019/2020 to date.
- **Member of the Commission for the selection of candidates for the exchange program of the University of Bologna Overseas**, in the Canada and California Subcommittee from A.Y. 2017/2018 to A.Y. 2019/2020; it should also be noted that in the evaluation for A.Y. 2019/2020 Luca Foschini played the role of President of the subcommittee.
- **Erasmus+ exchange manager of the University of Bologna** with Faculty of Information Technology Brno University of Technology, Brno (Czech Republic) from A.Y. 2017/2018 to date.
- **Referent Section #4 "Structures for relations with the entrepreneurial ecosystem"** within the "Alma E Club" initiative of the University of Bologna, A.Y. 2017/2018.

## SCIENTIFIC ACTIVITIES

### MAIN ACHIEVEMENTS

Luca Foschini, Ph.D., is a **Full Professor** of Distributed and Mobile Systems at the Computer Science and Engineering Dept. (DISI) of the University of Bologna since November 2024. His research interests span from middleware for mobile computing in general to adaptive multimedia, from context-aware service composition to federated cloud computing resource management, from mobile crowdsensing to scalable online stream processing for smart cities.

From the point of view of his publication record (Google Scholar data – May 2026: h-index=42; i10-index=166; citations= 9344), he has co-authored more than 100 international journal/magazine articles (in publication venues that are considered the excellent ones in his research field, such as ACM Computing Surveys, Elsevier Pervasive and Mobile Computing, IEEE Transactions on Network and Service Management, IEEE Transactions on Computers, IEEE Transactions on Emerging Topics in Computing, IEEE Transactions on Cloud Computing, IEEE Transactions on Parallel and Distributed Systems, , IEEE Journal in Selected Areas in Communications, IEEE Communications Magazine, IEEE Pervasive Computing e IEEE Wireless Communications Magazine), guest-edited 6 special issues in international journals/magazines, co-authored 5 chapters in international books, and around 180

additional works published in other international venues (conferences, workshops etc.) such as CCGrid, ISWC, Globecom, ICC, VTC, LCN, CCNC, ISCC. For a complete list of publications, please refer to: <https://www.unibo.it/sitoweb/luca.foschini/pubblicazioni>.

In addition, Luca Foschini is serving/has served as General and TPC Co-Chair of several international venues including: IEEE CAMAD, IEEE ICC CQRM Symp, IEEE Globecom NGN Symp, IEEE ISCC, IEEE IWCMC Wireless Networking Symp, and several other workshops and special sessions within major IEEE ComSoc venues. Dr. Foschini is/has been also a member of the Editorial Boards of various international magazines/journals, including: IEEE COMST, IEEE Networking Letters, IGI IJHCR, IGI IJARAS, Hindawi IJDSB, and Hindawi WCMC. Moreover, he is a Senior Member of IEEE and a Member of ACM, he is **Director of the IEEE ComSoc Technical Committee (TC) Board (2026-2027)**, he has been Director of the IEEE ComSoc EMEA Region (2021-2022), and he has been Chair of the IEEE CSIM TC (2023-2024).

## **AWARDS AND RECOGNITIONS**

- **CNOM Best Paper Award for 2024**, “only one paper from the IEEE ComSoc CNOM community during the last two years is selected to win this award every year”, delivered by IEEE ComSoc CNOM Technical Committee, for the paper: Lorenzo Manca, Davide Borsatti; Filippo Poltronieri, Mattia Zaccarini, Domenico Scotece, Gianluca Davoli, Luca Foschini, Genady Ya. Grabarnik, Larisa Shwartz, Cesare Stefanelli, Mauro Tortonesi, Walter Cerroni, “Characterization of Microservice Response Time in Kubernetes: A Mixture Density Network Approach”.
- **CNSM 2023 IFIP-supported Best Paper Award**, 19th International IEEE Conference on Network and Service Management (CNSM), for the paper: Lorenzo Manca, Davide Borsatti; Filippo Poltronieri, Mattia Zaccarini, Domenico Scotece, Gianluca Davoli, Luca Foschini, Genady Ya. Grabarnik, Larisa Shwartz, Cesare Stefanelli, Mauro Tortonesi, Walter Cerroni, “Characterization of Microservice Response Time in Kubernetes: A Mixture Density Network Approach”.
- **Best Paper Award SloTEC 2023**, 13th IEEE International Workshop on Secure IoT, Edge and Cloud systems (SloTEC) 2023, for the paper: Javier Rojo, Jose García-Alonso, Javier Berrocal, Luca Foschini, Paolo Bellavista, Juan Hernández and Juan M. Murillo, “Blockchains' federation: Developing Personal Health Trajectory-centered health systems”.
- **Best Paper Award MoCS 2023**, 4th International Workshop on Management of Cloud Systems, for the paper: Sofia Montebugnoli e Luca Foschini, “A Multicloud Observability Support Based on Elasticsearch for Cloud-native Smart Cities Services”.
- **Elsevier Pervasive and Mobile Computing Best Survey 2019-2021**, for the paper: Paolo Bellavista, Javier Berrocal, Antonio Corradi, Sajal K. Das, Luca Foschini, Alessandro Zanni, “A survey on fog computing for the Internet of Things”, notification April 2023.
- **Best Paper Award ICC 2021**, 52nd IEEE International Conference on Communications 2021 (ICC 2021) - Communication QOS, Reliability & Modeling Symposium, for the paper: Armir Bujari, Antonio Corradi, Luca Foschini, Lorenzo Patera, Andrea Sabbioni, “Enhancing the Performance of Industry 4.0 Scenarios via Serverless Processing at the Edge”.
- **Best Paper Award GoodTech 2020**, 6th EAI International Conference on Smart Objects and Technologies for Social Good (GoodTech), for the paper: Armir Bujari, Claudio Bergamini, Antonio Corradi, Luca Foschini, Claudio Enrico Palazzi, Andrea Sabbioni, “A Geo-distributed Architectural Approach Favouring Smart Tourism Development in the 5G Era”.
- **Best Student Paper Award CAMAD 2019**, 24th International Workshop on Computer-Aided Modeling Analysis and Design of Communication Links and Networks (CAMAD), for the paper: I. Bedhief, L. Foschini, P. Bellavista, M. Kassar and T. Aguilí, “Toward Self-Adaptive Software Defined Fog Networking Architecture for IIoT and Industry 4.0”.
- **Best Paper Award ISCC 2019**, 24<sup>th</sup> IEEE International Symposium on Computers and Communications 2019 (ISCC 2019), for the paper: Stefano Chessa, Dimitri Belli, Antonio Corradi, Giampiero Di Paolo, Luca Foschini, Michele Girolami, “Selection of Mobile Edges for a Hybrid CrowdSensing Architecture”.
- **IEEE Senior Membership**, Luca Foschini was elevated to IEEE Senior Member in March 2019.

- **Best Paper Award ICC 2018**, 52<sup>nd</sup> IEEE International Conference on Communications 2018 (ICC 2018) - Communications Software Services and Multimedia Applications Symposium, for the paper: F. Foresta, W. Cerroni, L. Foschini, G. Davoli, C. Contoli, A. Corradi, F. Callegati, "Improving OpenStack Networking: Advantages and Performance of Native SDN Integration".
- **Pesquisador Visitante Especial (PVE)** at Universidade do Estado de Santa Catarina (UDESC), Florianopolis, Brazil, within the project, "**Tecnologias inovadoras na gestão participativa da cidade inteligente**", 3<sup>o</sup> Cronograma - Chamadas de Projetos n<sup>o</sup> 09/2014, years 2015-2017, Coordinator Prof. Carlos Roberto De Rolt. Luca Foschini was awarded this prestigious award (competitive selection with a selection procedure carried out by the Brazilian agency CAPES which involved international researchers from all over the world), within the framework program of the Brazilian government *Ciência sem Fronteiras*.
- **Special mention for the M.Sc. Degree Award "AICA (Italian Association for Computer Science and Automatic Calculation) and FEDERCOMIN - Year 2003"**, on 12.07.2004, for the thesis work that focused in an original way on mobile code models and technologies and their application in mixed fixed and mobile environments.
- **Visiting scholar** (as winner of Overseas scholarship of the University of Bologna) **at the University of Illinois at Urbana-Champaign (UIUC)**, Illinois, USA, where he developed part of his degree thesis under the supervision of Prof. Klara Nahrstedt, from August to September 2002.

## **RESEARCH TOPICS**

- Dynamic and Adaptive Distributed Services in Mobile Computing Environments:
  - Integrated management of networks, systems, and services
  - Distribution of continuous media flows with guarantees/indications of Quality of Service for handoff management of continuous service in heterogeneous wireless networks
  - Mobile code technologies for ubiquitous service provisioning
- Context-based mobile services and Context Data Distribution Infrastructures (CDDI)
- Session Management and Standardization Technologies for Next Generation Networks
- Management of Cloud Systems
- Support Infrastructures for Mobile Crowd-Sensing (MCS) Applications in Smart Cities Scenarios

## **RECENT COORDINATION AND PARTICIPATION ACTIVITIES IN RESEARCH PROJECTS**

- **Progetto PNRR Partenariato Esteso 14 "RESearch and innovation on future Telecommunications systems and network, to make Italy more smart (RESTART)"**, General Coordinator Prof. Nicola Blefari Melazzi, Scientific Coordinator Prof. Antonio Capone (2023-2026). Luca Foschini participates with the role of WP Leader of WP4 within the sub-project SUPER, and as a participant in the sub-projects PESCO and IN.
- **Progetto PNRR Campione Nazionale 1 "High Performance Computing, Big Data e Quantum Computing"**, General Coordinator Prof. Antonio Zoccoli (2022-2025). Luca Foschini takes part in the project as a participant in spokes 1 (Future HPC & Big Data) and 9 (CDT – IG).
- **Project Action 1.1.2 "Support for collaborative research projects of research laboratories and universities with companies" PR FESR Emilia-Romagna 2021-2027, "Gigapixel Imaging and large format paintings - GIGAPIXEL"**, Coordinator Prof. Marco Gaiani, University of Bologna (years 2024-2025). Within the project, Luca Foschini is **Principal Investigator of the local unit of CIRI ICT** – University of Bologna and tutor of research grants. Total funding: €500K, CIRI ICT funding: €103K.
- **Action Project 1.1.2 "Support for collaborative research projects of research laboratories and universities with companies" PR FESR Emilia-Romagna 2021-2027, "A Digital Twins-enabled platform for a Resilient and Sustainable production in the InduSTry 5.0 era (RESIST0)"**, Coordinator Dr. Giuseppe Di Modica, University of Bologna

- (years 2024-2026). Within the project Luca Foschini participates **in the unit of CIRI ICT – University of Bologna**. Total funding: €500K, CIRI ICT funding: €164K.
- **Axis I POR FESR Emilia-Romagna 2014-2020 Project, 2020 call to support research and innovation projects for the development of solutions aimed at combating the COVID-19 epidemic, "Support for Automatic Workflow for the management of Healthcare Personnel (SWAPS)"**, Coordinator and Principal Investigator Luca Foschini, University of Bologna (July-December 2020). Within the project, Luca Foschini is a tutor of research contracts. Total funding for the UNIBO partner only: € 120K.
  - **Axis I POR FESR Emilia-Romagna 2014-2020 Project, "Big Data In and Out Services for Industry 4.0: from shop-floor to after-sales (SBDIOI40)"**, Coordinator and Principal Investigator Luca Foschini, University of Bologna (years 2019-2021). Within the project, Luca Foschini is a tutor of research grants. Total funding: € 800K, UNIBO funding: € 220K.
  - **Axis 1 Project POR FESR Emilia-Romagna 2014-2020, "Technological components for inclusion in Teaching and Training"**, Coordinator Federico Bergenti, University of Parma (years 2019-2021). Within the project, Luca Foschini is Principal Investigator of the local unit of CIRI ICT – University of Bologna and tutor of research grants. Total funding: € 600K, UNIBO funding: € 179K.
  - **Three-year Higher Education Project in the cultural, economic and technological fields** pursuant to art. 2. Regional Law 25/2018, Emilia-Romagna Region, Regional Council Resolution no. 461 of 25/03/2019, **"Services and Innovation for Industry 4.0 (SII40)"**. Coordinator and Principal Investigator Luca Foschini, University of Bologna (from 2019 until date) for a consortium composed of 4 universities in the Emilia-Romagna region, led by the University of Bologna, participants University of Ferrara, University of Modena and Reggio and University of Parma. Total cost: € 540K, Emilia-Romagna Region funding: € 450K.
  - **Axis 1 Project POR FESR Emilia-Romagna 2014-2020, "Smart Architecture for Cultural Heritage in Emilia Romagna (SACHER)"**, Coordinator Prof. Rebecca Montanari, University of Bologna (2016-2018). Luca Foschini participated with the role of technical coordinator of the CIRI ICT unit.
  - **Pesquisador Visitante Especial (PVE) Project, "Tecnologias inovadoras na gestão participativa da cidade inteligente"**, financed by the Brazilian government through the 3<sup>o</sup> Cronograma - Chamadas de Projetos nº 09/2014, Coordinator Prof. Carlos Roberto De Rolt, Universidade do Estado de Santa Catarina (UDESC), Florianopolis, Brasil – Visiting Researcher Luca Foschini, Università degli Studi di Bologna (2015-2017).
  - **ParticipAct project, "ParticipAct: una piattaforma di crowdsensing su larga scala"**, funded through the **European Funds for Regional Development 2007-2013 (POR FESR 2007-2013)**, Coordinator Prof. Antonio Corradi, Technical Coordinator Luca Foschini (2015-2017).
  - **European 7th Framework Programme (FP7) Large-scale Integrating Project (IP), "Mobile Cloud Networking (MCN)"**, Coordinator Dr. Uwe Riss, SAP (Switzerland) AG (2012-2015).
  - **European ICT Work Programme of the 7th Framework Programme for Research and Technological Development, "Cooperative Self-Organizing System for low Carbon Mobility at low Penetration Rates (COLOMBO)"**, Coordinator Dr. Daniel Krajzewicz, Deutsches Zentrum für Luft- und Raumfahrt e.V. (DLR), Berlin, Germany (2012-2015).
  - **Artemis Joint Undertaking, Sub-Programme 3, "Smart Objects For Intelligent Applications (SOFIA)"**, Coordinator Dr. Petri Liuha, Nokia Research Finland (2009-2011).
  - **MIUR Negotiated Project FIRB, Strategic Program Enabling Technologies for the Information Society – Objective 2: Networks and Net-computing, "TOCAI: Knowledge-oriented Technologies for Internet-based Enterprise Aggregation"**, Coordinator Prof. Maurizio Lenzerini (2006-2008)
  - **MURST PRIN Project "MOMA: a middleware approach to MOBILE Multimodal web services"**, Coordinator Prof. Marco Rocchetti (2006-2007).
  - **CNR Strategic Project, Funding Area: Enabling Software Platforms for Complex Distributed Objects, "IS-MANET: Middleware for Mobile Ad Hoc Networks and their Applications"**, Coordinator Prof. Carlo Ghezzi (2003-2005).
  - **MIUR Negotiated Project FIRB, Strategic Program Enabling Technologies for the Information Society - Objective 2: Networks and Net-computing, "WEB-MINDS: Middleware for Advanced**

*Services over Large-Scale Wired-Wireless Systems*", Coordinator Prof. Giovanni Chiola (2003-2005).

