

Curriculum Vitae

Paolo Bellavista

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SOME SUMMARIZED AND PRIMARY ELEMENTS OF MY CV

Source: **Google Scholar** (October 2018)

Citations=5291; h-index=34; g-index=66; cites/year=278.47

Source: **Scopus** (January October)

Citations=3057; h-index=24; cites/year=169.83

In total I am co-author of around 70 articles in international journals/magazines (in publication venues that are considered excellent in my research fields, such as ACM Computing Surveys, IEEE Communication Surveys&Tutorials, IEEE Transactions on Software Engineering, IEEE Journal on Selected Areas in Communications, ACM Transactions on Internet Technology, IEEE Transactions on Vehicular Networks, Elsevier Pervasive and Mobile Computing Journal, Elsevier Journal of Network and Computer Applications, Elsevier Future Generation Computer Systems, IEEE Computer, IEEE Internet Computing, IEEE Pervasive Computing, IEEE Access, IEEE Communications, IEEE Wireless Communications). In addition, I have served as guest editor for around 15 special issues of international journals/magazines (e.g., IEEE Communications, Elsevier Pervasive and Mobile Computing J., Elsevier J. Network and Computing Applications, and Springer Mobile Networks and Applications J.). Moreover, I am co-author of around 15 chapters in international peer-reviewed books and of around 110 additional papers presented in international conferences organized by the primary professional associations and publishers (IEEE, ACM, Springer, ...).

About organization and reviewing activities, I am Editor-in-Chief of the MDPI Computers Journal (2017-) and I am (or have been) member of the Editorial Boards of several international journals/magazines, among which IEEE Transactions on Computers (2011-2015), IEEE Transactions on Network and Service Management (2011-), IEEE Transactions on Services Computing (2008-2017), IEEE Communications Magazine (2003-2011), Elsevier Pervasive and Mobile Computing Journal (2010-), Elsevier Journal on Network and Computing Applications (2015-), Elsevier Journal of Systems Architecture (2003-), Springer Journal of Network and Systems Management (2008-), MDPI Sensors Journal, and SAGE International Journal of Distributed Sensor Networks. About most recent conference organization activities, I have served or am serving as Technical Program Co-Chair of IEEE Mobile Cloud 2015, General Co-Chair of Smart Cloud Networks & Systems (SCNS) 2018, Technical Program Co-Chair of ACM Int. Conf. Distributed Computing and Networking (ICDCN'17), General Co-Chair of ACM ICDCN'18, Workshop Co-Chair of MobiArch'17 (within ACM SIGCOMM), and Technical Program Co-Chair of Int. Conf. on Telecommunications (ICT'17).

Finally, among the roles I am covering and covered to serve my community, I can list the fact that I am member of the Academic Senate of Alma Mater Studiorum – Università di Bologna (2015-2018), member of the Gruppo Tematico di Ateneo (GTA) on ICT (2017-), UNIBO representative and member of the Giunta of the national Group of Computer Engineering (Gruppo Ingegneria Informatica – GII, 2018-), Senior Member of both IEEE (2006-) and ACM (2009-), elected Secretary of the IEEE ComSoc Internet Technical Committee (started Dec. 2017), member of the Steering Committee of the European Technology Platform called Networked European Software and Service Initiative (NESSI, 2009-), and UNIBO representative in the EIT Digital KIC National Steering Committee (2017-).

