

Short Curriculum Vitae

Luca Foschini

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QUALIFICATIONS

- He has been habilitated as **Full Professor** in the **national examination** called **Abilitazione Scientifica Nazionale 2018 (fifth round)** for the disciplines 09/H1 (Computer Science Engineering)
- 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"
- From August to September 2002, I was **visiting scholar at University of Illinois at Urbana-Champagin (UIUC)**, Illinois, USA, where I developed part of my thesis under the supervision of Prof. Klara Nahrstedt

SCIENTIFIC ACTIVITIES

MAIN ACHIEVEMENTS

Luca Foschini, Ph.D., is an **Associate Professor** of Distributed and Mobile Systems at the Computer Science and Engineering Dept. (DISI) of the University of Bologna. He has been habilitated as Full Professor in the national examination called Abilitazione Scientifica Nazionale 2018 (fifth round). 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.

He has published over 150 conference and journal papers in these areas, receiving best paper award recognitions from various IEEE conferences, such as ICC'18, ISCC'19, and CAMAD'19, and highly-cited paper mentions in IEEE journals. In particular, from the point of view of his publication record (Google Scholar data – November 2020: h-index=30; i10-index=77; citations=4221), he has co-authored more than 55 international journal/magazine articles (in publication venues that are considered the excellent ones in his research field, such as IEEE Communications Surveys & Tutorials, ACM Computing Surveys, Proceedings of the IEEE, 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, Elsevier Pervasive and Mobile Computing, IEEE Journal in Selected Areas in Communications, IEEE Communications Magazine, IEEE Pervasive Computing, and IEEE Wireless Communications Magazine), guest-edited 5 special issues in international journals/magazines, co-authored 5 chapters in international books, and around 90 additional works published in other international venues

(conferences, workshops etc.) such as CCGrid, ISWC, Globecom, ICC, VTC, LCN, CCNC, ISCC. In addition, Luca Foschini is serving/has served as General Chair for IEEE CAMAD'20 and as TPC Co-Chair of several international venues including: IEEE ICTE'20, IEEE Globecom'19 NGNI Symp, IEEE CAMAD'18, IEEE Mobile Cloud'17, IEEE ISCC'16, IEEE VTC-Fall'14, Transportation, Vehicular Networks, and Telematics track; IEEE MoCS workshop, various editions; ACM ADAMUS'09 workshop, IEEE IWCMC Wireless Networking symposium, various editions; and ACM Q2SWinet symposium various editions. Dr. Foschini is also a member of the Editorial Boards of various international magazines/journals, including: IGI IJHCR, IGI IJARAS, Hindawi IJDSB, and Hindawi WCMC. Moreover, he is a Senior Member of IEEE and a Member of ACM. For a complete list of publications, please refer to: <http://www.lia.deis.unibo.it/Staff/LucaFoschini/htmlDocs/publications.html>.

In addition, Luca Foschini is serving/has served as TPC Co-Chair of several international venues including: IEEE Mobile Cloud'17, IEEE ISCC'16, IEEE VTC-Fall'14, Transportation, Vehicular Networks, and Telematics track; IEEE MoCS workshop, various editions; ACM ADAMUS'09 workshop, IEEE IWCMC Wireless Networking symposium, various editions; and ACM Q2SWinet symposium various editions. Dr. Foschini is also a member of the Editorial Boards of various international magazines/journals, including: IGI IJHCR, IGI IJARAS, Hindawi IJDSB, and Hindawi WCMC. Moreover, he is a Member of IEEE and ACM, and he has been Co-Chair of the IEEE CSIM-TC SIG on Management and Performance Modelling of Communication Platforms for Cloud Systems.