## **RECENT REVIEWING AND ORGANIZATION ACTIVITIES**

- **Member of the Editorial Review Board** for international journals:
  - **IEEE Communications Surveys and Tutorials** (since 2021).
  - **IEEE Networking Letters** (since 2020).
  - **Wiley/Hindawi Wireless and Mobile Computing (WCMC)** (2016-2020).
  - **Hindawi International Journal of Distributed Sensor Networks** (2013-2020).
  - **IGI International Journal of Handheld Computing Research – IJHCR** (2009-2018).
  - **IGI International Journal of Adaptive, Resilient, and Autonomic Systems – IJARAS** (2009-2018).
  
- **Guest editor for the Special Issue of:**
  - **Special Issue di Elsevier Computer Networks (ComNet) su Computing Continuum and Federated Learning for Smart Cities** (ISSN: 1389-1286), February 2024.
  - **Special Issue di Elsevier Pervasive and Mobile Computing (PMC) su Intelligent Cloud-to-Thing Continuum in Industrial IoT Scenarios** (ISSN: 1574-1192), Vol. 85, September 2022.
  - **Special Issue di Elsevier Computer Networks (ComNet) su 26th IEEE Symposium on Computers and Communications (ISCC 2021) Selected Papers** (ISSN: 1389-1286), Vol. 214, September 2022.
  - **Special Issue di MDPI Sensors journal su Realization of Large-Scale Mobile Crowd Sensing Experiments** (ISSN: 1424-8220), March 2019.
  - **Special Issue del Journal Of Computational Science (JOCS) on the Performance Evaluation of Communications su Distributed Systems and Web based Service Architectures (PEDISWESA) Workshop** (ISSN: 1877-7503), Vol. 22, October 2017.
  - **Special Issue di International Journal Network Protocols and Algorithms (NPA) su Cloud Computing Systems, Networks, and Applications** (ISSN: 1943-3581), Vol. 6, No. 4, April 2014.
  - **Special Issue di IGI International Journal of Adaptive, Resilient, and Autonomic Systems (IJARAS) su Adaptive and Dependable Mobile Ubiquitous Systems (ADAMUS) Workshop**, Vol. 1, No. 2, April 2010.
  
- **Reviewer for the international journals/magazines:**
  - **IEEE Communications Surveys and Tutorials** since 2021
  - **IEEE Transactions on Mobile Computing** since 2015
  - **IEEE Transactions on Cloud Computing** since 2013
  - **IEEE Transactions on Computers** since 2012
  - **IEEE Transactions on Network and Service Management** since 2009
  - **IEEE Sensors Journal** since 2013
  - **IEEE Journal on Selected Areas in Communications** since 2012
  - **IEEE Pervasive Computing Magazine** since 2017
  - **IEEE Wireless Communications Magazine** since 2007
  - **IEEE Network Magazine** since 2007
  - **IEEE Communications Magazine** since 2006
  - **IEEE Networking Letters** since 2020
  - **ACM Computing Surveys** since 2017
  - **Elsevier Ad Hoc Networks Journal** since 2012
  - **Elsevier Computer Networks Journal** since 2011
  - **Elsevier Journal of Systems and Software** since 2011
  - **Elsevier Pervasive and Mobile Computing Journal** since 2011
  - **Elsevier Future Generation Computer Systems** since 2011

- **Elsevier Journal of Systems Architecture** since 2010
- **Elsevier Journal of Network and Computer Applications** since 2010
- **Elsevier Computer Communications Journal** since 2008
- **Elsevier Journal of Parallel and Distributed Computing** since 2006
- **Elsevier Journal on Computers and Electrical Engineering** since 2006
- **ACM/Springer Journal on Mobile Networks and Applications** since 2008
- **Springer Journal of Network and Systems Management** since 2007
- **Wiley/Hindawi Wireless Communications and Mobile Computing** 2008-2020
- **Hindawi International Journal of Distributed Sensor Networks** 2013-2020
- **Oxford Computer Journal** since 2013
  
- **Member of the Steering Committee** of the following international conferences and workshops:
  - **International Workshop on Adaptive and Dependable Mobile Ubiquitous Systems (ADAMUS)** (2007-2011)
  - **IEEE International Workshop on Management of Cloud Systems** since 2011
  
- **General Co-Chair** of the following international conferences and workshops:
  - **ISCC'25**, IEEE International Symposium on Computers and Communications, Bologna, Italy, July 2025.
  - **IEEE CAMAD'23**, International Workshop on Computer-Aided Modelling Analysis and Design of Communication Links and Networks, Edinburgh, Scotland, 6-8 November 2023.
  - **ISCC'21**, IEEE International Symposium on Computers and Communications, Athens, Greece, September 2021.
  - **IEEE CAMAD'20**, International Workshop on Computer-Aided Modelling Analysis and Design of Communication Links and Networks, Virtual Conference, September 2020.
  
- **Technical Program Co-Chair** of the following international conferences and workshops:
  - **IEEE GLOBECOM Workshop – SRIN'23**, 2023 IEEE Globecom Workshops (GC Wkshps): 3rd Workshop on Sustainable and Resilient Industrial Networks, December 2023.
  - **WINCOM'22**, 9th International Conference on Wireless Networks and Mobile Communications (WINCOM), Virtual Conference, October 2022.
  - **IEEE ICC'22**, IEEE International Conference on Communications (ICC): Communication QoS, Reliability and Modeling Symposium, Virtual Conference, May 2022.
  - **ICC'21 Workshop - FINP'21**, WS20 IEEE ICC 2021 Workshop on Future Industrial Network Protocols, June 2021.
  - **IEEE BlackSeaCom'21**, IEEE International Black Sea Conference on Communications and Networking, Virtual Conference, May 2021.
  - **ICNC'20 NAPE**, 2020 International Conference on Computing, Networking and Communications (ICNC): Network Algorithms and Performance Evaluation symposium, February 2020.
  - **ICTE'20**, 2020 International Conference on Technology and Entrepreneurship (ICTE), September 2020.
  - **IEEE GLOBECOM'19**, 2019 IEEE Global Communications Conference: Next-Generation Networking and Internet Symposium, Hawaii, December 2019.
  - **IEEE CAMAD'18**, International Workshop on Computer-Aided Modelling Analysis and Design of Communication Links and Networks, Barcelona, Spain, September 2018.
  - **IEEE MC'17**, IEEE International Conference on Mobile Computing, San Francisco, USA, April 2016.
  - **ISCC'16**, IEEE International Symposium on Computers and Communications, 2016.
  - **ICC'15 Workshop - CCSNA'15**, IEEE ICC 2015 - Workshop on Cloud Computing Systems, Networks, and Applications (CCSNA), 2015.
  - **IEEE VTC-Fall'14**, Transportation, Vehicular Networks, and Telematics track, Vancouver, Canada, 2014.
  - **Q2SWinet**, ACM International Symposium on QoS and Security for Wireless and Mobile Networks, years 2013, 2014 and 2015.

- **IWCMC-WNS**, International Wireless Communication and Mobile Computing (IWCMC) - Wireless Networking Symposium, years 2012-2019.
  - **MoCS**, IEEE International Workshop on Management of Cloud Systems, years 2011, 2012, 2013, 2014, 2015 e 2018.
  - **MediaWIN'09**, International Workshop on multiMedia Applications over Wireless Networks, tenuto insieme a IEEE Symposium on Computers and Communications – ISCC, July 2009;
  - **ADAMUS'09**, International Workshop on Adaptive and DependAble Mobile Ubiquitous Systems, London, UK, July 2009.
- **Member of the Technical Program Committee** of the international conferences/workshops (I report a selection):
- **5GWF**, IEEE 5G World Forum (2020-2021);
  - **AAA-IDEA**, International Workshop on Advanced Architectures and Algorithms for Internet DElivery and Applications (AAA-IDEA) within ICST International Conference on Heterogeneous Networking for Quality, Reliability, Security and Robustness (QShine 2009) (2009);
  - **ADAMUS**, International Workshop on Adaptive and DependAble Mobile Ubiquitous Systems (ADAMUS) within IEEE International Symposium on World of Wireless Mobile and Multimedia Networks – WoWMoM (2007 and 2008), a ACM International Conference on Pervasive Services – ICPS (2009 and 2010) e a IEEE/IFIP International Conference on Dependable Systems and Networks – DSN (2011);
  - **CAMAD**, IEEE International Workshop on Computer Aided Modeling Analysis and Design of Communication Links and Networks (since 2012);
  - **CCNC**, IEEE Consumer Communications and Networking Conference (since 2023);
  - **CCSNA**, IEEE Globecom International Workshop on Cloud Computing Systems, Networks, and Applications (since 2013);
  - **CNSM**, IFIP/IEEE International Conference on Network and Service Management (since 2016);
  - **CLOUDNET**, IEEE International Conference on Cloud Networking (years 2015-2016);
  - **Cloud Summit**, IEEE Cloud Summit conference by IEEE Technical Committee on Cloud Computing (since 2020);
  - **CoCoNet**, International Conference on Computing and Network Communications (years 2015, 2018 e 2023);
  - **CSC**, IEEE International Conference on Cloud and Service Computing (since 2011);
  - **CSE**, IEEE International Conference on Computational Science and Engineering (nell'anno 2010);
  - **EuCNC & 6G Summit**, European Conference on Networks and Communications (since 2021);
  - **GIIS**, IEEE International Global Information Infrastructure Symposium, IEEE Computer Society Press (nell'anno 2007);
  - **GLOBECOM**, IEEE Global Communications Conference, serve in diversi simposia tra cui CQRM, MWN, NGNI, SAC SN, AHSN (since 2011);
  - **ICC**, IEEE International Conference on Communications, serve in diversi simposia tra cui CQRM, MWN, NGNI, SAC SN, AHSN (since 2011);
  - **ICCVE**, International Conference on Connected Vehicles and Expo (years 2012-2016)
  - **ICNC**, International Conference on Computing, Networking, and Communications (dal 2013)
  - **ICT**, International Conference on Telecommunications (years 2016-2020)
  - **IM**, IFIP/IEEE International Symposium on Integrated Network Management (nell'anno 2011);
  - **ISCC**, IEEE Symposium on Computers and Communications – ISCC (since 2011);
  - **ITU-K**, ITU Kaleidoscope (since 2016)
  - **IWCMC**, International Wireless Communication and Mobile Computing (since 2014)
  - **Kaleidoscope**, ITU/IEEE International Conference (since 2009);
  - **LCN**, IEEE International Conference on Local Computer Networks (years 2013-2016);

- **MediaWIN**, International Workshop on multiMedia Applications over Wireless Networks, tenuto insieme a IEEE Symposium on Computers and Communications – ISCC (since 2009);
  - **MedComNet**, Mediterranean Communications and Computer Networking Conference (since 2020)
  - **MeditCom**, IEEE International Mediterranean Conference on Communications and Networking (since 2021)
  - **MobileLearning**, IADIS International Conference on Mobile Learning (since 2008);
  - **MobileCloud**, IEEE Mobile Cloud 2015 (nell'anno 2015);
  - **MoCS**, IEEE International Workshop on Management of Cloud Systems (since 2011);
  - **MSWiM**, ACM international Conference on Modeling, Analysis and Simulation of Wireless and Mobile Systems (since 2017)
  - **Networking**, IFIP Networking Conference (year 2024)
  - **NFV-SDN**, IEEE International Conference on Network Function Virtualization and Software Defined Networking (since 2016)
  - **NOMS**, IFIP/IEEE Network Operations and Management Symposium (since 2012);
  - **PerCol**, International Workshop on Communication, Collaboration and Social Networking in Pervasive Computing Environments, tenuto insieme a IEEE International Conference on Pervasive Computing and Communications – PerCom (since 2010);
  - **PIMRC**, IEEE International Symposium on Personal, Indoor and Mobile Radio Communications (nell'anno 2008);
  - **Q2SWinet**, ACM International Symposium on QoS and Security for Wireless and Mobile Networks (years 2013, 2014 e 2015);
  - **SigTelCom**, International Conference on Recent Advances in Signal Processing, Telecommunications, and Computing (years 2018-2020)
  - **TNS**, IADIS International Conference on Telecommunications, Networks and Systems (nell'anno 2009);
  - **WCNC**, IEEE International Conference on Wireless Communications and Networking, Services Track (since 2009);
  - **WF-PST**, IEEE World Forum on Public Safety Technology (nell'anno 2024)
  - **WiMob**, IEEE International Conference on Wireless and Mobile Computing, Networking and Communications (since 2020);
  - **WINCOM**, International Conference on Wireless Networks and Mobile Communications (since 2019)
  - **WMuNeP**, ACM International Workshop on Wireless Multimedia Networking and Performance Modeling tenuto insieme a ACM International Conference on Modeling, Analysis, and Simulation of Wireless and Mobile Systems – MSWiM'09 (year 2009);
  - **WoWMoM**, IEEE International Symposium on World of Wireless Mobile and Multimedia Networks (since 2010).
- **Panelist** for the international conferences/workshops:
    - **IEEE/IFIP Network Operations and Management Symposium (NOMS)**, Rome, Italy, 2026.
    - **IEEE IFIP/IEEE International Symposium on Integrated Network Management (IM'21)**, panel “Intelligent Management of Future Industrial Networks”, Virtual Conference 2021.
    - **IEEE Canadian Conference on Electrical and Computer Engineering (IEEE CCECE 2021)**, panel “IoT Connectivity”, Virtual Conference, 2021.
    - **ACM International Conference on Pervasive Services (ICPS)**, London, UK, 2009.
  - **Keynote speaker** for the international conferences/workshops:
    - **IEEE International Workshop on Sustainable and Resilient Industrial Networks**, Kuala Lumpur, Malesia, in December 2023.
    - **IEEE International Workshop on BlockSecSDN: Blockchain for Secure Software-defined Networking in Smart Communities**, Rome, Italy, May 2023.
    - **IEEE International Workshop on Management of Cloud Systems**, Barcelona, Spain, June 2019.