QUALIFICATIONS AND SENIOR MEMBERSHIPS

- In September 1991, I was named “**Alfiere del Lavoro**” by the President of the Italian Republic Francesco Cossiga (every year the qualification is assigned to the best 25 Italian students who completed their High School studies with the highest average marks over the 5 years)
- In March 1997, I completed my M.Sc. studies **Laurea (with honors) in Electronics Engineering, orientation in Computers** at the University of Bologna, with a thesis on “Methodologies and Environments for Distance Learning in Distributed Systems”
- In April 2001, I completed my **Ph.D. studies in Computer Engineering** at the Dept. of Electronics, Computer Science, and Systems (DEIS) of the University of Bologna, with the doctoral dissertation “Mobile Agent Models and Technologies for Distributed Coordinated Applications in Global Systems”
- In July 2002, I won a public examination for the permanent position of Assistant Professor in the scientific sector ING-INF/05 at the University of Bologna. I covered that position starting from November 2002
- In July 2004, I won a public examination for the permanent position of Associate Professor in the scientific sector ING-INF/05 at the University of Perugia. I covered that position at the University of Bologna starting from November 2005
- I won a public examination for being admitted to the role of Full Professor in the scientific sector ING-INF/05 within the Abilitazione Scientifica Nazionale (National Scientific Habilitating selection) 2012
- I was an **Invited Professor at Université Pierre et Marie Curie (UPMC) – Sorbonne Université** (formerly Paris 6), Paris, France, for three months (from June 10 to September 10, 2017). UPMC is ranked the top university in France and 6th in Europe by both Shanghai and Taiwan rankings. The “Professeur Invité” status is prestigious and the associated appointment process is highly selective, being the status given to only 3 people per year for the whole School of Engineering
- **IEEE Senior Member** since 2006 and **ACM Senior Member** since 2009
- Elected **Secretary of the IEEE ComSoc Internet Technical Committee** (Dec. 2017-Nov. 2019)
- I am the UNIBO representative and one of the members of the Giunta of the national Group of Computer Engineering (Gruppo Ingegneria Informatica – GII), starting from Jan. 2018

SCIENTIFIC ACTIVITIES

PRIMARY RESEARCH TOPICS

- Architectures and systems to support mobile, context-aware, and pervasive applications
- Middleware for dynamic and adaptive mobile services in pervasive computing scenarios and integrated wired-wireless systems in general. Application domains:
 - Integrated management of networks, systems, and services
 - Federation of cloud infrastructures and resources, with special focus on Quality of Service and dynamic resource migration
 - Efficient and scalable integration, with exploitation of dynamically determined localities, of sensors/actuators and cloud computing for Cyber Physical Systems, with special focus on edge/fog computing techniques
 - Online stream processing of big data for cloud-Internet of Things environments
 - Wireless sensor networks and smart space services, with special focus on smart buildings and high scalability in wide-scale urban environments
 - Opportunistic and completely decentralized urban monitoring via vehicular ad-hoc sensor networking
 - Resource replication and dissemination in mobile ad-hoc and dense networks
 - Framework extensions and services for scalability in IP Multimedia Subsystem (IMS) and, more in general, for cloud-based virtual network functions in 4G/5G ecosystems
 - Provisioning of continuous and context-aware services with guarantees/indications of Quality of Service towards mobile users and devices, e.g., by considering predictive and proactive management of horizontal/vertical handovers
 - Opportunistic and cooperative sharing of resources in highly decentralized and heterogeneous environments (integration/federation of heterogeneous subnetworks, simultaneous exploitation of different network interfaces, sharing incentives, ...)
- Mobile agent systems and related standards for open and interoperable programming environments

The above research topics are covered also via the coordination and supervision work of a research group, namely Mobile Middleware Research Group – <http://middleware.unibo.it>. This group, which is coordinated by Antonio Corradi and me, consists of around 6-8 people, including Ph.D. students, PostDoc collaborators and research grant staff, who actively contribute to our research activities and projects, as demonstrated by the list of co-authored publications included in the following parts of this cv.

PARTICIPATION IN COMPETITIVE RESEARCH PROJECTS

(at the end of any project item, I report the organization/coordination role that I am having/had in that project)

- **EU FP7 Large-scale IP**, FP7 Future Networks Call, “Mobile Cloud Networking (MCN)”, Coordinator SAP Germany (2012-2016), overall budget 15.7M€; UNIBO leader
- **EU FP7 STREP**, ICT Call 8 (FP7-ICT-2011-8), “Cooperative Self-Organizing System for low Carbon Mobility at low Penetration Rates (COLOMBO)”, Coordinator DLR Germany (2012-2015), overall budget 2.4M€; task leader
- **Artemis** Joint Undertaking, Innovation Pilot Project, “**Arrowhead**”, Coordinator Lulea U. Technology Sweden (2013-2017), overall budget 46M€; task leader
- **POR-FESR Imprese**, Scalable Identity Management based on Blockchain infrastructures, Company Coordinator CRIF SpA (2016-2017), overall budget 350k€; scientific coordinator
- **POR-FESR Imprese**, MismatchZero, Company Coordinator Cesop Communications srl (2016-2017), overall budget 150k€; scientific coordinator