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 PARTICIPATION IN RESEARCH PROJECTS

- **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)
- **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)
- **MURST PRIN** Project "**MOMA: a middleware approach to MOBILE Multimodal web services**", Coordinator Prof. Marco Rocchetti (2006-2007)
- **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)
- **Artemis** Joint Undertaking, Sub-Programme 3, "**Smart Objects For Intelligent Applications (SOFIA)**", Coordinator Dr. Petri Liuha, Nokia Research Finland (2009-2011)
- **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).
- **European 7th Framework Programme (FP7) Large-scale Integrating Project (IP)**, "**Mobile Cloud Networking (MCN)**", Coordinator Dr. Uwe Riss, SAP (Switzerland) AG (2012-2015).

- **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).
- **Pesquisador Visitante Especial (PVE) Project, "Tecnologias inovadoras na gestão participativa da cidade inteligente",** financed by the Brazilian government through the 3^o 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).

RECENT REVIEWING AND ORGANIZATION ACTIVITIES

- **Member of the Editorial Review Board** for the international journals:
 - **IGI International Journal of Handheld Computing Research (IJHCR)** since 2009
 - **IGI International Journal of Adaptive, Resilient, and Autonomic Systems (IJARAS)** since 2009
 - **Hindawi International Journal of Distributed Sensor Networks** since 2013
 - **Hindawi International Wireless and Mobile Computing (IWCMC)** since 2016
- **Guest editor for the Special Issue of:**
 - **IGI International Journal of Adaptive, Resilient, and Autonomic Systems (IJARAS) on Adaptive and Dependable Mobile Ubiquitous Systems (ADAMUS) Workshop, Vol.1, No. 2, April 2010**
 - **Special Issue of 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 of Journal Of Computational Science (JOCS) on the Performance Evaluation of Communications in Distributed Systems and Web based Service Architectures (PEDISWESA) Workshop, Oct. 2017.**
 - **Special Issue of IEEE Cloud Computing Magazine on Mobile Cloud Computing, to be published Mar/Apr 2019.**
- **Reviewer for the international journals/magazines:**
 - **IEEE Communications Magazine** since 2006
 - **IEEE Network Magazine** since 2007
 - **IEEE Wireless Communications Magazine** since 2007
 - **IEEE Transactions on Network and Service Management** since 2009
 - **IEEE Transactions on Computers** since 2012
 - **IEEE Journal on Selected Areas in Communications** since 2012
 - **IEEE Transactions on Cloud Computing** since 2013
 - **IEEE Sensors Journal** since 2013
 - **IEEE Pervasive Computing Magazine** since 2017
 - **ACM/Springer Journal on Mobile Networks and Applications** since 2008
 - **Elsevier Journal of Parallel and Distributed Computing** since 2006
 - **Elsevier Journal on Computers and Electrical Engineering** since 2006
 - **Elsevier Computer Communications Journal** since 2008
 - **Elsevier Journal of Systems Architecture** since 2010
 - **Elsevier Journal of Network and Computer Applications** since 2010
 - **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
 - **Springer Journal of Network and Systems Management** since 2007