- **RCIS Workshop of the Spanish Excellence Network on Service Science and Engineering**, Plasencia, Spagna, March 2019.
- **DERI Workshop on Cloud**, Galway, Ireland, September 2011.
- **IEEE International Workshop on Performance and Management of Wireless and Mobile Networks (P2MNET)**, Zurich, Switzerland, October 2009.
- **Tutorial speaker** in conferenze internazionali:
  - L. Foschini, M. Girolami, “**Human-enabled Edge Computing: Convergence of Mobile CrowdSensing and Multi-access Edge Computing for Next-Generation Smart Systems**”, tutorial within IEEE 27th IEEE International Conference on Mobile Data Management (MDM), Athens, Greece, June 2026.
  - L. Foschini, M. Girolami, “**From Participatory to Opportunistic Mobile Crowd Sensing: Techniques and Research Challenges**”, tutorial all’interno di IEEE Mobile Cloud (MC’17), San Francisco, USA, April 2017.
  - L. Foschini, M. Girolami, “**From Participatory to Opportunistic Mobile Crowd Sensing: Techniques and Research Challenges**”, tutorial all’interno di IEEE International Symposium on Computers and Communications (ISCC’17), Heraklion, Crete, Greece, July 2017.
- Dr. Foschini hold **several seminars** at the following international universities/research bodies:
  - **University of Extremadura** (Caceres, Spain) with several collaborations in place with the group SPILab led by prof. Javier Berrocal.
  - **University of Campinas** (Campinas, Sao Paolo, Brazil) with several collaborations in place with the group of prof. Nelson Fonseca.
  - **University of Ottawa** (Ottawa, Canada) where he collaborates with the PARADISE Lab led by prof. Azzedine Boukerche and with the NEXTCON Lab led by Prof. Burak Kantarci.
  - **UDESC** (Florianopolis, Brazil) where he was Pesquisator Visitante Especial (PVE) and collaborates with LabGES led by prof. Carlos Roberto De Rolt.
  - **Concordia University** (Montreal, Canada) where he collaborates with prof. Roch Glitho.
  - **University of Granada** (Granada, Spagna), where he collaborates with prof. J.M. Lopez-Soler.
- **Local Arrangement Co-Chair** of the IEEE Symposium on Computers and Communications 2010 (**ISCC’10**), Rimini, Italy, Jun. 22-25, 2010
- **Workshop Chair** for **ISCC’11**, IEEE International Symposium on Computers and Communications (ISCC), Kerkyra, Greece, Jun. 2011
- **Publicity Chair** for the international conferences/workshops:
  - **ADAMUS’07**, Workshop on Adaptive and DependAble Mobile Ubiquitous Systems (ADAMUS), within IEEE International Symposium on World of Wireless Mobile and Multimedia Networks – WoWMoM, Helsinki, Finland, Jun. 2007;
  - **ADAMUS’09**, International Workshop on Adaptive and DependAble Mobile Ubiquitous Systems, London, UK, Jul. 2009;
  - **MediaWiN’09**, IEEE International Workshop on multiMedia Applications over Wireless Networks, Sousse, Tunisia, Jul. 2009;
  - **MediaWiN’10**, IEEE International Workshop on multiMedia Applications over Wireless Networks, Rimini, Italy, Jun. 2010.
- **Session chair** for the international conferences/workshops including ISCC, SIUMI, MUE, MediaWin, ADAMUS, MoCS, VTC, ICC, GC.
- **Reviewer** for the international conferences/workshops:
  - **AAA-IDEA**, International Workshop on Advanced Architectures and Algorithms for Internet DELivery and Applications (AAA-IDEA), within ICST International Conference on

- Heterogeneous Networking for Quality, Reliability, Security and Robustness (QShine 2009) – WoWMoM (2009);
- **ADAMUS**, Workshop on Adaptive and Dependable Mobile Ubiquitous Systems (since 2007);
  - **ANSS**, SCS/ACM-SIGSIM International Annual Simulation Symposium (2009);
  - **CNSM**, IFIP/IEEE International Conference on Network and Service Management (2010);
  - **COMPSAC**, 31st Annual IEEE International Computer Software and Applications Conference, IEEE Computer Society Press (since 2007);
  - **CSE**, IEEE International Conference on Computational Science and Engineering (2010);
  - **GIIS**, IEEE International Global Information Infrastructure Symposium, IEEE Computer Society Press (2007);
  - **Globecom**, sessioni supportate da Communications Quality & Reliability (CQR) Technical Committee, IEEE Computer Society Press (since 2006);
  - **HiPC**, IEEE International Conference on High Performance Computing (2008);
  - **HotP2P**, IEEE International Workshop on Hot Topics in Peer-to-Peer Systems, within IEEE International Parallel & Distributed Processing Symposium – IPDPS, IEEE Computer Society Press (since 2005);
  - **ICC**, sessioni supportate da by Communications Quality & Reliability (CQR) Technical Committee, IEEE International Conference on Communications, IEEE Computer Society Press (since 2007);
  - **ICCCN**, 16th IEEE International Conference on Computer Communications and Networks, IEEE Computer Society Press (2007);
  - **IM**, IFIP/IEEE International Symposium on Integrated Network Management (2011);
  - **INGN**, co-sponsored ITU-T and IEEE International Conference on Innovations in Next Generation Networks, IEEE Computer Society Press (2008);
  - **ISCC**, IEEE International Symposium on Computers and Communications, IEEE Computer Society Press (since 2005);
  - **ISWPC**, IEEE International Symposium on Wireless Pervasive Computing (2008);
  - **IWUC**, International Workshop on Ubiquitous Computing, within International Conference on Enterprise Information Systems – ICEIS (2005);
  - **Kaleidoscope**, ITU/IEEE International Conference (since 2009);
  - **LCN**, IEEE International Conference on Local Computer Networks (2009);
  - **MediaWiN**, IEEE Workshop on multiMedia Applications over Wireless Networks within IEEE Symposium on Computers and Communications – ISCC (since 2006);
  - **MMNS**, IFIP/IEEE International Conference on Management of Multimedia and Mobile Networks and Services (2009);
  - **MobileLearning**, IADIS International Conference on Mobile Learning (since 2008);
  - **Mobilware**, International Conference on Mobile Wireless Middleware, Operating Systems, and Applications, Springer Lecture Notes of ICST series (since 2008);
  - **MobiMedia**, ACM International Mobile Multimedia Communications Conference (2009);
  - **MoViD**, ACM International Workshop on Mobile Video Delivery, within ACM Multimedia (2010);
  - **PerCol**, International Workshop on Communication, Collaboration and Social Networking in Pervasive Computing Environments, within IEEE International Conference on Pervasive Computing and Communications – PerCom (since 2010);
  - **PerCom**, IEEE International Conference on Pervasive Computing and Communications, IEEE Computer Society Press (years 2004 e 2006);
  - **PE-WASUN**, ACM International Symposium on Performance Evaluation of Wireless Ad Hoc, Sensor, and Ubiquitous Networks (2009);
  - **PIMRC**, IEEE International Symposium on Personal, Indoor and Mobile Radio Communications (2008);
  - **PWC**, International Conference on Personal Wireless Communications;
  - **SASO**, First IEEE International Conference on Self-Adaptive and Self-Organizing Systems, IEEE Computer Society Press (2007);
  - **TNS**, IADIS International Conference on Telecommunications, Networks and Systems (2009);

- **UIC**, IEEE International Conference on Ubiquitous Intelligence and Computing, Springer Verlag Lecture Notes in Computer Science (2007);
- **VTC-Spring**, IEEE Vehicular Technology Conference Spring (2010);
- **WCNC**, IEEE International Conference on Wireless Communications and Networking, Services Track (since 2008);
- **WiMob**, IEEE International Conference on Wireless and Mobile Computing, Networking and Communications (2010);
- **WMuNeP**, ACM International Workshop on Wireless Multimedia Networking and Performance Modeling, within ACM International Conference on Modeling, Analysis, and Simulation of Wireless and Mobile Systems – MSWiM'09 (2009);
- **WoWMoM**, IEEE International Symposium on World of Wireless Mobile and Multimedia Networks, IEEE Computer Society Press (since 2005).

## **PUBLICATIONS (in publication order)**

### **International Journal and Magazines**

- RI1** P. Bellavista, A. Corradi, L. Foschini:  
**“The MUM Middleware to Counteract IEEE 802.11 Performance Anomaly in Context-aware Multimedia Provisioning”**,  
**International Journal of Multimedia and Ubiquitous Engineering**, SERSC Publisher, Vol. 2, No. 2, pages 15-32, July 2007.
- RI2** P. Bellavista, A. Corradi, L. Foschini:  
**“Context-Aware Handoff Middleware for Transparent Service Continuity in Wireless Networks”**,  
**Pervasive and Mobile Computing Journal**, Elsevier Science, Vol. 3, No. 4, pages 439-466, August 2007.
- RI3** P. Bellavista, A. Corradi, L. Foschini:  
**“Dynamic and Context-aware Streaming Adaptation to Smooth Quality Degradation due to IEEE 802.11 Performance Anomaly”**,  
**Springer Journal of Supercomputing**, Special Issue on Multimedia and Ubiquitous Engineering, Springer-Verlag, Vol. 45, No. 1, pages 15-28, July 2008.
- RI4** P. Bellavista, A. Corradi, L. Foschini:  
**“IMS-based Presence Service with Enhanced Scalability and Guaranteed QoS for Inter-Domain Enterprise Mobility”**,  
**IEEE Wireless Communications Magazine**, Special Issue on Enterprise Mobility Services, IEEE Communications Society, Vol. 16, No.3, pages 16-23, June 2009.
- RI5** P. Bellavista, M. Cinque, D. Cotroneo, L. Foschini:  
**“Self-Adaptive Handoff Management for Mobile Streaming Continuity”**,  
**IEEE Transactions on Network and Service Management**, IEEE Communications Society, Vol. 6, No. 2, pages 80-94, June 2009.
- RI6** A. Corradi, M. Fanelli, L. Foschini:  
**“Towards Adaptive and Scalable Context-Aware Middleware”**,  
 Invited paper nel primo numero di **IGI International Journal of Adaptive, Resilient, and Autonomic Systems (IJARAS)**, IGI Global, Vol. 1, No. 1, pages 58-74, January-March 2010.
- RI7** P. Bellavista, A. Corradi, L. Foschini:  
**“IMS-compliant Management of Vertical Handoffs for Mobile Multimedia Session Continuity”**,  
**IEEE Communications Magazine**, IEEE Communications Society, Vol. 48, No. 4, pages 114-121, April 2010.
- RI8** P. Bellavista, A. Corradi, L. Foschini:  
**“LEM: a Cooperative and Self-Organizing Flow Relaying Middleware for Multimedia Continuity in Dense Hybrid Wireless Networks”**,

- Invited paper in **IEEE Technical Committee on Multimedia Communications E-Letter**, IEEE Communications Society, Vol. 5, No. 5, pages 62-66, September 2010.
- RI9** G. Cardone, A. Corradi, L. Foschini:  
**“Cross-Network Opportunistic Collection of Urgent Data in Wireless Sensor Networks”**,  
**The Computer Journal**, Oxford Journals, BCS - The Chartered Institute for IT, Special Issue on Mobility in Wireless Sensor Networks, Vol. 54, No. 12, pages 1949-1962, November 2011.
- RI10** P. Bellavista, G. Cardone, A. Corradi, L. Foschini:  
**“The Future Internet Convergence of IMS and Ubiquitous Smart Environments: an IMS-Based Solution for Energy Efficiency”**,  
**Elsevier Journal of Network and Computer Applications**, Special Issue on Intelligent Algorithms for Data-Centric Sensor Networks, Vol. 35, No. 4, pages 1203–1209, July 2012.
- RI11** A. Corradi, M. Fanelli, L. Foschini:  
**“A Survey of Context Data Distribution for Mobile Ubiquitous Systems”**,  
**ACM Computing Surveys (CSUR)**, ACM Press, Vol. 44, No. 4, Article 24, pages 1-45, August 2012.
- RI12** L. Foschini, T. Taleb, A. Corradi, D. Bottazzi:  
**“M2M-Based Metropolitan Platform for IMS-Enabled Road Traffic Management in IoT”**,  
**IEEE Communications Magazine**, Special Issue on The Internet of Things, Vol. 49, No. 11, pages 50-57, November 2011.
- RI13** M. Adeyeye, N. Ventura, L. Foschini:  
**“Converged Multimedia Services in Emerging Web 2.0 Session Mobility Scenarios”**,  
**Springer Wireless Networks Journal**, Vol. 18, No. 2, pages 185-197, February 2012.
- RI14** G. Cardone, A. Corradi, L. Foschini, R. Montanari:  
**“Socio-Technical Awareness to Support Recommendation and Efficient Delivery of IMS-Enabled Mobile Services”**,  
**IEEE Communications Magazine**, IEEE Communications Society, Special Issue on Social Networks Meet Mobile Networks, Vol. 50, No. 6, pages 82-90, June 2012.
- RI15** P. Bellavista, A. Corradi, L. Foschini:  
**“Self-organizing Seamless Multimedia Streaming in Dense MANETs”**,  
**IEEE Pervasive Computing**, IEEE Computing Society, Vol. 12, No. 1, pages 68-78, January 2013.
- RI16** A. Corradi, L. Foschini, M. Fanelli, M. Cinque:  
**“Context data distribution with quality guarantees for Android-based mobile systems”**,  
**Security and Communication Networks**, John Wiley & Sons, Vol. 6, No. 4, pages 450-460, April 2013.
- RI17** G. Cardone, A. Cirri, A. Corradi, L. Foschini, D. Maio:  
**“MSF: An Efficient Mobile Phone Sensing Framework”**,  
**International Journal of Distributed Sensor Networks**, Hindawi, Vol. 2013, Article ID 538937, 9 pages, 2013. doi:10.1155/2013/538937, January 2013.
- RI18** G. Cardone, L. Foschini, C. Borcea, P. Bellavista, A. Corradi, M. Talasila, R. Curtmola:  
**“Fostering ParticipAction in Smart Cities: A Geo-Social CrowdSensing Platform”**,  
**IEEE Communications Magazine**, IEEE Communications Society, SI on Smart Cities, Vol. 51, No. 6, pages 112-119, June 2013.
- RI19** P. Bellavista, G. Cardone, A. Corradi, L. Foschini:  
**“Convergence of MANET and WSN in IoT urban scenarios”**,  
**IEEE Sensors Journal**, IEEE Communications Society, SI on Internet of Things, Vol. 13, No. 10, pages 3558-3567, October 2013.
- RI20** A. Boukerche, A. Corradi, M. Fanelli, L. Foschini:  
**“Self-Adaptive Context Data Distribution with Quality Guarantees in Mobile P2P Networks”**,  
**IEEE Journal on Selected Areas in Communications (JSAC)**, JSAC Series on Emerging Technologies in Communications (Area 2: Peer-to-Peer Networking), Vol. 31, No. 9, pages 115-131, IEEE Computing Society, September 2013.
- RI21** A. Corradi, M. Fanelli, L. Foschini:  
**“VM consolidation: A real case based on OpenStack Cloud”**,