- **POR-FESR Laboratori**, Smart Architecture for Cultural Heritage in Emilia-Romagna (SACHER), Coordinator Rebecca Montanari (CIRI-ICT, 2016-2017), overall budget 800k€; participant
- **Artemis** Joint Undertaking, Sub-Programme 3, “**Internet of Energy for Electric Mobility**”, Coordinator SINTEF Norway (2011-2014), overall budget 34M€; participant
- **Artemis** Joint Undertaking, Sub-Programme 3, “**Smart Objects For Intelligent Applications (SOFIA)**”, Coordinator Nokia Research Finland (2009-2011), overall budget 27M€; task leader
- **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 (2006-2009), overall budget 0.9M€; participant
- **MURST PRIN** Project “**MOMA: a middleware approach to MOBILE Multimodal web services**”, Coordinator Prof. Marco Rocchetti (2006-2007), overall budget 350k€; participant
- **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), overall budget 2.4M€; participant
- **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 (2003-2007), overall budget 900k€; participant
- Emilia-Romagna Project **Piano Telematico Regionale** - “**Mobile Web Services**”, Coordinator Prof. Aurelio Boari (2004-2006), overall budget 350k€; participant
- **MURST PRIN** Project “**MUSIQUE: Infrastructure for QoS in Web Multimedia Services with Heterogeneous Access**”, Coordinator Prof. Antonio Corradi (2000-2002), overall budget 600k€; task leader
- **CNR** Coordinated Project “**Multimedia Services in Distributed Environments: Architectures, Provisioning, and QoS Management**”, Coordinator Prof. Antonio Puliafito (2001-2002), overall budget 400k€; participant
- **University of Bologna** Special Funds for Selected Research Topics “**Integrated Environments to Support Secure Services**”, Coordinator Prof. Aurelio Boari (1999-2001), overall budget 90k€; participant
- **CNR** Coordinated Project “**Models and Environments for Open, Parallel and Mobile Distributed Systems**”, Coordinator Prof. Antonio Corradi (1997-1999), overall budget 250k€; participant
- **MURST** Project “**MOSAICO: Methodologies and Tools for the Design of High Performance Systems for Distributed Applications**”, Coordinator Prof. Luciano Lenzini (1997-1999), overall budget 1.8M€; participant
- Young Researchers Project of the University of Bologna, “**Mobile Agent Supports for User, Terminal and Resource Mobility in Global Systems**”, Coordinator Paolo Bellavista (2000), overall budget 35k€

THIRD MISSION: INNOVATION AND TECHNOLOGICAL TRANSFER PROJECTS

About the so-called non-competitive research projects related to innovation and technological transfer, I have coordinated and supervised 11 industrial innovation and technological transfer projects. In particular, within the Centro Interdipartimentale per la Ricerca Industriale ICT (CIRI-ICT) of the University of Bologna, I have coordinated and am coordinating several projects receiving direct private funding from both large companies and SMEs, e.g., Telecom Italia SpA, Solair srl (a regional company then acquired by Microsoft USA), CRIF SpA, Cesop Communications srl, ... The total annual budget of the projects I personally lead is generally around 70k€ (average value over the last five years 2013-2017).