- **Wiley Wireless Communications and Mobile Computing** since 2008
- **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
- **Technical Program Co-Chair** of the following international conferences and workshops:
 - **ADAMUS'09**, International Workshop on Adaptive and DependAble Mobile Ubiquitous Systems, London, UK, Luglio 2009;
 - **MoCS'11**, IEEE International Workshop on Management of Cloud Systems, Kerkyra, Greece, Jun. 2011;
 - **IWCMC-WNS'12**, 8th International Wireless Communication and Mobile Computing (IWCMC 2012) - Wireless Networking Symposium, Cipro, Aug. 2012;
 - **MoCS'12**, IEEE International Workshop on Management of Cloud Systems, Cappadocia, Turkey, Jul. 2012;
 - **MoCS'13**, IEEE International Workshop on Management of Cloud Systems, Split, Croatia, Jul. 2013;
 - **IWCMC-WNS'13**, 9th International Wireless Communication and Mobile Computing (IWCMC 2013) - Wireless Networking Symposium, Cagliari, Italy, Jul. 2013;
 - **Q2SWinet'13**, 9th ACM International Symposium on QoS and Security for Wireless and Mobile Networks (Q2SWinet 2013), Barcelona, Italy, Nov. 2013.
 - **IEEE VTC-Fall'14**, Transportation, Vehicular Networks, and Telematics track, Vancouver, Canada, 2014.
 - **ISCC'16**, IEEE International Symposium on Computers and Communications, Messina, Italy, July 2016.
 - **IEEE MC'17**, IEEE International Conference on Mobile Computing, San Francisco, USA, April 2016.
 - **IEEE CAMAD'18**, International Workshop on Computer-Aided Modelling Analysis and Design of Communication Links and Networks, Barcelona, Spain, September 2018.
 - **IEEE GLOBECOM'19**, International Global Communications Conference, Next-Generation Networking and Internet, Hawaii, December 2019.
- **Member of the Technical Program Committee** of 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) (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);
 - **CCSNA**, IEEE Globecom International Workshop on Cloud Computing Systems, Networks, and Applications (since 2013);
 - **Cloud Computing**, IARIA International Conference on Cloud Computing, GRIDs, and Virtualization (since 2012);
 - **CSC**, IEEE International Conference on Cloud and Service Computing (since 2010);
 - **GLOBECOM**, sessions supported by Communications QoS, Reliability and Modelling (CQRM) Technical Committee, IEEE Global Communications Conference (since 2011);

- **ICC**, sessions supported by Communications Quality & Reliability (CQR) Technical Committee, IEEE International Conference on Communications (since 2011);
 - **IM**, IFIP/IEEE International Symposium on Integrated Network Management (2011);
 - **ISCC**, IEEE Symposium on Computers and Communications – ISCC (since 2011);
 - **Kaleidoscope**, ITU/IEEE International Conference (since 2009);
 - **LCN**, IEEE International Conference on Local Computer Networks (since 2013);
 - **MediaWIN**, International Workshop on multiMedia Applications over Wireless Networks, within IEEE Symposium on Computers and Communications – ISCC (since 2009 until 2011);
 - **MobileLearning**, IADIS International Conference on Mobile Learning (since 2008);
 - **NOMS**, IFIP/IEEE Network Operations and Management Symposium (since 2012);
 - **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);
 - **PIMRC**, IEEE International Symposium on Personal, Indoor and Mobile Radio Communications (2008);
 - **TNS**, IADIS International Conference on Telecommunications, Networks and Systems (2009);
 - **WCNC**, IEEE International Conference on Wireless Communications and Networking, Services Track (since 2009);
 - **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 (since 2010).
- **Panelist** for the international conferences/workshops:
 - **ICPS'09**, ACM International Conference on Pervasive Services.
 - **Keynote speaker** for the international conferences/workshops:
 - **P2MNet'09**, IEEE International Workshop on Performance and Management of Wireless and Mobile Networks within the IEEE Conference on Local Computer Networks (LCN);
 - **DERI Workshop on Cloud**, Galway, Irlanda, September 2011.
 - Dr. Foschini hold **several seminars** at the following universities: **University of Ottawa** (Ottawa, Canada) where he is Visiting Researcher at the PARADISE Research Laboratory (prof. Boukerche), **Concordia University** (Montreal, Canada), **UDESC** (Florianopolis, Brasile) where he is Visiting Researcher, **University of Granada** (Granada, Spain).
 - **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 (negli anni 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, Jul. 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, Aug. 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, Jul. 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, Jun. 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, Jun. 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, Jan.-Mar. 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, Apr. 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, Sept. 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, Nov. 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, Jul. 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, Aug. 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, Nov. 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, Feb. 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, Jun. 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, Jan. 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, Apr. 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, Jan. 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”,
 to appear in **IEEE Communications Magazine**, IEEE Communications Society, SI on Smart Cities, Vol. 51, No. 6, pages 112-119, Jun. 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, Oct. 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, Sept. 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, pages 118-127, Mar. 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, preprint - early access articles, Vol. 24, No. 12, pages 2386-2395, Dec. 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, Oct. 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, preprint - early access articles, Vol. 63, No. 10, pages 2549-2562, Oct. 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 1099-1190, 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, Dec. 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, Dec. 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, Oct. 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, Sept. 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, Jan.-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, Dec. 2015.
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IEEE Access, IEEE Communications Society, Vol. 5, pages 2169-3536, March 2017.
- RI40** J. De Benedetto, P. Bellavista, L. Foschini:
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- RI41** O. Andrisano *et al.*:
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Please refer to Google Scholar and Scopus for an updated view of Journals.