- Future Generation Computer Systems**, Elsevier Science, Special Issue on Management of Cloud Systems, Vol. 32, DOI: 10.1016/j.future.2012.05.012, pages 118-127, March 2014.
- RI22** P. Bellavista, A. Corradi, L. Foschini:  
**“Enhancing Intra-Domain Scalability of IMS-based Services”**,  
**IEEE Transactions on Parallel and Distributed Systems**, IEEE Computing Society, Vol. 24, No. 12, pages 2386-2395, DOI: 10.1109/TPDS.2012.312, December 2013.
- RI23** J. Povedano-Molina, J. M. Lopez-Vega, J.M. Lopez-Soler, A. Corradi, L. Foschini:  
**“DARGOS: a Highly Adaptable and Scalable Monitoring Architecture for Multi-Tenant Clouds”**,  
**Future Generation Computer Systems**, Elsevier Science, Special Issue on Cloud Monitoring Systems, Vol. 29, No. 8, pages 2041-2056, DOI: 10.1016/j.future.2013.04.022, October 2013.
- RI24** M. Fanelli, L. Foschini, A. Corradi, A. Boukerche:  
**“Self-Adaptive Context Data Management in Large-Scale Mobile Systems”**,  
**IEEE Transactions on Computers**, IEEE Computer Society, Vol. 63, No. 10, pages 2549-2562 DOI: 10.1109/TC.2013.133, October 2014.
- RI25** B. Kantarci, L. Foschini, A. Corradi, H.T. Mouftah:  
**“Design of energy-efficient cloud systems via network and resource virtualization”**,  
**Journal of Network Management**, Wiley, Vol. 25, No. 2, pages 75-94, DOI: 10.1002/nem.1838, March/April 2015.
- RI26** P. Bellavista, A. Corradi, L. Foschini, A. Pernafini:  
**“Towards an Automated BPEL-based SaaS Provisioning Support for OpenStack IaaS”**,  
**Scalable Computing: Practice and Experience**, West University of Timisoara, Romania, Vol. 14, No. 4, pages 235–247, December 2013.
- RI27** G. Cardone, A. Cirri, A. Corradi, L. Foschini, R. Ianniello, R. Montanari:  
**“Crowdsensing in Urban Areas for City-Scale Mass Gathering Management: Geofencing and Activity Recognition”**,  
**IEEE Sensors Journal**, IEEE Communications Society, SI on Internet of Things, Vol. 14, No. 12, pages 4185-4195, December 2014.
- RI28** G. Cardone, A. Cirri, A. Corradi, L. Foschini:  
**“The ParticipAct Mobile Crowd Sensing Living Lab: The Testbed for Smart Cities”**,  
**IEEE Communications Magazine**, IEEE Communications Society, Vol. 52, No. 10, pages 78-85, October 2014.
- RI29** P. Bellavista, G. Cardone, A. Corradi, L. Foschini:  
**“Crowdsensing in Smart Cities: the ParticipAct Experience”**,  
 Invited paper in **IEEE Technical Committee on Multimedia Communications E-Letter**, IEEE Communications Society, Vol. 9, No. 5, pages 40-43, September 2014.
- RI30** G. Cardone, A. Corradi, L. Foschini, R. Ianniello:  
**“ParticipAct: a Large-Scale Crowdsensing Platform”**,  
**IEEE Transactions on Emerging Topics in Computing**, IEEE Communications Society, Vol. 4, No. 1, pages 21-32, DOI: 10.1109/TETC.2015.2433835, January-March 2016.
- RI31** P. Bellavista, A. Corradi, L. Foschini, R. Ianniello:  
**“Scalable and cost-effective assignment of mobile crowdsensing tasks based on profiling trends and prediction: The ParticipAct living lab experience”**,  
**Sensors**, Multidisciplinary Digital Publishing Institute (MDPI), Vol. 15, No. 8, pages 18613-18640, July 2015.
- RI32** P. Bellavista, F. Callegati, W. Cerroni, C. Contoli, A. Corradi, L. Foschini, A. Pernafini, G. Santandrea:  
**“Virtual network function embedding in real cloud environments”**,  
**Computer Networks**, Elsevier, Vol. 93, Part 3, pages 506-517, December 2015.
- RI33** L. Foschini, R. Montanari, A. Boukerche, A. Corradi:  
**“Scalable and mobile context data retrieval and distribution for community response heterogeneous wireless networks”**,  
**IEEE Communications Magazine**, IEEE Communications Society, Vol. 54, No. 4, pages 101-107, April 2016.
- RI34** S. Chessa, A. Corradi, L. Foschini, M. Girolami:

- “Empowering mobile crowdsensing through social and ad hoc networking”**,  
**IEEE Communications Magazine**, IEEE Communications Society, Vol. 54, No. 7, pages 108-114, July 2016.
- RI35** G. Martuscelli, A. Boukerche, L. Foschini, P. Bellavista:  
**“V2V protocols for traffic congestion discovery along routes of interest in VANETs: a quantitative study”**,  
**Wireless Communications and Mobile Computing Journal**, Wiley, Vol. 16, No. 17, pages 2907-2923, December 2016.
- RI36** S. Chessa, M. Girolami, R. Ianniello, L. Foschini, A. Corradi:  
**“Mobile crowd sensing management with the ParticipAct living lab”**,  
**Pervasive and Mobile Computing Journal**, Elsevier Science, Vol. 38, Part 1, pages 200-214, July 2017.
- RI37** M. Pouryazdan, B. Kantarci, T. Soyata, L. Foschini, H. Song:  
**“Quantifying user reputation scores, data trustworthiness, and user incentives in mobile crowd-sensing”**,  
**IEEE Access**, IEEE Communications Society, Vol. 5, pages 1382-1397, March 2017.
- RI38** P. Bellavista, A. Boukerche, T. Campanella, L. Foschini:  
**“The Trap Coverage Area Protocol for Scalable Vehicular Target Tracking”**,  
**IEEE Access**, IEEE Communications Society, Vol. 5, pages 2169-3536, March 2017.
- RI39** L. Acquaviva, P. Bellavista, F. Bosi, A. Corradi, L. Foschini, S. Monti, A. Sabbioni:  
**“NoMISHAP: A Novel Middleware Support for High Availability in Multicloud PaaS”**,  
**IEEE Cloud Computing**, IEEE Computer Society, Vol. 4, No. 4, pages 60-72, April 2017.
- RI40** M. Cinque, A. Corradi, L. Foschini, F. Frattini, J. Podevano-Molina:  
**“GAMESH: A grid architecture for scalable monitoring and enhanced dependable job scheduling”**,  
**Future Generation Computer Systems**, Elsevier Science, Vol. 71, pages 192-201, June 2017.
- RI41** B.A. Bensaber, L. Foschini:  
**“Performance evaluation of communications in distributed systems and web-based service architectures”**, editorial for the Special Issue on the PEDISWESA’16 workshop,  
**Journal of Computational Science**, Elsevier, Vol. 22, pages 237-239, September 2017.
- RI42** J. De Benedetto, P. Bellavista, L. Foschini:  
**“Proximity discovery and data dissemination for mobile crowd sensing using LTE direct”**,  
**Computer Networks**, Elsevier, Vol. 129, Part 2, pages 510-521, December 2017.
- RI43** P. Bellavista, S. Chessa, L. Foschini, L. Gioia, M. Girolami:  
**“Human-Enabled Edge Computing: Exploiting the Crowd as a Dynamic Extension of Mobile Edge Computing”**,  
**IEEE Communications Magazine**, IEEE Communications Society, Vol. 56, No. 1, pages 149-155, January 2018.
- RI44** W. Cerroni, L. Foschini, G.Y. Grabarnik, L. Shwartz, M. Tortonesi:  
**“Estimating Delay Times Between Cloud Datacenters: A Pragmatic Modeling Approach”**,  
**IEEE Communications Letters**, IEEE Communications Society, Vol. 22, No. 3, pages 526-529, March 2018.
- RI45** P. Bellavista, F. Caselli, A. Corradi, L. Foschini:  
**“Cooperative vehicular traffic monitoring in realistic low penetration scenarios: The COLOMBO experience”**,  
**Sensors**, Multidisciplinary Digital Publishing Institute (MDPI), Vol. 18, No. 3, pages 822-834, March 2018.
- RI46** O. Andrisano *et al.*:  
**“The Need of Multidisciplinary Approaches and Engineering Tools for the Development and Implementation of the Smart City Paradigm”**,  
**Proceedings of the IEEE**, IEEE, Vol. 106, No. 4, pages 738-760, April 2018.
- RI47** P. Bellavista, A. Corradi, L. Foschini, S. Monti:

- “Improved Adaptation and Survivability via Dynamic Service Composition of Ubiquitous Computing Middleware”**,  
**IEEE Access**, IEEE Communications Society, Vol. 6, pages 33604-33620, Maggio 2018.
- RI48** C. Bergamini, F. Bosi, A. Corradi, C.R. De Rolt, L. Foschini, S. Monti, M. Seralessandri:  
**“LocalFocus: A Big Data Service Platform for Local Communities and Smarter Cities”**,  
**IEEE Communications Magazine**, IEEE Communications Society, Vol. 56, No. 7, pages 116-123, July 2018.
- RI49** E.H.A. Gomes, M.A.R. Dantas, D.D.J. De Macedo, C.R. De Rolt, J. Dias, L. Foschini:  
**“An infrastructure model for smart cities based on big data”**,  
**International Journal of Grid and Utility Computing (IJGUC)**, Inder Science Press, Vol. 9, No. 4, pages 322-332, September 2018.
- RI50** M. Tortonesi, L. Foschini:  
**“Business-driven Service Placement for Highly Dynamic and Distributed Cloud Systems”**,  
**IEEE Transactions on Cloud Computing**, IEEE Communications Society, Vol. 6, No. 4, pages 977-990, October-December 2018.
- RI51** P. Bellavista, J. Berrocal, A. Corradi, S.K. Das, L. Foschini, A. Zanni:  
**“A survey on fog computing for the Internet of Things”**,  
**Pervasive and Mobile Computing Journal**, Elsevier Science, Vol. 52, pages 71-99, January 2019.
- RI52** A. Corradi, L. Foschini, C. Giannelli, R. Lazzarini, C. Stefanelli, M. Tortonesi, G. Virgilli:  
**“Smart Appliances and RAMI 4.0: Management and Servitization of Ice Cream Machines”**,  
**IEEE Transactions on Industrial Informatics**, IEEE Computer Society, Vol. 15, No. 2, pages 1007-1016, February 2019.
- RI53** P. Bellavista, D. Belli, S. Chessa, L. Foschini:  
**“A Social-Driven Edge Computing Architecture for Mobile Crowd Sensing Management”**,  
**IEEE Communications Magazine**, IEEE Communications Society, Vol. 57, No. 4, pages 68-73, April 2019.
- RI54** A. Corradi, M. Destro, L. Foschini, S. Kotoulas, V. Lopez, R. Montanari:  
**“Mobile Cloud Support for Semantic-Enriched Speech Recognition in Social Care”**,  
**IEEE Transactions on Cloud Computing**, IEEE Communications Society, Vol. 7, No. 1, pages 259-272, January-March 2019.
- RI55** B. Sousa, V. Fonseca, L. Cordeiro, B. Flamigni, L. Foschini, P. Simões, U. Sivarajah, V. Weerakkody:  
**“EMPATIA: A Multichannel Platform for Participatory Budgeting”**,  
**International Journal of Electronic Government Research**, Vol. 15, No. 2, pages 58-89, June 2019.
- RI56** P. Bellavista, A. Corradi, L. Foschini, S. Luciano, M. Solimando:  
**“A Simulation Framework for Virtualized Resources in Cloud Data Center Networks.”**,  
**IEEE Journal of Selected Areas in Communications**, IEEE Communications Society, Vol. 37, No. 8, pages 1808-1819, August 2019.
- RI57** A. Capponi, C. Fiandrino, B. Kantarci, L. Foschini, D. Kliazovich, P. Bouvry:  
**“A Survey on Mobile Crowdsensing Systems: Challenges, Solutions and Opportunities”**,  
**IEEE Communications Surveys & Tutorials**, IEEE Communications Society, Vol. 21, No. 3, pages 2419-2465, September 2019.
- RI58** R. Venanzi; L. Foschini; P. Bellavista; B. Kantarci; C. Stefanelli:  
**“Fog-Driven Context-Aware Architecture for Node Discovery and Energy Saving Strategy for Internet of Things Environments”**,  
**IEEE Access**, IEEE Communications Society, Vol. 7, pages 134173-134186, September 2019.
- RI59** P. Bellavista; A. Corradi; L. Foschini; D. Scotece:  
**“Differentiated Service/Data Migration for Edge Services Leveraging Container Characteristics”**,