REVIEWER OF INTERNATIONAL PROJECTS AND PROJECT PROPOSALS

- Project proposal evaluator for H2020 Innovative Training Networks (ITN), 2014, 2015, 2017
- Project proposal evaluator for H2020 FET-Open, 2018
- FP7 Mid-term Project Reviewer, for both STREP and ITN projects, 2013-2015
- Project proposal evaluator for FP7 Call1, Objective 1.1 “The Network of the Future”, 2007
- Project proposal evaluator for Qatar National Research Foundation (QNRF), 2007, 2009, 2011, 2012
- Project proposal evaluator for Italian, Canadian, French, Kazakhstan, Norwegian, and Romanian National Research Councils and Research Ministers

ORGANIZATION/REVIEWING ACTIVITIES AND EDITORIAL/STEERING BOARDS

I am currently serving as the Editor-in-Chief of the MDPI Computers Journal (since January 2017). Computers (ISSN 2073-431X) is an international scientific open access journal of computer science, including computer and network architectures as its main foci, published quarterly online by MDPI. It is indexed, among the others, in the Emerging Sources Citation Index (ESCI - Web of Science), INSPEC (IET), and DBLP. Computers was selected to participate in Emerging Sources Citation Index (ESCI). Note that ESCI journals are evaluated with priority every year by Web of Science in order to receive their Impact Factor; for Computers we are working to have it at the end of 2018.

In addition, I have been or am member of the Editorial Boards of the following international journals/magazines:

- **IEEE Transactions on Network and Service Management** (2011-)
- **Elsevier Pervasive and Mobile Computing Journal** (2010-)
- **Elsevier Journal on Network and Computer Applications** (2015-)
- **Springer Journal of Network and Systems Management** (2008-)
- **Elsevier Journal of System Architecture** (formerly Microprocessors and Microsystems Journal) (2003-)
- **MDPI Sensors Journal** (2017-)
- **SAGE International Journal on Distributed Sensor Networks** (2016-)
- **IEEE Transactions on Computers** (2011-2015)
- **IEEE Transactions on Services Computing** (2008-2017)
- **IEEE Communications Magazine** (2003-2011)

Moreover, I am a regular reviewer of several international journals/magazines in my primary research fields, such as IEEE Transactions on Mobile Computing, IEEE Transactions on Software Engineering, ACM Computing Surveys, ACM Transactions on Autonomous and Adaptive Systems, IEEE Journal on Selected Areas in Communications, Proceedings of the IEEE, IEEE Computer, IEEE Internet Computing, IEEE Software, IEEE Network, and IEEE Wireless Communications.

In addition, I have served or am serving in the Technical Program Committees of many international conferences and workshops, including:

- **AdHocNets**, EAI International Conference on Ad Hoc Networks (2014-2015)
- **AINA**, IEEE International Conference on Advanced Information Networking and Applications, Track on Pervasive/Ubiquitous Computing and Services (2011-2015)
- **ANT**, International Conference on Ambient Systems, Networks and Technologies (2013-2017)
- **ARM**, International Workshop on Adaptive and Reflective Middleware (2012-2015)
- **CCNC**, IEEE Consumers Communications & Networking Conference (2011, 2012, 2014)
- **CLOUDNET**, IEEE International Conference on Cloud Networking (2014, 2015, 2017)
- **CLOUDTECH**, International Conference on Cloud Computing Technologies and Applications (2015, 2017)
- **COMPSAC**, Annual IEEE International Computers, Software & Applications Conference (2014)
- **COMSWARE**, International Conference on COMMunication System softWARE and middlewARE (2011)
- **CQR**, IEEE International Workshop on Communications Quality and Reliability (2012)
- **EPS**, International Workshop on Engineering Pervasive Service Systems (2012, 2013)
- **EuCNC**, European Conference on Networks and Communications (2017)
- **GIIS**, IEEE Global Information Infrastructure Symposium (2012-2015, 2017, 2018)
- **GIoTS**, IEEE Global IoT Summit (2017)
- **GLOBECOM**, IEEE Global Telecommunications Conference (2006, 2010-2018)
- **I4CT**, International Conference on Computer, Communication and Control Technology (2015)
- **IC3**, International Conference on Contemporary Computing (2010)
- **ICC**, IEEE International Conference on Communications, several tracks (2008-2018)
- **ICCC**, IEEE International Conference on Communications in China (2012)
- **ICCCN**, IEEE International Conference on Computer Communications and Networks (2007, 2008, 2010)
- **ICCVE**, IEEE International Conference on Connected Vehicles (2012-2015)
- **ICDCN**, International Conference on Distributed Computing and Networking (2013-2018)
- **ICDCS**, International Conference on Distributed Computing Systems (2015, 2017)
- **ICMCS**, International Conference on Multimedia Computing and Systems (2012, 2014)
- **ICNC**, International Conference on Computing, Networking and Communications (2013)
- **iCOST**, International Conference on Selected Topics in Mobile and Wireless Networking (2011, 2012)
- **ICPCA**, International Conference on Pervasive Computing and Applications (2008, 2009, 2015)
- **ICT**, International Conference on Telecommunications (2011, 2017)
- **IMIS**, International Conference on Innovative Mobile and Internet Services in Ubiquitous Computing (2014-2015)
- **INFOCOM Workshops**, IEEE International Conference on Computer Communications (2017-2018)
- **INTGAST**, International Conference on Integrated and Sustainable Transportation (2015)
- **ISCC**, IEEE International Symposium on Computers and Communications (2004-2018)
- **IST-AWSN**, International Symposium on Intelligent Techniques for Adhoc and Wireless Sensor Networks (2012-2015)
- **ISWTA**, International Symposium on Wireless Technology and Applications (2012)
- **IWCMC**, International Wireless Communications and Mobile Computing Conference (2014, 2015)
- **Kaleidoscope**, ITU International Conference (2008-2015)
- **LCN**, IEEE International Conference on Local Computer Networks (2009-2015)
- **MASS**, IEEE International Conference on Mobile Ad-hoc and Sensor Systems (2013)
- **MediaWin**, International Workshop on Multimedia Applications (2008-2011)

- **Mobile Cloud**, IEEE International Conference on Mobile Cloud Computing, Services and Engineering (2014-2018)
- **MoMM**, International Conference on Advances in Mobile Computing and Multimedia (2011-2016)
- **MoWNet**, International Conference on Selected Topics in Mobile and Wireless Networking (2013, 2014, 2017)
- **PE-WASUN**, ACM International Symposium on Performance Evaluation of Wireless Ad Hoc, Sensor, and Ubiquitous Networks (2009-2015)
- **PerCom**, IEEE International Conference on Pervasive Computing and Communications (2010, 2011, 2013, 2015-2018)
- **PIMRC**, IEEE International Symposium on Personal, Indoor and Mobile Radio Communications (2012-2013)
- **SAINT**, IEEE/IPSJ International Symposium on Applications and the Internet (2011, 2012)
- **SIIT**, IEEE International Conference on Standardization and Innovation in Information Technology (2015)
- **SMARTCOMP**, IEEE International Conference on Smart Computing (2016-2018)
- **SNeS**, International Workshop on Social Networks and e-Services (2010, 2012)
- **SOCA**, IEEE International Conference on Service Oriented Computing and Applications (2011, 2013)
- **UCAmI**, International Conference on Ubiquitous Computing and Ambient Intelligence (2013-2016)
- **UNET**, International Symposium on Ubiquitous Networking (2017)
- **VECON**, International Workshop on Vehicular Communications and Networking (2010, 2012)
- **WoWMoM**, IEEE International Symposium on a World of Wireless Mobile and Multimedia Networks (2008, 2009, 2011-2018)
- **WCNC**, IEEE Wireless Communications and Networking Conference (2011, 2013-2018)
- **WNS**, International Wireless Networking Symposium (2012)
- **WRECOM**, IEEE International Conference on Wireless Rural and Emergency Communications (2007)
- **WWIC**, International Conference on Wired & Wireless Internet Communications (2014, 2015, 2017)

In addition, I have served my research community by covering several roles in the organization of international conferences and workshops. In particular, I have recently served and am serving as:

- General Co-Chair of ACM ICDCN'18
- General Co-Chair of 4th Smart Cloud Networks & Systems Conf. (SCNS'18)
- Workshop Co-Chair of MobiArch'17 (within ACM SIGCOMM)
- TPC Co-Chair of Int. Conf. on Telecommunications (ICT'17)
- TPC Co-Chair of ACM Int. Conf. Distributed Computing and Networking (ICDCN'17)
- TPC Co-Chair of the Reliable Software Technologies and Communication Middleware track within ACM Symposium on Applied Computing (SAC'16)
- TPC Co-Chair of IEEE Mobile Cloud 2015
- TPC Co-chair of the International Symposium on Mobile, Wearable and Ubiquitous Computing (MOWU), within IEEE COMPSAC, in 2015 and 2016
- General Chair of the International Conference on Ad Hoc Networks (ADHOCNETS'13)
- TPC Co-Chair of the IEEE International Symposium on Computers and Communications (ISCC) in 2006 and 2010
- General Co-Chair of the International Workshop on Self-Managing Pervasive Service Systems (SeMaPS'12, within ICSOC)
- TPC Co-Chair of the International Conference on Advances in Grid and Pervasive Computing (GPC'10)

- TPC Co-Chair of the IFIP/IEEE International Conference on Management of Multimedia and Mobile Networks and Services (MMNS'09)
- General Co-Chair of the International Workshop on Intelligent systems and Smart Home (WISH'08)
- TPC Co-Chair of the IEEE International Workshop on Middleware Engineering (ME'09, within IEEE Computer Software and Applications Conference - COMPSAC)
- TPC Co-Chair of the ICSE International Workshop on Software Engineering for Pervasive Computing Applications, Systems, and Environments (SEPCASE'07)

Moreover, together with Imrich Chlamtac and Carl Chang, I have launched the series of ICST International Conferences on Mobile Wireless Middleware, Operating Systems, and Applications (Mobilware), which were held from 2008 to 2016 (I served as TPC Co-Chair and General Co-Chair for some editions of it).

Finally, I served as invited keynote speaker, panel chair, and panelist in some international events, such as:

- Fraunhofer FUSECO Forum'17, Berlin, Germany (invited panel chair)
- IEEE Mobile Cloud'16, Oxford, UK (invited keynote speaker)
- IEEE Sensors'11, Limerick, Ireland (invited keynote speaker)
- JITEL'09, Cartagena, Spain (invited keynote speaker)
- IEEE COMPSAC'09, Beijing, China (invited panelist)

PUBLICATIONS (in time order, starting from the most recent ones)

In total I am co-author of around 65 articles in international journals/magazines (in publication venues that are considered excellent in my research fields, such as ACM Computing Surveys, IEEE Communication Surveys&Tutorials, IEEE Transactions on Software Engineering, IEEE Journal on Selected Areas in Communications, ACM Transactions on Internet Technology, IEEE Transactions on Vehicular Networks, Elsevier Pervasive and Mobile Computing Journal, Elsevier Journal of Network and Computer Applications, Elsevier Future Generation Computer Systems, IEEE Computer, IEEE Internet Computing, IEEE Pervasive Computing, IEEE Communications, IEEE Wireless Communications). In addition, I have served as guest editor for around 15 special issues of international journals/magazines (e.g., IEEE Communications, Elsevier Pervasive and Mobile Computing J., Elsevier J. Network and Computing Applications, and Springer Mobile Networks and Applications J.). Moreover, I am co-author of around 15 chapters in international peer-reviewed books and of around 110 additional papers presented in international conferences organized by the primary professional associations and publishers (IEEE, ACM, Springer, ...).

Around 20 of the above publications were invited ones, in particular 1 journal article, 8 book chapters, and the remainder as invited papers to international conferences.

Recent results in Procedures for the Evaluation of Research Quality:

- Last National Valutazione Qualità della Ricerca (VQR) = 2.0 (over a maximum achievable score of 2.0)
- UNIBO Osservatorio Ricerca (2010-2013) = any year in the first decile of UNIBO researchers
- Last UNIBO Valutazione Ricerca Ateneo (VRA) = 8.0 (over a maximum achievable score of 8.0) in 2016, 6.0 (over a maximum achievable score of 6.0) in 2017
- Last national evaluation “Fondo di Finanziamento delle Attività Base di Ricerca (FFABR) = admitted to funding, top 25% (over the whole set of Associate Professors in Italy)

The complete list of publications follows (source: DBLP), organized in types (magazine/journal, guest editorial for special issues, conferences, ...) and in time order starting from the most recent ones.