Chapters in International Books

- MI1** P. Bellavista, A. Corradi, L. Foschini:
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- MI2** P. Bellavista, A. Corradi, L. Foschini:
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- MI3** A. Corradi, L. Foschini, M. Fanelli:
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Capitolo (da open call) nella monografia **“Cloud Computing: Methods and Practical Approaches”**, a cura di Mahmood Zaigham Springer-Verlag London, ISSN: 1617-7975 ISBN: 978-1-4471-5106-7, pages 133-152, 2013.
- MI4** F. Bracci, A. Corradi, L. Foschini:
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Capitolo (da open call) nella monografia **“Communication Infrastructures for Cloud Computing”**, a cura di H. T. Mouftah e B. Kantarci, IGI GLOBAL New York, ISBN: 978-1-4666-4522-6, doi: 10.4018/978-1-4666-4522-6.ch020, 2013.
- MI5** P. Bellavista, G. Cardone, A. Corradi, L. Foschini, R. Ianniello:
“Crowdsensing in Smart Cities: Technical Challenges, Open Issues, and Emerging Solution Guidelines”,
Chapter in the book **“Social, Economic, and Environmental Sustainability in the Development of Smart Cities”**, Eds. A. Vesco e F. Ferrero, IGI Global, doi:10.4018/978-1-4666-8282-5.ch015, pages 316-338, 2015.

International Conferences

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- CI2** P. Bellavista, A. Corradi, L. Foschini:
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- CI3** P. Bellavista, A. Corradi, L. Foschini:
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- CI4** P. Bellavista, A. Corradi, L. Foschini:
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- CI5** P. Bellavista, A. Corradi, L. Foschini:
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- CI7 P. Bellavista, A. Corradi, L. Foschini:
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- CI10 P. Bellavista, A. Corradi, L. Foschini:
"Enhancing the Scalability of IMS-based Presence Service for LBS Applications",
33rd IEEE International Computer Software and Applications Conference, (COMPSAC'09), pages 29-36, IEEE Computer Society Press, Seattle, Washington, USA, Jul. 2009.
- CI11 A. Corradi, M. Fanelli, L. Foschini:
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- CI12 G. Cardone, A. Corradi, L. Foschini:
"Translucent Middleware Approach to Facilitate WSN Access Management",
 Short paper nei Proceedings di **15th IEEE International Symposium on Computers and Communications (ISCC'10)**, pages 595-598, IEEE Computer Society Press, Riccione, Italy, Jun. 2010.
- CI13 A. Corradi, L. Foschini, L. Nardelli:
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- CI16 A. Boukerche, A. Corradi, M. Fanelli, L. Foschini:
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- CI17 M. Adeyeye, N. Ventura, L. Foschini:
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8th IEEE Consumer Communications and Networking Conference (CCNC'11), pages 1011-1015, IEEE Computer Society Press, Las Vegas, USA, Jan. 2011.
- CI18 A. Boukerche, A. Corradi, M. Fanelli, L. Foschini:
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- CI19 G. Cardone, A. Corradi, L. Foschini:
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- CI20 A. Boukerche, A. Corradi, M. Fanelli, L. Foschini:
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- CI21 P. Bellavista, G. Cardone, A. Corradi, L. Foschini:
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- CI22 O. Biran, A. Corradi, M. Fanelli, L. Foschini, A. Nus, D. Raz, E. Silvera:
"A Stable Network-Aware VM Placement for Cloud Systems",
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"Real-Time Urban Monitoring in Dublin Using Semantic and Stream Technologies",
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- CI27 P. Bellavista, A. Corradi, L. Foschini, A. Pernaflini:
"Data Distribution Service (DDS): A Performance Comparison of OpenSplice and RTI Implementations",
IEEE International Symposium on Computers and Communications (ISCC'13), pages 377-383, IEEE Computer Society Press, Split, Croatia, 7-10 July, 2013.
- CI28 J. Härrri, P. Bellavista, L. Foschini, R. Blokpoel:
"Extending the iTETRIS platform for Smartphone Sensing and Communication Simulation",
European Conference on Transport Research Arena (TRA'14), pages 1-8, Paris, France, 14-17 April 2014.
- CI29 L. Foschini, A. Pernaflini, A. Corradi, M. Rosati, A. Federico, G. Fiameni:
"A performance evaluation of TopHat RNA sequences alignment tool on openstack-based cloud environments",