- IEEE Access, IEEE Communications Society, Vol. 7, pages 139746-139758, October 2019.
- RI60 P. Bellavista, D. Belli, S. Chessa, L. Foschini:  
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 IEEE Communications Magazine, IEEE Communications Society, Vol. 57, No. 12, pages 78-83, December 2019.
- RI61 D. Belli; S. Chessa; L. Foschini; M. Girolami:  
**"A Probabilistic Model for the Deployment of Human-Enabled Edge Computing in Massive Sensing Scenarios"**,  
 IEEE Internet of Things Journal, IEEE Communications Society, Vol. 7, No. 3, pages 2421-2431, March 2020.
- RI62 I. M. A. Jawarneh; P. Bellavista; A. Corradi; L. Foschini; R. Montanari; J. Berrocal; J. M. Murillo:  
**"A Pre-Filtering Approach for Incorporating Contextual Information Into Deep Learning Based Recommender Systems"**,  
 IEEE Access, IEEE Communications Society, Vol. 8, pages 40485-40498, March 2020.
- RI63 V.S. Dasari, B. Kantarci, M. Pouryazdan, L. Foschini, M. Girolami:  
**"Game Theory in Mobile CrowdSensing: A Comprehensive Survey"**,  
 Sensors, MDPI, Vol. 20, Art. No. 2055, pages 1-23, April 2020.
- RI64 D. Belli, S. Chessa, A. Corradi, L. Foschini, M. Girolami:  
**"Optimization strategies for the selection of mobile edges in hybrid crowdsensing architectures"**,  
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**"Automatic Extraction of POIs in Smart Cities: Big Data Processing in ParticipAct"**,  
 IFIP/IEEE International Symposium on Integrated Network Management (IM'15) Experience Session, pagg. 1059-1064, IEEE Computer Society Press, Ottawa, ON, Canada, 11-15 May 2015.
- CI36 S. Chessa, M. Girolami, L. Foschini, A. Corradi, R. Ianniello:  
**"Social Amplification Factor for Mobile Crowd Sensing: The ParticipAct Experience"**,  
 IEEE International Symposium on Computers and Communications (ISCC'15), pagg. 1-6, IEEE Computer Society Press, Larnaca, Cyprus, 6-9 July 2015.
- CI37 J. Toccaceli, A. Boukerche, A. Corradi, L. Foschini:  
**"Context-aware support for geographical routing protocols"**,  
 IEEE Global Communications Conference (GLOBECOM'15), pagg. 1-6, IEEE Computer Society Press, San Diego, CA, USA, 6-10 December 2015.
- CI38 G. Carella, L. Foschini, A. Pernaflini, P. Bellavista, A. Corradi, M. Corici, F. Schreiner, T. Magedanz:  
**"Quality Audit and Resource Brokering for Network Functions Virtualization (NFV) Orchestration in Hybrid Clouds"**,  
 IEEE Global Communications Conference (GLOBECOM'15), pagg. 1-6, IEEE Computer Society Press, San Diego, CA, USA, 6-10 December 2015.
- CI39 B. Kantarci, P.M. Glasser, L. Foschini:  
**"Crowdsensing with social network-aided collaborative trust scores"**,  
 IEEE Global Communications Conference (GLOBECOM'15), pagg. 1-7, IEEE Computer Society Press, San Diego, CA, USA, 6-10 December 2015.
- CI40 C. Eleonora, M. Corici, P. Bellavista, L. Foschini, G. Carella, A. Edmonds, T.M. Bohnert:  
**"Efficient exploitation of mobile edge computing for virtualized 5G in EPC architectures"**,  
 IEEE International Conference on Mobile Cloud Computing, Services, and Engineering (MobileCloud 2016), pagg. 100-109, IEEE Computer Society Press, Oxford, UK, April 2016.
- CI41 M. Cinque, P. Bellavista, A. Corradi, L. Foschini, F. Frattini, J. Povedano Molina:  
**"Scalable Monitoring and dependable job Scheduling support for multi-domain Grid infrastructures"**,  
 ACM Symposium on Applied Computing (SAC'16), pagg. 2015-2020, ACM Press, Pisa, Italia, 4-8 April 2016.
- CI42 E. Gomes, M. Dantas, D. De Macedo, C.R. De Rolt, M. Brocardo, L. Foschini:  
**"Towards an infrastructure to support big data for a smart city project"**,  
 IEEE International Conference on Enabling Technologies: Infrastructure for Collaborative Enterprises (WETICE 2016), pagg. 107-112, IEEE Computer Society Press, Parigi, Francia, 13-15 June 2016.

- CI43** C.R. De Rolt, R. Montanari, M. Brocardo, L. Foschini, J. Dias:  
**"COLLEGA Middleware for the Management of Participatory Mobile Health Communities"**,  
**IEEE International Symposium on Computers and Communications (ISCC'16)**, pagg. 999-1005, IEEE Computer Society Press, Messina, Italy, 27-30 June 2016.
- CI44** J. Cortellazzi, L. Foschini, C.R. De Rolt, A. Corradi, C.A.N. Alperstedt, G.D. Alperstedt:  
**"Crowdsensing and proximity services for impaired mobility"**,  
**IEEE International Symposium on Computers and Communications (ISCC'16)**, pagg. 44-49, IEEE Computer Society Press, Messina, Italy, 27-30 June 2016.
- CI45** A. Edmonds, G. Carella, F.Z. Yousaf, C. Goncalves, T.M. Bohnert, T. Metsch, P. Bellavista, L. Foschini:  
**"An OCCI-compliant framework for fine-grained resource-aware management in Mobile Cloud Networking"**,  
**IEEE International Symposium on Computers and Communications (ISCC'16)**, pagg. 1306-1313, IEEE Computer Society Press, Messina, Italy, 27-30 June 2016.
- CI46** E. Gomes, M. Dantas, D. De Macedo, J. Diaz, C.R. De Rolt, M. Brocardo, L. Foschini:  
**"Ciencia Cidadã Baseada em Big Data Aplicada ao Planejamento Urbano"**,  
**36th Congresso da Sociedade Brasileira de Computação (CSBC BRESOI 2016)**, pagg. 14-21, Porto Alegre/RS, Brazil, 4-7 July 2016.
- CI47** A. Corradi, L. Foschini, A. Zanni, M. Casoni, S. Monti, F. Sprotetto:  
**"A federation model to support semantic SPARQL queries for enterprise data governance"**,  
**International Conference on Digital Information Management (ICDIM'16)**, pagg. 96-100, IEEE Computer Society Press, Porto, Portugal, 19-21 September 2016.
- CI48** M. Casoni, S. Monti, F. Sprotetto, A. Corradi, L. Foschini, R. Venanzi:  
**"Semantic SPARQL queries: a novel federation model and implementation towards Enterprise Data Governance"**,  
**EAI International Conference on Performance Evaluation Methodologies and Tools Research Article (VALUETOOLS)**, pagg. 202-208, EAI Press, Taormina, Italia, 25-28 October 2016.
- CI49** A. Corradi, L. Foschini, L. Gioia, R. Ianniello:  
**"Leveraging communities to boost participation and data collection in mobile crowd sensing"**,  
**IEEE Global Communications Conference (GLOBECOM'16)**, pagg. 1-6, IEEE Computer Society Press, Washington, DC, USA, 4-8 December 2016.
- CI50** P. Bellavista, L. Foschini, R. Venanzi, G. Carella:  
**"Extensible Orchestration of Elastic IP Multimedia Subsystem as a Service Using Open Baton"**,  
**IEEE International Conference on Mobile Cloud Computing, Services, and Engineering (MobileCloud 2017)**, pagg. 88-95, IEEE Computer Society Press, San Francisco, USA, April 2017.
- CI51** M. Girolami, S. Chessa, G. Adami, M. Dragone, L. Foschini:  
**"Sensing Interpolation Strategies for a Mobile Crowdsensing Platform"**,  
**IEEE International Conference on Mobile Cloud Computing, Services, and Engineering (MobileCloud 2017)**, pagg. 102-108, IEEE Computer Society Press, San Francisco, USA, April 2017.
- CI52** P. Bellavista, A. Corradi, L. Foschini, S. Chessa, M. Girolami:  
**"Human dynamics of mobile crowd sensing experimental datasets"**,  
**IEEE International Conference on Communications (ICC'17)**, pagg. 1-6, IEEE Computer Society Press, Parigi, Francia, 21-25 May 2017.
- CI53** P. Bellavista, J. De Benedetto, C.R. De Rolt, L. Foschini, R. Montanari:  
**"LTE proximity discovery for supporting participatory mobile health communities"**,  
**IEEE International Conference on Communications (ICC'17)**, pagg. 1-6, IEEE Computer Society Press, Parigi, Francia, 21-25 May 2017.
- CI54** G. Carella, M. Pauls, T. Magedanz, M. Cilloni, P. Bellavista, L. Foschini:

- “Prototyping nfv-based multi-access edge computing in 5G ready networks with open baton”**,  
**IEEE Conference on Network Softwarization: Softwarization Sustaining a Hyper-Connected World: en Route to 5G (NetSoft 2017)**, pagg. 1-4, IEEE Computer Society Press, Bologna, Italia, 3-7 July 2017.
- CI55** I.M. Al Jawarneh, P. Bellavista, A. Corradi, R. Montanari, L. Foschini, A. Zanotti:  
**“Efficient spark-based framework for big geospatial data query processing and analysis”**,  
**IEEE International Symposium on Computers and Communications (ISCC’17)**, pagg. 851-856, IEEE Computer Society Press, Heraklion, Creta, Grecia, 3-6 July 2017.
- CI56** C.R. De Rolt, L. Foschini, F. Gauthier, D. Hasse, R. Montanari:  
**“Competence-based mobile Community Response Networks”**,  
**IEEE International Symposium on Computers and Communications (ISCC’17)**, pagg. 994-1000, IEEE Computer Society Press, Heraklion, Creta, Grecia, 3-6 July 2017.
- CI57** P. Bellavista, L. Foschini, D. Scotece:  
**“Prototyping nfv-based multi-access edge computing in 5G ready networks with open baton”**,  
**International Conference on Future Internet of Things and Cloud (FiCloud)**, pagg. 313-320, IEEE Computer Society Press, Praga, Repubblica Ceca, August 2017.
- CI58** P. Bellavista, J. Berrocal, A. Corradi, L. Foschini:  
**“Mobile crowd sensing as an enabler for people as a service mobile computing”**,  
**International Conference on Ad-Hoc Networks and Wireless (ADHOC-NOW 2017)**, pagg. 144-157, Springer Verlag Lecture Notes in Computer Science, Messina, Italia, 20-22 September 2017.
- CI59** I.M. Al Jawarneh, P. Bellavista, C.R. De Rolt, L. Foschini:  
**“Dynamic Identification of Participatory Mobile Health Communities”**,  
**EAI International Conference on on Cloud, Networking for IoT systems (CN4IoT 2017)**, pagg. 208-217, Springer Verlag Lecture Notes of the Institute for Computer Sciences, Social Informatics and Telecommunications Engineering, October 2017.
- CI60** P. Bellavista, A. Corradi, L. Foschini, A. Noor, A. Zanni:  
**“Improving OpenStack Networking: Advantages and Performance of Native SDN Integration”**,  
**International Conference on Distributed Computing and Networking (ICDCN’18)**, pagg. 1-6, ACM Press, Varanasi, India, 4-7 January 2018.
- CI61** A.D. Cartier, D.H. Lee, B. Kantarci, L. Foschini:  
**“IoT-big data software ecosystems for smart cities sensing: challenges, open issues, and emerging solutions”**,  
**European Conference on Service-Oriented and Cloud Computing (ESOCC 2016)**, pagg. 5-18, apparso in Communications in Computer and Information Science book series (CCIS, volume 707), Springer, January 2018.
- CI62** R. Venanzi, B. Kantarci, L. Foschini, P. Bellavista:  
**“MQTT-Driven Node Discovery for Integrated IoT-Fog Settings Revisited: The Impact of Advertiser Dynamicity”**,  
**IEEE Symposium on Service-Oriented System Engineering (SOSE’18)**, pagg. 31-39, IEEE Computer Society Press, Bamberg, Germania, 26-29 March 2018.
- CI63** F. Foresta, W. Cerroni, L. Foschini, G. Davoli, C. Contoli, A. Corradi, F. Callegati:  
**“Improving OpenStack Networking: Advantages and Performance of Native SDN Integration”**,  
**IEEE International Conference on Communications (ICC’18)**, pagg. 1-6, IEEE Computer Society Press, Kansas City, USA, 20-24 May 2018.
- CI64** R. Venanzi, B. Kantarci, L. Foschini, P. Bellavista:  
**“MQTT-Driven sustainable node discovery for internet of things-fog environments”**,  
**IEEE International Conference on Communications (ICC’18)**, pagg. 1-6, IEEE Computer Society Press, Kansas City, USA, 20-24 May 2018.
- CI65** D. Belli, S. Chessa, L. Foschini, M. Girolami:

- “Enhancing Mobile Edge Computing Architecture with Human-Driven Edge Computing Model”**,  
**International Conference on Intelligent Environments (IE 2018)**, pagg. 95-98, IEEE Computer Society Press, Roma, Italia, 25-28 June 2018.
- CI66** D. Belli, S. Chessa, L. Foschini, M. Girolami:  
**“A Social-Based Approach to Mobile Edge Computing”**,  
**IEEE International Symposium on Computers and Communications (ISCC’18)**, pagg. 292-297, IEEE Computer Society Press, Natal, Brasile, 3-6 July 2018.
- CI67** I.M. Al Jawarneh, P. Bellavista, F. Casimiro, A. Corradi, L. Foschini:  
**“Cost-Effective Strategies for Provisioning NoSQL Storage Services in Support for Industry 4.0”**,  
**IEEE International Symposium on Computers and Communications (ISCC’18)**, pagg. 1227-1232, IEEE Computer Society Press, Natal, Brasile, 3-6 July 2018.
- CI68** M.D.A. Buosi *et al.*:  
**“A Crowdsensing Campaign and Data Analytics for Assisting Urban Mobility Pattern Determination”**,  
**IEEE International Symposium on Computers and Communications (ISCC’18)**, pagg. 224-229, IEEE Computer Society Press, Natal, Brasile, 3-6 July 2018.
- CI69** P. Bellavista, L. Foschini, S. Luciano, M. Solimando:  
**“DCNs-2: A Cloud Network Simulator Extension for ns-2”**,  
**ACM International Conference on Modeling, Analysis and Simulation of Wireless and Mobile Systems (MSWIM 2018)**, pagg. 47-51, ACM Press, Montreal, QC, Canada, 28 October-2 November 2018.
- CI70** W. Cerroni, L. Foschini, G.Y. Grabarnik, L. Shwartz, M. Tortonesi:  
**“Service Placement for Hybrid Clouds Environments based on Realistic Network Measurements”**,  
**International Conference on Network and Service Management (CNSM 2018)**, pagg. 184-190, IEEE Computer Society Press, Roma, Italia, 5-9 November 2018.
- CI71** S. Bertacchi *et al.*:  
**“SACHER Project. A Cloud Platform and Integrated Services for Cultural Heritage and for Restoration”**,  
**EAI International Conference on Smart Objects and Technologies for Social Good (Goodtechs)**, pagg. 283-288, ACM Press, Bologna, Italia, 28-30 November 2018.
- CI72** L. Acquaviva, P. Bellavista, A. Corradi, L. Foschini, L. Gioia, P.C. Maiorano Picone:  
**“Cloud Distributed File Systems: A Benchmark of HDFS, Ceph, GlusterFS, and XtremeFS”**,  
**IEEE Global Communications Conference (GLOBECOM’18)**, pagg. 1-6, IEEE Computer Society Press, , Abu Dhabi, Emirati Arabi Uniti, 9-13 December 2018.
- CI73** I.M. Al Jawarneh, G. Martuscelli, P. Bellavista, R. Montanari, F. Bosi, L. Foschini, A. Palopoli:  
**“QoS and performance metrics for container-based virtualization in cloud environments”**,  
**International Conference on Distributed Computing and Networking (ICDCN’19)**, pagg. 178-182, ACM Press, Bangalore, India, 4-7 January 2019.
- CI74** W. Cerroni, L. Foschini, G.Y. Grabarnik, L. Shwartz, M. Tortonesi:  
**“What-if Scenario Analysis for IT Services in Hybrid Cloud Environments with BDMaaS+”**,  
**IFIP/IEEE Symposium on Integrated Network and Service Management (IM’19)**, pagg. 62-70, IEEE Computer Society Press, Arlington, VA, USA, 8-12 April 2019.
- CI75** I. M. A. Jawarneh, P. Bellavista, F. Bosi, L. Foschini, G. Martuscelli, R. Montanari, A. Palopoli:  
**“Container Orchestration Engines: A Thorough Functional and Performance Comparison”**,  
**ICC 2019 - 2019 IEEE International Conference on Communications (ICC)**, pagg. 1-6, IEEE Computer Society Press, Shanghai, China, 20-24 May 2019.
- CI76** I. Bedhief, M. Kassar, T. Aguilí, L. Foschini, P. Bellavista:

- “Self-Adaptive Management of SDN Distributed Controllers for Highly Dynamic IoT Networks”**,  
**2019 15th International Wireless Communications & Mobile Computing Conference (IWCMC)**, pagg. 2098-2104, IEEE Computer Society Press, Tangier, Morocco, 24-28 June 2019.
- CI77** P. Bellavista, F. Bosi, A. Corradi, L. Foschini, S. Monti, L. Patera, L. Poli, D. Scotece, M. Solimando:  
**“Design Guidelines for Big Data Gathering in Industry 4.0 Environments”**,  
**2019 IEEE 20th International Symposium on A World of Wireless**, pagg. 1-6, IEEE Computer Society Press, Washington DC, USA, 10-12 June 2019.
- CI78** D. Scotece, N. R. Paiker, L. Foschini, P. Bellavista, X. Ding, C. Borcea:  
**“MEFS: Mobile Edge File System for Edge-Assisted Mobile Apps”**,  
**2019 IEEE 20th International Symposium on A World of Wireless**, pagg. 1-9, IEEE Computer Society Press, Washington DC, USA, 10-12 June 2019.
- CI79** P. Bellavista, A. Corradi, L. Foschini, M. Solimando:  
**“The Audit4Cloud Platform for Auditing the Networking Performance of Public Clouds”**,  
**2019 IEEE Symposium on Computers and Communications (ISCC)**, pagg. 1-6, IEEE Computer Society Press, Barcellona, Spagna, 30 June – 3 July 2019.
- CI80** I. M. Al Jawarneh, P. Bellavista, L. Foschini, R. Montanari:  
**“Spatial-Aware Approximate Big Data Stream Processing”**,  
**2019 IEEE Symposium on Computers and Communications (ISCC)**, pagg. 1-6, IEEE Computer Society Press, Barcellona, Spagna, 30 June – 3 July 2019.
- CI81** P. Bellavista, M. Campestri, L. Foschini, R. Montanari:  
**“Clustering of Spatial Data with DBSCAN: An Assessment of STARK”**,  
**2019 IEEE Symposium on Computers and Communications (ISCC)**, pagg. 1-6, IEEE Computer Society Press, Barcellona, Spagna, 30 June – 3 July 2019.
- CI82** D. Belli, S. Chessa, A. Corradi, G. Di Paolo, L. Foschini, M. Girolami:  
**“Selection of Mobile Edges for a Hybrid CrowdSensing Architecture”**,  
**2019 IEEE Symposium on Computers and Communications (ISCC)**, pagg. 1-6, IEEE Computer Society Press, Barcellona, Spagna, 30 June – 3 July 2019.
- CI83** L. Foschini, G. Martuscelli, R. Montanari:  
**“Simplifying Multi-layer and Multi-tenant Support in OpenStack: The SACHER Use Case”**,  
**2019 IEEE Symposium on Computers and Communications (ISCC)**, pagg. 1183-1188, IEEE Computer Society Press, Barcellona, Spagna, 30 June – 3 July 2019.
- CI84** D. Belli, S. Chessa, B. Kantarci, L. Foschini:  
**“A Capacity-Aware User Recruitment Framework for Fog-Based Mobile Crowd-Sensing Platforms”**,  
**2019 IEEE Symposium on Computers and Communications (ISCC)**, pagg. 1-6, IEEE Computer Society Press, Barcellona, Spagna, 30 June – 3 July 2019.
- CI85** P. Bellavista, P. Chatzimisios, L. Foschini, M. Paradisioti, D. Scotece:  
**“A Support Infrastructure for Machine Learning at the Edge in Smart City Surveillance”**,  
**2019 IEEE Symposium on Computers and Communications (ISCC)**, pagg. 1189-1194, IEEE Computer Society Press, Barcellona, Spagna, 30 June – 3 July 2019.
- CI86** P. Bellavista, L. Foschini, N. Ghiselli, A. Reale:  
**“MQTT-based Middleware for Container Support in Fog Computing Environments”**,  
**2019 IEEE Symposium on Computers and Communications (ISCC)**, pagg. 1-7, IEEE Computer Society Press, Barcellona, Spagna, 30 June – 3 July 2019.
- CI87** P. H. Barros, I. Cardoso-Pereira, L. Foschini, A. Corradi, H. S. Ramos:  
**“Load balancing in D2D networks Using Reinforcement Learning”**,  
**2019 IEEE Symposium on Computers and Communications (ISCC)**, pagg. 1-6, IEEE Computer Society Press, Barcellona, Spagna, 30 June – 3 July 2019.
- CI88** L. Foschini, A. Gavagna, G. Martuscelli, R. Montanari:  
**“Hyperledger Fabric Blockchain: Chaincode Performance Analysis”**,

- ICC 2020 - 2020 IEEE International Conference on Communications (ICC)**, pagg. 1-6, IEEE Communications Society, Virtual Conference, 7-11 June 2020.
- CI89** P. Bellavista, R. D. Penna, L. Foschini, D. Scotece:  
**“Machine Learning for Predictive Diagnostics at the Edge: an IIoT Practical Example”**,  
**ICC 2020 - 2020 IEEE International Conference on Communications (ICC)**, pagg. 1-7, IEEE Communications Society, Virtual Conference, 7-11 June 2020.
- CI90** A. Corradi, G. Di Modica, L. Evangelisti, A. Fiorini, L. Foschini, L. Zerbini:  
**“HS-AUTOFIT: a highly scalable AUTOFIT application for Cloud and HPC environments”**,  
**2020 IEEE Symposium on Computers and Communications (ISCC)**, pagg. 1-6, IEEE Computer Society Press, Virtual Conference, 7-10 July 2020.
- CI91** J. L. Herrera, L. Foschini, J. Galàn-Jiménez, J. Berrocal:  
**“The Service Node Placement Problem in Software-Defined Fog Networks”**,  
**2020 IEEE Symposium on Computers and Communications (ISCC)**, pagg. 1-6, IEEE Computer Society Press, Virtual Conference, 7-10 July 2020.
- CI92** F. Bosi, A. Corradi, G. Di Modica, L. Foschini, R. Montanari, L. Patera, M. Solimando:  
**“Enabling Smart Manufacturing by Empowering Data Integration with Industrial IoT Support”**,  
**2020 International Conference on Technology and Entrepreneurship (ICTE)**, IEEE Computer Society, pagg. 1-8 Virtual Conference, 19-22 August 2020.
- CI93** A. Bujari, C. Bergamini, A. Corradi, L. Foschini, C.E. Palazzi, A. Sabbioni:  
**“A Geo-distributed Architectural Approach Favouring Smart Tourism Development in the 5G Era”**,  
**6th EAI International Conference on Smart Objects and Technologies for Social Good (GoodTechs)**, pagg. 12-17, ACM Press, Virtuale, 14-16 September 2020.
- CI94** R. Venanzi, F. Montori, P. Bellavista, L. Foschini:  
**“Industry 4.0 Solutions for Interoperability: a Use Case about Tools and Tool Chains in the Arrowhead Tools Project”**,  
**2020 IEEE International Conference on Smart Computing (SMARTCOMP)**, IEEE Communications Society, pagg. 429-433, Virtual Conference, 14-17 September 2020.
- CI95** P. Barsocchi, S. Chessa, L. Foschini, D. Belli, M. Girolami:  
**“Impact of Evolutionary Community Detection Algorithms for Edge Selection Strategies”**,  
**GLOBECOM 2020 - 2020 IEEE Global Communications Conference**, pagg. 1-6, IEEE Communications Society, Virtual Conference, 7-11 December 2020.
- CI96** A. Sabbioni, A. Bujari, L. Foschini, A. Corradi:  
**“An Efficient and Reliable Multi-Cloud Provider Monitoring Solution”**,  
**GLOBECOM 2020 - 2020 IEEE Global Communications Conference**, pagg. 1-6, IEEE Communications Society, Virtual Conference, 7-11 December 2020.
- CI97** J. L. Herrera, P. Bellavista, L. Foschini, J. Galàn-Jiménez, J. M. Murillo, J. Berrocal:  
**“Meeting Stringent QoS Requirements in IIoT-based Scenarios”**,  
**GLOBECOM 2020 - 2020 IEEE Global Communications Conference**, pagg. 1-6, IEEE Communications Society, Virtual Conference, 7-11 December 2020.
- CI98** I. M. Al Jawarneh, P. Bellavista, A. Corradi, L. Foschini, R. Montanari:  
**“Locality-Preserving Spatial Partitioning for Geo Big Data Analytics in Main Memory Frameworks”**,  
**GLOBECOM 2020 - 2020 IEEE Global Communications Conference**, pagg. 1-6, IEEE Communications Society, Virtual Conference, 7-11 December 2020.
- CI99** S. Chessa, L. Foschini, M. Girolami:  
**“Understanding Human Mobility for CrowdSensing Strategies with the ParticipAct Data Set”**,  
**GLOBECOM 2020 - 2020 IEEE Global Communications Conference**, pagg. 1-6, IEEE Communications Society, Virtual Conference, 7-11 December 2020.
- CI100** P. Bellavista, M. Fogli, L. Foschini, C. Giannelli, L. Patera, C. Stefanelli:  
**“QoS-Enabled Semantic Routing for Industry 4.0 based on SDN and MOM Integration”**,

- 2021 IEEE 22nd International Conference on High Performance Switching and Routing (HPSR)**, pagg. 1-6, IEEE Communications Society, Virtual Conference, 7-10 June 2021.
- CI101** I. M. Al Jawarneh, P. Bellavista, A. Corradi, L. Foschini, R. Montanari:  
**“Context Incorporation Techniques for Social Recommender Systems”**,  
**ICC 2021 - IEEE International Conference on Communications**, pagg. 1-6, IEEE Communications Society, Virtual Conference, 14-23 June 2021.
- CI102** J. L. Herrera, P. Bellavista, L. Foschini, J. Garcia-Alonso, J. Galàn-Jiménez, J. Berrocal:  
**“Fog Node Placement in IoT Scenarios with Stringent QoS Requirements: Experimental Evaluation”**,  
**ICC 2021 - IEEE International Conference on Communications**, pagg. 1-6, IEEE Communications Society, Virtual Conference, 14-23 June 2021.
- CI103** A. Bujari, A. Corradi, L. Foschini, L. Patera, A. Sabbioni:  
**“Enhancing the Performance of Industry 4.0 Scenarios via Serverless Processing at the Edge”**,  
**ICC 2021 - IEEE International Conference on Communications**, pagg. 1-6, IEEE Communications Society, Virtual Conference, 14-23 June 2021.
- CI104** D. Flores-Martin, J. Garcia-Alonso, J. Berrocal, L. Foschini, J. M. M. Rodríguez:  
**“Context-Dependent Services Selection in Smart Environments”**,  
**2021 IEEE Symposium on Computers and Communications (ISCC)**, pagg. 1-6, IEEE Computer Society Press, Virtual/Athens, Grecia, 5-8 September 2021.
- CI105** A. Sabbioni, L. Rosa, A. Bujari, L. Foschini, A. Corradi:  
**“A Shared Memory Approach for Function Chaining in Serverless Platforms”**,  
**2021 IEEE Symposium on Computers and Communications (ISCC)**, pagg. 1-6, IEEE Computer Society Press, Virtual/Athens, Grecia, 5-8 September 2021.
- CI106** L. Rosa, W. Song, L. Foschini, A. Corradi, K. Birman:  
**“DerechoDDS: Strongly Consistent Data Distribution for Mission-Critical Applications”**,  
**MILCOM 2021 - 2021 IEEE Military Communications Conference (MILCOM)**, IEEE Communications Society, pagg. 684-689, San Diego, USA, 29 November - 2 December 2021.
- CI107** J. L. Herrera, J. Galàn-Jiménez, P. Bellavista, L. Foschini, J. Garcia-Alonso, J. M. Murillo, J. Berrocal:  
**“Optimal Deployment of Fog Nodes, Microservices and SDN Controllers in Time-Sensitive IoT Scenarios”**,  
**2021 IEEE Global Communications Conference (GLOBECOM)**, pagg. 1-6, IEEE Communications Society, Virtual/Madrid, Spain, 7-11 December 2021.
- CI108** R. Venanzi, A. Cavalucci, L. Foschini, P. Bellavista:  
**“MIINT: Middleware for IIoT Platforms Integration”**,  
**2021 IEEE Global Communications Conference (GLOBECOM)**, pagg. 1-6, IEEE Communications Society, Virtual/Madrid, Spain, 7-11 December 2021.
- CI109** P. Bellavista, L. Foschini, A. Mora:  
**“Communication-Efficient Heterogeneous Federated Dropout in Cross-device Settings”**,  
**2021 IEEE Global Communications Conference (GLOBECOM)**, pagg. 1-6, IEEE Communications Society, Virtual/Madrid, Spain, 7-11 December 2021.
- CI110** D. Scotece, C. Fiandrino, L. Foschini:  
**“On the Efficiency of Service and Data Handoff Protocols in Edge Computing Systems”**,  
**2021 IEEE Global Communications Conference (GLOBECOM)**, pagg. 1-6, IEEE Communications Society, Virtual/Madrid, Spain, 7-11 December 2021.
- CI111** I. M. A. Jawarneh, P. Bellavista, A. Corradi, L. Foschini, R. Montanari:  
**“Efficient Geospatial Analytics on Time Series Big Data”**,  
**ICC 2022 - IEEE International Conference on Communications**, pagg. 3002-3008, IEEE Communications Society, Virtual/Seoul, Corea del Sud, 16-20 May 2022.
- CI112** J. Rojo, J. Hernandez, L. Foschini, P. Bellavista, J. Berrocal, J. M. Murillo Rodriguez, J. Garcia-Alonso:

- “Blockchains federation for enabling actor-centered data integration”**,  
**ICC 2022 - IEEE International Conference on Communications**, pagg. 3430-3435, IEEE Communications Society, Virtual/Seoul, Corea del Sud, 16-20 May 2022.
- CI113** A. Garbugli, L. Rosa, L. Foschini, A. Corradi, P. Bellavista:  
**“A Framework for TSN-enabled Virtual Environments for Ultra-Low Latency 5G Scenarios”**,  
**ICC 2022 - IEEE International Conference on Communications**, pagg. 5023-5028, IEEE Communications Society, Virtual/Seoul, Corea del Sud, 16-20 May 2022.
- CI114** A. Mora, L. Foschini, P. Bellavista:  
**“Structured Sparse Ternary Compression for Convolutional Layers in Federated Learning”**,  
**2022 IEEE 95th Vehicular Technology Conference: (VTC2022-Spring)**, pagg. 1-5, IEEE Communications Society, Helsinki, Finland, 19-22 June 2022.
- CI115** M. Mendula, A. Bujari, L. Foschini, P. Bellavista:  
**“A Data-Driven Digital Twin for Urban Activity Monitoring”**,  
**2022 IEEE Symposium on Computers and Communications (ISCC)**, pagg. 1-6, IEEE Computer Society Press, Virtual/Athens, Grecia, 30 June – 3 July 2022.
- CI116** P. Bellavista, M. Fogli, L. Foschini, C. Giannelli, L. Patera, C. Stefanelli:  
**“A Framework for QoS- Enabled Semantic Routing in Industrial Networks: Overall Architecture and Primary Protocols”**,  
**2022 IEEE Future Networks World Forum (FNWF)**, pagg. 58-63, IEEE Communications Society, Virtual/Montreal, Canada, 12-14 October 2022.
- CI117** A. Sabbioni, A. Bujari, S. Romeo, L. Foschini, A. Corradi:  
**“An Architectural Approach for Heterogeneous Data Access in Serverless Platforms”**,  
**2022 IEEE Global Communications Conference (GLOBECOM)**, pagg. 129-134, IEEE Communications Society, Rio de Janeiro, Brazil, 4-8 December 2022.
- CI118** D. Scotece, C. Fiandrino, L. Foschini:  
**“A Practical way to Handle Service Migration of ML-based Applications in Industrial Analytics”**,  
**2022 IEEE Global Communications Conference (GLOBECOM)**, pagg. 123-128, IEEE Communications Society, Rio de Janeiro, Brazil, 4-8 December 2022.
- CI119** J. L. Herrera, J. Galàn-Jiménez, P. Bellavista, L. Foschini, J. Garcia-Alonso, J. M. Murillo, J. Berrocal:  
**“Multi-Objective Optimal Deployment of SDN-Fog Infrastructures and IoT Applications”**,  
**ICC 2023 - IEEE International Conference on Communications**, pagg. 5904-5909, IEEE Communications Society, Virtual/Seoul, Corea del Sud, 28 May – 1 June 2023.
- CI120** R. Venanzi, M. Solimando, M. Patrali, L. Foschini, P. Chatzimisios:  
**“Siemens and EdgeX IloT Platforms: A Functional and Performance Evaluation”**,  
**ICC 2023 - IEEE International Conference on Communications**, pagg. 834-839, IEEE Communications Society, Virtual/Seoul, Corea del Sud, 28 May – 1 June 2023.
- CI121** A. Garbugli, L. Rosa, A. Bujari, L. Foschini:  
**“KuberneTSN: a Deterministic Overlay Network for Time-Sensitive Containerized Environments”**,  
**ICC 2023 - IEEE International Conference on Communications**, pagg. 1494-1499, IEEE Communications Society, Virtual/Seoul, Corea del Sud, 28 May – 1 June 2023.
- CI122** D. Borsatti, W. Cerroni, L. Foschini, G. Y. Grabarnik, F. Poltronieri, D. Scotece, L. Shwartz, C. Stefanelli, M. Tortonesi, M. Zaccarini:  
**“Modeling Digital Twins of Kubernetes-Based Applications”**,  
**2023 IEEE Symposium on Computers and Communications (ISCC)**, pagg. 219-224, IEEE Computer Society Press, Tunis, Tunisia, 9-12 July 2023.
- CI123** S. Montebugnoli, L. Foschini:  
**“A Multicloud Observability Support Based on ElasticSearch for Cloud-native Smart Cities Services”**,  
**2023 IEEE Symposium on Computers and Communications (ISCC)**, pagg. 1-6, IEEE Computer Society Press, Tunis, Tunisia, 9-12 July 2023.

- CI124** A. Calvio, A. Sabbioni, A. Bujari, L. Foschini:  
**“An Event and Service Mesh Architecture Supporting Service Integration in Society 5.0 enabled Smart Cities”**,  
**ACM 3rd International Conference on Information Technology for Social Good (GoodIT 2023)**, ACM, pagg. 462–470, Lisbona, Portogallo, 6-8 September 2023.
- CI125** L. Manca, D. Borsatti, F. Poltronieri, M. Zaccarini, D. Scotece, G. Davoli, L. Foschini, G. Y. Grabarnik, L. Shwartz, C. Stefanelli, M. Tortonesi, W. Cerroni:  
**“Characterization of Microservice Response Time in Kubernetes: A Mixture Density Network Approach”**,  
**2023 19th International Conference on Network and Service Management (CNSM)**, pagg. 1-9, IEEE Communications Society, Niagara Falls, Canada, 30 October - 2 November 2023.
- CI126** D. Tazzioli, R. Venanzi, A. Capponi, S. Dost, L. Foschini, P. Bellavista:  
**“AWS IoT Service Integration for Real Industry 4.0 Deployments”**,  
**2023 IEEE Global Communications Conference (GLOBECOM)**, pagg. 2620-2625, IEEE Communications Society, Kuala Lumpur, Malaysia, 4-8 December 2023.
- CI127** J. L. Herrera, D. Scotece, J. Galàn-Jiménez, J. Berrocal, G. Di Modica, L. Foschini:  
**“Latency-Optimal Network Microservice Architecture Deployment in SDN”**,  
**2023 IEEE Global Communications Conference (GLOBECOM)**, pagg. 5202-5207, IEEE Communications Society, Kuala Lumpur, Malaysia, 4-8 December 2023.
- CI128** J. L. Herrera, D. Scotece, J. Galàn-Jiménez, J. Berrocal, G. Di Modica, L. Foschini:  
**“Evolutionary Computation for Latency Minimization in SDN Microservice Architectures”**,  
**2024 - IEEE International Conference on Communications**, Denver, CO, USA, 2024, pp. 171-176.
- CI129** D. Scotece, P. M. Tshakwanda, S. T. Arzo, R. Cavallari, L. Foschini and M. Devetsikiotis:  
**“Intelligent Agent support for Topology Learning in microservices-based SDN Controller”**,  
**2024 - IEEE International Conference on Communications**, Denver, CO, USA, 2024, pp. 165-170.
- CI130** D. Tazzioli, R. Venanzi and L. Foschini:  
**“Stateful Service Migration Support for Kubernetes-based Orchestration in Industry 4.0”**,  
**2024 IEEE Symposium on Computers and Communications (ISCC)**, Paris, France, 2024, pp. 1-6.
- CI131** M. Zaccarini, D. Borsatti, W. Cerroni, L. Foschini, *et al.*:  
**“TELKA: Twin-Enhanced Learning for Kubernetes Applications”**,  
**2024 IEEE Symposium on Computers and Communications (ISCC)**, Paris, France, 2024, pp. 1-6.
- CI132** A. Calvio, F. Lenzi, A. Bujari and L. Foschini:  
**“Charting the Route: Fine-grained Road Topology Construction for Logistics Digital Twins”**,  
**2024 IEEE Symposium on Computers and Communications (ISCC)**, Paris, France, 2024, pp. 1-6.
- CI133** J. L. Herrera, S. Montebugnoli, P. Bellavista and L. Foschini:  
**“Charting the Route: Fine-grained Road Topology Construction for Logistics Digital Twins”**,  
**2024 IEEE 25th International Conference on High Performance Switching and Routing (HPSR)**, Pisa, Italy, 2024, pp. 37-42.
- CI134** P. Bellavista, S. Dahdal, L. Foschini, D. Tazzioli, M. Tortonesi and R. Venanzi:  
**“Kubernetes Enhanced Stateful Service Migration for ML-Driven Applications in Industry 4.0 Scenarios”**,  
**2024 IEEE Annual Congress on Artificial Intelligence of Things (AIoT)**, Melbourne, Australia, 2024, pp. 25-31.
- CI135** P. Bellavista, A. Bujari, L. Foschini, A. Sabbioni and R. Venanzi:

- “A MECApp-aware Lifecycle Management Approach in 5G Edge-Cloud Deployments”**,  
**2024 33rd International Conference on Computer Communications and Networks (ICCCN)**, Kailua-Kona, HI, USA, 2024, pp. 1-6.
- CI136** J. Notcker, M. Ghadimi, R. Bassoli, D. Scotece, F. H. P. Fitzek and L. Foschini:  
**“Traffic Matrices for Quantum Traffic Engineering”**,  
**2024 IEEE Future Networks World Forum (FNWF)**, Dubai, United Arab Emirates, 2024,  
 pp. 754-759.
- CI137** S. Biswas, A. Garbugli, L. Foschini, R. Bassoli and F. H. P. Fitzek:  
**“Towards a Hybrid 6G Internet”**,  
**2024 IEEE Future Networks World Forum (FNWF)**, Dubai, United Arab Emirates, 2024,  
 pp. 337-344.
- CI138** A. Kocian, M. Girolami, S. Capoccia, L. Foschini and S. Chessa:  
**“Evaluating the Impact of Injected Mobility Data on Measuring Data Coverage in CrowdSensing Scenarios”**,  
**GLOBECOM 2024 - 2024 IEEE Global Communications Conference**, Cape Town, South Africa, 2024, pp. 4672-4677.
- CI139** J. L. Herrera, D. Scotece, J. Galàn-Jiménez, J. Berrocal, G. Di Modica, P. Bellavista, L. Foschini:  
**“Orchestrating Microservice-based SDN Controllers: the MSN Realistic Use Case”**,  
**GLOBECOM 2024 - 2024 IEEE Global Communications Conference**, Cape Town, South Africa, 2024, pp. 92-97.
- CI140** S. Montebugnoli, A. Sabbioni and L. Foschini:  
**“Evaluating Mesh Communications in Disaggregated Near-RT RIC for 5G Open RAN: a Functional and Performance Analysis”**,  
**GLOBECOM 2024 - 2024 IEEE Global Communications Conference**, Cape Town, South Africa, 2024, pp. 571-576.
- CI141** N. Villegas, J. L. Herrera, L. Diez, D. Scotece, L. Foschini and R. Agüero:  
**“DRL-Based Dynamic MAC Scheduler Reconfiguration in O-RAN”**,  
**ICC 2025 - IEEE International Conference on Communications**, Montreal, QC, Canada, 2025, pp. 5023-5028.
- CI142** J. L. Herrera, N. Villegas, L. Diez, D. Scotece, L. Foschini and R. Agüero:  
**“A Software Architecture for Seamless Simulated to Real Testbed Transition for O-RAN AI”**,  
**2025 16th International Conference on Network of the Future (NoF)**, Montreal, QC, Canada, 2025, pp. 151-158.
- CI143** M. Zaccarini, F. Poltronieri, D. Borsatti, W. Cerroni, L. Foschini, *et al.*:  
**“Chaos Engineering Based Kubernetes Pod Rescheduling Through Deep Sets and Reinforcement Learning”**,  
**NOMS 2025-2025 IEEE Network Operations and Management Symposium**, Honolulu, HI, USA, 2025, pp. 1-7.
- CI144** S. Montebugnoli, A. Sabbioni, F. Callegati, L. Foschini and P. Bellavista:  
**“CLO5ER: a Composable Lightweight Observability for 5g RAN Environment Inside Near RT RIC”**,  
**ICC 2025 - IEEE International Conference on Communications**, Montreal, QC, Canada, 2025, pp. 1900-1905.
- CI145** S. Zandoli, D. Scotece and L. Foschini:  
**“DDPG-based Automatic Antenna Tilt Angle Configuration with Counterfactual Explanations”**,  
**2025 IEEE Symposium on Computers and Communications (ISCC)**, Bologna, Italy, 2025, pp. 1-6.
- CI146** S. Montebugnoli, E. Drudi, A. Sabbioni, G. D. Modica and L. Foschini:  
**“TORNADO: TOSCA-enabled Orchestration for RAN Network functions Automating DevOps in O-Cloud”**,  
**2025 IEEE Symposium on Computers and Communications (ISCC)**, Bologna, Italy, 2025, pp. 1-6.
- CI147** A. Sabbioni and L. Foschini:

- “SFIOC: a Platform to Support Service Dependency Injection in Serverless Functions”, 2025 34th International Conference on Computer Communications and Networks (ICCCN), Tokyo, Japan, 2025, pp. 1-6.**
- CI148** Y. Saedi, G. Davoli, D. Scotece, C. Raffaelli, W. Cerroni and L. Foschini:  
**“A Microservice-Based Framework for Multi-Domain SDN Orchestration through Controller Decomposition”, 2025 21st International Conference on Network and Service Management (CNSM), Bologna, Italy, 2025, pp. 1-6.**
- CI149** J. Notcker, D. Scotece, R. Bassoli, L. Foschini and F. H. P. Fitzek:  
**“A Quantum Traffic Engineering Framework for Optimizing Quantum Link Delay”, GLOBECOM 2025 - 2025 IEEE Global Communications Conference, Taipei, Taiwan, 2025, pp. 3988-3993.**
- CI150** Y. Saedi, G. Davoli, D. Scotece, C. Raffaelli, W. Cerroni and L. Foschini:  
**“Adaptive Edge Orchestration of Microservice-based SDN Controllers for Enhanced Quality of Service”, GLOBECOM 2025 - 2025 IEEE Global Communications Conference, Taipei, Taiwan, 2025, pp. 3831-3836.**

### ***International Workshops***

- WI1** P. Bellavista, M. Cinque, D. Cotroneo, L. Foschini:  
**“Enabling Reusable and Comparable xApps in the Machine Learning-Driven Open RAN”, 3<sup>rd</sup> International Workshop on Middleware for Pervasive Ad-Hoc Computing (MPAC’05), tenuto insieme a 6<sup>th</sup> International Middleware Conference, pagg. 1-8, ACM Press, Grenoble, Francia, December 2005.**
- WI2** P. Bellavista, A. Corradi, L. Foschini:  
**“SIP-Based Proactive Handoff Management for Session Continuity in the Wireless Internet”, 2<sup>nd</sup> IEEE International Workshop on Services and Infrastructure for the Ubiquitous and Mobile Internet (SIUMI’06), tenuto insieme a 26<sup>th</sup> International Conference on Distributed Computer Systems (ICDCS’06), pagg. 69-76, IEEE Computer Society Press, Lisbona, Portogallo, July 2006.**
- WI3** A. Corradi, L. Foschini:  
**“A DDS-Compliant P2P Infrastructure for Reliable and QoS-Enabled Data Dissemination”, 6<sup>th</sup> International Workshop on Hot Topics in Peer-to-Peer Systems (HOTP2P’09), tenuto insieme a 23<sup>rd</sup> IEEE International Parallel & Distributed Processing Symposium (IPDPS’09), pagg. 1-8, IEEE Computer Society Press, Roma, Italia, May 2009.**
- WI4** P. Bellavista, A. Corradi, L. Foschini:  
**“Effective Adaptation Decisions based on Context-aware Proactive Handoff for Mobile Multimedia Continuity Maintenance”, 4<sup>th</sup> IEEE International Workshop on multiMedia Applications over Wireless Networks (MediaWiN’09), tenuto insieme a 14<sup>th</sup> IEEE International Symposium on Computers and Communications (ISCC’09), pagg. 48-53, IEEE Computer Society Press, Sousse, Tunisia, July 2009.**
- WI5** P. Bellavista, A. Corradi, L. Foschini:  
**“Understanding and Enhancing the Scalability of IMS-based Services for Wireless Local Networks”, 9<sup>th</sup> International Workshop on Wireless Local Networks (WLN’09), tenuto insieme a 34<sup>th</sup> IEEE Conference on Local Computer Networks (LCN’09), pagg. 1033-1039, IEEE Computer Society Press, Zurich, Switzerland, October 2009.**
- WI6** A. Corradi, M. Fanelli, L. Foschini:  
**“Increasing Cloud Power Efficiency through Consolidation Techniques”,**