International Journals and Magazines

- [j73] Paolo Bellavista, Carlo Giannelli, Thomas Lagkas, Panagiotis G. Sarigiannidis:
Quality Management of Surveillance Multimedia Streams Via Federated SDN Controllers in Fiwi-Iot Integrated Deployment Environments.
IEEE Access 6: 21324-21341 (2018)
- [j72] Paolo Bellavista, Antonio Corradi, Luca Foschini, Stefano Monti:
Improved Adaptation and Survivability via Dynamic Service Composition of Ubiquitous Computing Middleware.
IEEE Access 6: 33604-33620 (2018)
- [j71] Thomas Lagkas, Panagiotis G. Sarigiannidis, Paolo Bellavista, Carlo Giannelli:
Multi-stage resource allocation in hybrid 25G-EPON and LTE-Advanced Pro FiWi networks for 5G systems.
IET Networks 7(4): 173-180 (2018)
- [j70] Oreste Andrisano, Iliaria Bartolini, Paolo Bellavista, Andrea Boeri, Luciano Bononi, Alberto Borghetti, Armando Brath, Giovanni Emanuele Corazza, Antonio Corradi, Stefano de Miranda, Fabio Fava, Luca Foschini, Giovanni Leoni, Danila Longo, Michela Milano, Fabio Napolitano, Carlo Alberto Nucci, Gianni Pasolini, Marco Patella, Tullio Salmon Cinotti, Daniele Tarchi, Francesco Ubertini, Daniele Vigo:
The Need of Multidisciplinary Approaches and Engineering Tools for the Development and Implementation of the Smart City Paradigm.
Proceedings of the IEEE 106(4): 738-760 (2018)

- [j69] Paolo Bellavista, Federico Caselli, Antonio Corradi, Luca Foschini:
Cooperative Vehicular Traffic Monitoring in Realistic Low Penetration Scenarios: The COLOMBO Experience.
Sensors 18(3): 822 (2018)
- [j68] Paolo Bellavista, Stefano Chessa, Luca Foschini, Leo Gioia, Michele Girolami:
Human-Enabled Edge Computing: Exploiting the Crowd as a Dynamic Extension of Mobile Edge Computing.
IEEE Communications Magazine 56(1): 145-155 (2018)
- [j67] Luca Tartarini, Marcelo Antonio Marotta, Eduardo Cerqueira, Juergen Rochol, Cristiano Bonato Both, Mario Gerla, Paolo Bellavista:
Software-defined Handover Decision Engine for Heterogeneous Cloud Radio Access Networks.
Computer Communications 115: 21-34 (2018)
- [j66] Panagiotis G. Sarigiannidis, Thomas Lagkas, Stamatia Bibi, Apostolos Ampatzoglou, Paolo Bellavista:
Hybrid 5G Optical-wireless SDN-based Networks, Challenges and Open Issues.
IET Networks 6(6): 141-148 (2017)
- [j65] Hyunbum Kim, Jalel Ben-Othman, Paolo Bellavista:
Collision-free Reinforced Barriers in UAV Networks.
J. Comput. Science 22: 289-300 (2017)
- [j64] Paolo Bellavista, Carlo Giannelli, Stefano Lanzone, Giulio Riberto, Cesare Stefanelli, Mauro Tortonesi:
A Middleware Solution for Wireless IoT Applications in Sparse Smart Cities.
Sensors, MDPI 17(11): 2525 (2017)
- [j63] Paolo Bellavista, Azzedine Boukerche, Tommaso Campanella, Luca Foschini:
The Trap Coverage Area Protocol for Scalable Vehicular Target Tracking.
IEEE Access 5: 4470-4491 (2017)
- [j62] Xiao-Long Liu, Shyan-Ming Yuan, Guo-Heng Luo, Hao-Yu Huang, Paolo Bellavista:
Cloud Resource Management With Turnaround Time Driven Auto-Scaling.
IEEE Access 5: 9831-9841 (2017)
- [j61] Luca Acquaviva, Paolo Bellavista, Filippo Bosi, Antonio Corradi, Luca Foschini, Stefano Monti, Andrea Sabbioni:
NoMISHAP: a Novel Middleware Support for High Availability in Multicloud PaaS.
IEEE Cloud Computing 4(4): 60-72 (2017)
- [j60] Jacopo De Benedetto, Paolo Bellavista, Luca Foschini:
Proximity Discovery and Data Dissemination for Mobile Crowd Sensing using LTE Direct.
Computer Networks 129: 510-521 (2017)
- [j59] Paolo Bellavista, Marcello Cinque, Antonio Corradi, Luca Foschini, Flavio Frattini, Javier Povedano-Molina:
GAMESH: a Grid Architecture for Scalable Monitoring and Enhanced Dependable Job Scheduling.
Future Generation Computer Systems 71: 192-201 (2017)
- [j58] Stefano Chessa, Michele Girolami, Luca Foschini, Raffaele Ianniello, Antonio Corradi, Paolo Bellavista:
Mobile Crowd Sensing Management with the ParticipAct Living Lab.
Pervasive and Mobile Computing 38: 200-214 (2017)
- [j57] Hyunbum Kim, Heekuck Oh, Paolo Bellavista, Jalel Ben-Othman:
Constructing Event-driven Partial Barriers with Resilience in Wireless Mobile Sensor Networks.
Journal of Network and Computer Applications 82: 77-92 (2017)
- [j56] Paolo Bellavista, Carlo Giannelli, Riccardo Zamagna:
The PeRvasive Environment Sensing and Sharing Solution.
Sustainability, MDPI 9(4): 585 (2017)