- International Conference on High Performance Computing & Simulation (HPCS '14), pages 358-365, IEEE Computer Society Press, Bologna, Italy, 21-25 July 2014.
- CI30 G. Cardone, A. Cirri, A. Corradi, L. Foschini, R. Montanari:
"Activity recognition for Smart City scenarios: Google Play Services vs. MoST facilities",
 IEEE International Symposium on Computers and Communications (ISCC'14), pages 1-6, IEEE Computer Society Press, Madeira, Portugal, 23-26 July, 2014.
- CI31 A. Corradi, L. Foschini, R. Ianniello:
"Linked data for Open Government: The case of Bologna",
 IEEE International Symposium on Computers and Communications (ISCC'14), pages 1-7, IEEE Computer Society Press, Madeira, Portugal, 23-26 July, 2014.
- CI32 P. Bellavista, L. Foschini, E. Zamagni:
"V2X Protocols for Low-Penetration-Rate and Cooperative Traffic Estimations",
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- CI33 F. Ongaro, E. Cerqueira, L. Foschini, A. Corradi, M. Gerla:
"Enhancing the quality level support for real-time multimedia applications in software-defined networks",
 IEEE International Conference on Computing, Networking and Communications (ICNC 2015), pages 505-509, IEEE Computer Society Press, Anaheim, California, 16-19 February 2015.
- CI34 A. Portosa, M.M. Rafique, S. Kotoulas, L. Foschini, A. Corradi:
"Heterogeneous cloud systems monitoring using semantic and linked data technologies",
 IFIP/IEEE International Symposium on Integrated Network Management (IM'15) Miniconference, pages 497-503, IEEE Computer Society Press, Ottawa, ON, Canada, 11-15 May 2015.
- CI35 A. Corradi, G. Curatola, L. Foschini, R. Ianniello, C.R. De Rolt:
"Automatic Extraction of POIs in Smart Cities: Big Data Processing in ParticipAct",
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- 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), pages 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",
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- 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), pages 1-6, IEEE Computer Society Press, San Diego, CA, USA, 6-10 December 2015.
- CI39 B. Kantarci, P.M. Glasser, L. Foschini:
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 IEEE Global Communications Conference (GLOBECOM'15), pages 1-7, IEEE Computer Society Press, San Diego, CA, USA, 6-10 December 2015.
- CI40 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), pages 999-1005, IEEE Computer Society Press, Messina, Italy, 27-30 June 2016.

- CI41** 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), pages 1306-1313, IEEE Computer Society Press, Messina, Italy, 27-30 June 2016.
- CI42** 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), pages 1-6, IEEE Computer Society Press, Washington, DC, USA, 4-8 December 2016.

Please refer to Google Scholar and Scopus for an updated view of International Conferences.