- IEEE International Workshop on Management of Cloud Systems (MoCS'11), tenuto insieme a 16<sup>th</sup> IEEE International Symposium on Computers and Communications (ISCC'11), pagg. 129-134, IEEE Computer Society Press, Kerkyra (Corfu), Greece, June-July, 2011.
- WI7** F. Bracci, A. Corradi, L. Foschini:  
**"Database security management for healthcare SaaS in the Amazon AWS Cloud"**, IEEE International Workshop on Management of Cloud Systems (MoCS'12), tenuto insieme a 17<sup>th</sup> IEEE International Symposium on Computers and Communications (ISCC'12), pagg. 812-819, IEEE Computer Society Press, Cappadocia, Turkey, July 2012.
- WI8** B. Kantarci, L. Foschini, A. Corradi, H.T. Mouftah:  
**"Inter-and-Intra Data Center VM-Placement for Energy-Efficient Large-Scale Cloud Systems"**, IEEE International Workshop on Management and Security technologies for Cloud Computing (ManSec-CC'12), tenuto insieme a IEEE Global Communications Conference (GLOBECOM'12), IEEE Globecom Workshops (GC Wkshps), pagg. 708-713, IEEE Computer Society Press, Disneyland Hotel - Anaheim, California, USA, December 2012.
- WI9** L. Foschini, M. Tortonesi:  
**"Adaptive and Business-driven Service Placement in Federated Cloud Computing Environments"**, IFIP/IEEE International Workshop on Business-driven IT Management 2013 (BDIM'13), tenuto insieme a IFIP/IEEE International Symposium on Integrated Network Management (IM'13), pagg. 1245-1251, IEEE Computer Society Press, Ghent, Belgio, 27 May 2013.
- WI10** P. Bellavista, A. Corradi, L. Foschini, A. Pernafini:  
**"Automated Provisioning of SaaS Applications over IaaS-Based Cloud Systems"**, IFIP International Workshop on Cloud Storage Optimization (CLOUSO'13), tenuto insieme a IFIP European Conference on Service-Oriented and Cloud Computing (ESOCC'13), pagg. 94-105, Elsevier CCIS vol. 393, Málaga, Spain, September 2013.
- WI11** B. Kantarci, L. Foschini, A. Corradi, H.T. Mouftah:  
 "Dynamic Cloud management for efficient stream processing", IEEE International Workshop on Management of Cloud Systems (MoCS'13), tenuto insieme a 18<sup>th</sup> IEEE International Symposium on Computers and Communications (ISCC'13), pagg. 1-6, IEEE Computer Society Press, Split, Croatia, 7-10 July 2013.
- WI12** A. Corradi, L. Foschini, S. Fraternali, D.J. Arroyo, M. Steinder:  
**"Monitoring applications and services to improve the Cloud Foundry PaaS"**, IEEE International Workshop on Management of Cloud Systems (MoCS'14), tenuto insieme a 19<sup>th</sup> IEEE International Symposium on Computers and Communications (ISCC'14), pagg. 1-6, IEEE Computer Society Press, Madeira, Portugal, 23-26 July 2014.
- WI13** P. Bellavista, F. Caselli, L. Foschini:  
**"Implementing and evaluating V2X protocols over iTETRIS: traffic estimation in the COLOMBO project"**, ACM Symposium on Design and Analysis of Intelligent Vehicular Networks and Applications (DIVANet'14), tenuto insieme a 17<sup>th</sup> ACM International Conference on Modeling, Analysis and Simulation of Wireless and Mobile Systems (MSWiM'14), pagg. 1-6, ACM Press, Montreal, Canada, 21-26 September 2014.
- WI14** R. Belletti, A. Bonfietti, L. Foschini, M. Milano, D. Krajzewicz:  
**"Swarm-based traffic lights policy selection"**, ACM Symposium on Design and Analysis of Intelligent Vehicular Networks and Applications (DIVANet'14), tenuto insieme a 17<sup>th</sup> ACM International Conference on Modeling, Analysis and Simulation of Wireless and Mobile Systems (MSWiM'14), pagg. 1-6, ACM Press, Montreal, Canada, 21-26 September 2014.
- WI15** A. Corradi, G. Curatola, L. Foschini, R. Ianniello, C.R. De Rolt:  
**"Smartphones as Smart Cities Sensors: MCS Scheduling in the ParticipAct Project"**, IEEE International Workshop on Management of Cloud Systems (MoCS'15), tenuto insieme a 20<sup>th</sup> IEEE International Symposium on Computers and Communications (ISCC'15), pagg. 1-6, IEEE Computer Society Press, Larnaca, Cyprus, 6-9 July 2015.

- WI16** M. Mattetti, A. Shulman-Peleg, Y. Allouche, A. Corradi, S. Dolev, L. Foschini:  
**“Securing the infrastructure and the workloads of linux containers”**,  
**IEEE Workshop on Security and Privacy in the Cloud (SPC’15)**, tenuto insieme a **IEEE Conference on Communications and Network Security (CNS 2015)**, pagg. 1-9, IEEE Computer Society Press, Firenze, Italy, 30 September 2015.
- WI17** I.M. Al Jawarneh, P. Bellavista, A. Corradi, R. Montanari, L. Foschini, A. Zanotti:  
**“In-memory Spatial-Aware Framework for Processing Proximity-Alike Queries in Big Spatial Data”**,  
**IEEE International Workshop on Computer Aided Modeling and Design of Communication Links and Networks (CAMAD)**, pagg. 1-6, IEEE Computer Society Press, Barcelona, Spagna, 17-19 September 2018.
- WI18** P. Bellavista, L. Foschini, D. Scotece, K. Karypidou, P. Chatzimisios:  
**“DRIVE: Discovery seRvice for fully-Integrated 5G enVironmEnt in the IoT”**,  
**IEEE International Workshop on Computer Aided Modeling and Design of Communication Links and Networks (CAMAD)**, pagg. 1-6, IEEE Computer Society Press, Barcelona, Spagna, 17-19 September 2018.
- WI19** F. Bosi, A. Corradi, L. Foschini, S. Monti, L. Patera, L. Poli, M. Solimando:  
**“Cloud-enabled Smart Data Collection in Shop Floor Environments for Industry 4.0”**,  
**15th IEEE International Workshop on Factory Communication Systems (WFCS)**, pagg. 1-8, IEEE Computer Society Press, Sundsvall, Sweden, 27-29 May 2019.
- WI20** P. Bellavista; L. Foschini; N. Ghiselli:  
**“Analysis of Growth Strategies in Social Media: The Instagram Use Case”**,  
**2019 IEEE 24th International Workshop on Computer Aided Modeling and Design of Communication Links and Networks (CAMAD)**, IEEE Communications Society, pagg. 1-7, Limassol, Cyprus, 11-13 September 2019.
- WI21** I. Bedhief; L. Foschini; P. Bellavista; M. Kassar; T. Aguilí:  
**“Toward Self-Adaptive Software Defined Fog Networking Architecture for IIoT and Industry 4.0”**,  
**2019 IEEE 24th International Workshop on Computer Aided Modeling and Design of Communication Links and Networks (CAMAD)**, IEEE Communications Society, pagg. 1-5, Limassol, Cyprus, 11-13 September 2019.
- WI22** I. M. A. Jawarneh; P. Bellavista; A. Corradi; L. Foschini; R. Montanari:  
**“Spatially Representative Online Big Data Sampling for Smart Cities”**,  
**2020 IEEE 25th International Workshop on Computer Aided Modeling and Design of Communication Links and Networks (CAMAD)**, IEEE Communications Society, pagg. 1-6, Virtual Conference, 14-16 September 2020.
- WI23** A. Bujari; A. Corradi; L. Foschini; C. E. Palazzi:  
**“Feasibility of Commodity WiFi for Operations Control in an Autonomous Production Site”**,  
**2020 IEEE 25th International Workshop on Computer Aided Modeling and Design of Communication Links and Networks (CAMAD)**, IEEE Communications Society, pagg. 1-6, Virtual Conference, 14-16 September 2020.
- WI24** I. M. Al Jawarneh; P. Bellavista; A. Corradi; L. Foschini; R. Montanari:  
**“Efficiently Integrating Mobility and Environment Data for Climate Change Analytics”**,  
**2021 IEEE 26th International Workshop on Computer Aided Modeling and Design of Communication Links and Networks (CAMAD)**, IEEE Communications Society, pagg. 1-5, Virtual Conference, 25-27 October 2021.
- WI25** J. Rojo; J. Garcia-Alonso; J. Berrocal; L. Foschini; P. Bellavista; J. Hernandez; J. M. Murillo:  
**“Blockchains federation: Developing Personal Health Trajectory-centered health systems”**,  
**2023 IEEE/ACM 23rd International Symposium on Cluster, Cloud and Internet Computing Workshops (CCGridW)**, pagg. 81-88, IEEE Communications Society, Bangalore, India, 1-4 May 2023.
- WI26** L. Rosa, A. Garbugli, L. Patera, L. Foschini:  
**“Supporting vPLC Networking over TSN with Kubernetes in Industry 4.0”**,

**1st Workshop on Enhanced Network Techniques and Technologies for the Industrial IoT to Cloud Continuum**, ACM, pagg. 15-21, New York, USA, 6-8 September 2023.

- WI27** A. Calvio; A. Jindal; A. Bujari; G. S. Aujla; L. Foschini:  
“**A Simulation-based Decision Support System for Urban Traffic Management**”,  
**2023 IEEE 28th International Workshop on Computer Aided Modeling and Design of Communication Links and Networks (CAMAD)**, IEEE Communications Society, pagg. 128-133, Edinburgh, Scotland, 6–8 November 2023.
- WI28** J. L. Herrera; J. Galán-Jiménez; J. Berrocal; P. Bellavista; L. Foschini:  
“**Energy-Efficient QoS-Aware Application and Network Configuration for Next-Gen IoT**”,  
**2023 IEEE 28th International Workshop on Computer Aided Modeling and Design of Communication Links and Networks (CAMAD)**, IEEE Communications Society, pagg. 105-110, Edinburgh, Scotland, 6–8 November 2023.
- WI29** I. M. A. Jawarneh; L. Foschini; A. Corradi:  
“**Efficient Generation of Approximate Region-based Geo-maps from Big Geotagged Data**”,  
**2023 IEEE 28th International Workshop on Computer Aided Modeling and Design of Communication Links and Networks (CAMAD)**, IEEE Communications Society, pagg. 93-98, Edinburgh, Scotland, 6–8 November 2023.
- WI30** J. L. Herrera Gonzalez, S. Montebugnoli, D. Scotece and L. Foschini:  
“**xSTART: xApp Simulated Evaluation Environment for Developers**”,  
**2024 IEEE International Workshop on Metrology for Industry 4.0 & IoT (MetroInd4.0 & IoT)**, Firenze, Italy, 2024, pp. 366-371.
- WI31** R. A. Alshamsi, L. Foschini and I. M. Al Jawarneh:  
“**Health Aware Optimized Route Planner for Reduced Urban Hyperlocal Pollution Exposure**”,  
**2024 IEEE 29th International Workshop on Computer Aided Modeling and Design of Communication Links and Networks (CAMAD)**, Athens, Greece, 2024, pp. 1-6.
- WI32** D. Tazzioli, A. Sabbioni, A. Bujari and L. Foschini:  
“**Empowering Kubernetes with Platform Engineering to Automate IoT Processing Workflows Orchestration at the Edge**”,  
**2024 IEEE 29th International Workshop on Computer Aided Modeling and Design of Communication Links and Networks (CAMAD)**, Athens, Greece, 2024, pp. 1-6.
- WI33** L. Rosa, A. Calvio, A. Garbugli and L. Foschini:  
“**A QoS-Aware Data Distribution Platform for Edge-Based Vehicular Digital Twins in Smart Cities**”,  
**2025 IEEE Wireless Communications and Networking Conference (WCNC)**, Milan, Italy, 2025, pp. 1-6.
- WI34** H. Urgelles *et al.*:  
“**Quantum-Enhanced Software-Defined Networking: A Communication Perspective**”,  
**INFOCOM 2025 - IEEE Conference on Computer Communications Workshops (INFOCOM WKSHPS)**, London, United Kingdom, 2025, pp. 1-6.

## **RECENT TEACHING ACTIVITIES**

- Since the 2021-2022 academic year, I am **professor** of **Distributed Systems** for the Laurea Magistrale in Ingegneria Informatica of the University of Bologna.
- Since the 2019-2020 academic year to the 2020-2021 academic year, I was **professor** of **Mobile Systems** for the Laurea Magistrale in Ingegneria Informatica of the University of Bologna.
- Since the 2009-2010 academic year, I am **professor** of **Computer Basics T-AB** for the Laurea in Ingegneria Elettronica e Telecomunicazioni e Ingegneria dell'Automazione of the University of Bologna.
- **Teaching Assistant** for the Laurea in Ingegneria Informatica, University of Bologna, for the following courses:

- Since the academic year 2010-2011, I am teaching assistant of **Computer Networks T** (9 cfu) held by Prof. A. Corradi.
- Since the academic year 2010-2011 and until the academic year 2012-2013, I was teaching assistant of **Principles, Models and Applications for Distributed Systems M** (6 cfu) held by Prof. M. Boari.
- Since the academic year 2009-2010, I am teaching assistant of **Computer Networks M** (8 cfu) held by Prof. A. Corradi.
- Since the academic year 2005-2006 and until the academic year 2008-2009, I was teaching assistant of **Computer Networks L-S** (6 cfu) held by Prof. A. Corradi.
- Since the academic year 2004-2005 and until the academic year 2009-2010, I was teaching assistant of **Computer Networks L-A** (6 cfu) held by Prof. A. Corradi.
- For the academic years 2006-2007 and 2007-2008, I was **teaching assistant** of Master CESPEM for creation and development of innovative SME in transition countries, for the course **Introduction Computer Science** held by Prof. M. Boari.
- Since the academic years 2010-2011, I was **teaching assistant** of the Master of Marketing, Communications, and New Media, for the course **Web Technologies** held by Prof. A. Corradi.