International Workshops

- WI1** P. Bellavista, M. Cinque, D. Cotroneo, L. Foschini:
“Integrated Support for Handoff Management and Context Awareness in Heterogeneous Wireless Networks”,
3rd International Workshop on Middleware for Pervasive Ad-Hoc Computing (MPAC’05), within **6th International Middleware Conference**, pages 1-8, ACM Press, Grenoble, Francia, Dec. 2005.
- WI2** P. Bellavista, A. Corradi, L. Foschini:
“SIP-Based Proactive Handoff Management for Session Continuity in the Wireless Internet”,
2nd IEEE International Workshop on Services and Infrastructure for the Ubiquitous and Mobile Internet (SIUMI’06), within **26th International Conference on Distributed Computer Systems (ICDCS’06)**, pages 69-76, IEEE Computer Society Press, Lisbona, Portogallo, Jul. 2006.
- WI3** A. Corradi, L. Foschini:
“A DDS-Compliant P2P Infrastructure for Reliable and QoS-Enabled Data Dissemination”,
6th International Workshop on Hot Topics in Peer-to-Peer Systems (HOTP2P’09), within **23rd IEEE International Parallel & Distributed Processing Symposium (IPDPS’09)**, pages 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”,
4th IEEE International Workshop on multiMedia Applications over Wireless Networks (MediaWin’09), within **14th IEEE International Symposium on Computers and Communications (ISCC’09)**, pages 48-53, IEEE Computer Society Press, Sousse, Tunisia, Jul. 2009.
- WI5** P. Bellavista, A. Corradi, L. Foschini:
“Understanding and Enhancing the Scalability of IMS-based Services for Wireless Local Networks”,
9th International Workshop on Wireless Local Networks (WLN’09), within **34th IEEE Conference on Local Computer Networks (LCN’09)**, pages 1033-1039, IEEE Computer Society Press, Zurich, Switzerland, Oct. 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), within **16th IEEE International Symposium on Computers and Communications (ISCC’11)**, pages 129-134, IEEE Computer Society Press, Kerkyra (Corfu), Greece, Jun.-Jul., 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), within **17th IEEE International Symposium on Computers and Communications (ISCC’12)**, pages 812-819, IEEE Computer Society Press, Cappadocia, Turkey, Jul. 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), within **IEEE IEEE Globecom Workshops (GC Wkshps) Proceedings**, pages 708-713, IEEE Computer Society Press, Disneyland Hotel - Anaheim, California, USA, Dec. 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), within **IFIP/IEEE International Symposium on Integrated Network Management (IM’13)**, pages 1245-1251, IEEE Computer Society Press, Ghent, Belgium, 27 May 2013.
- WI10** P. Bellavista, A. Corradi, L. Foschini, A. Pernaflini:
“Automated Provisioning of SaaS Applications over IaaS-Based Cloud Systems”,
IFIP International Workshop on Cloud Storage Optimization (CLOUSO’13), within **IFIP European Conference on Service-Oriented and Cloud Computing (ESOCC’13)**, pages 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), within **18th IEEE International Symposium on Computers and Communications (ISCC’13)**, pages 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), within **19th IEEE International Symposium on Computers and Communications (ISCC’14)**, pages 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), within **17th ACM International Conference on Modeling, Analysis and Simulation of Wireless and Mobile Systems (MSWIM’14)**, pages 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), within **17th ACM International Conference on Modeling, Analysis and Simulation of Wireless and Mobile Systems (MSWIM’14)**, pages 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), within **20th IEEE International Symposium on Computers and Communications (ISCC’15)**, pages 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), within **IEEE Conference on Communications and Network Security (CNS 2015)**, pages 1-9, IEEE Computer Society Press, Firenze, Italy, 30 September 2015.

Please refer to Google Scholar and Scopus for an updated view of International Workshops.

RECENT TEACHING ACTIVITIES

- 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.