- [j55] Jaime García-Reinoso, Iván Vidal, Paolo Bellavista, Ignacio Soto, Pedro A. Aranda-Gutiérrez: Transparent Reallocation of Control Functions in IMS Deployments. **IEEE Communications Magazine** 54(1): 106-113 (2016)
- [j54] Giuseppe Martuscelli, Azzedine Boukerche, Luca Foschini, Paolo Bellavista: V2V Protocols for Traffic Congestion Discovery along Routes of Interest in VANETs: a Quantitative Study. **Wireless Communications and Mobile Computing** 16(17): 2907-2923 (2016)
- [j53] Alfredo D'Elia, Fabio Viola, Federico Montori, Marco Di Felice, Luca Bedogni, Luciano Bononi, Alberto Borghetti, Paolo Azzoni, Paolo Bellavista, Daniele Tarchi, Randolf Mock, Tullio Salmon Cinotti: Impact of Interdisciplinary Research on Planning, Running, and Managing Electromobility as a Smart Grid Extension. **IEEE Access** 3: 2281-2305 (2015)
- [j52] Paolo Bellavista, Franco Callegati, Walter Cerroni, Chiara Contoli, Antonio Corradi, Luca Foschini, Alessandro Pernaferini, Giuliano Santandrea: Network Functions Virtualization in Real Cloud Deployments: Opportunities and Technical Challenges. **Computer Networks**, Elsevier, 93: 506-517 (2015)
- [j51] Paolo Bellavista, Antonio Corradi, Luca Foschini, Raffaele Ianniello: Scalable and Cost-Effective Assignment of Mobile Crowdsensing Tasks Based on Profiling Trends and Prediction: The ParticipAct Living Lab Experience **Sensors, MDPI**, 15(8), 18613-18640 (2015)
- [j50] Paolo Bellavista, Carlo Giannelli: Cyber Physical Sensors and Actuators for Privacy- and Cost-Aware Optimization of User-Generated Content Provisioning. **International Journal of Distributed Sensor Networks**, Hindawi, 2015: 1-10 (2015)
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- [c96] Andy Edmonds, Giuseppe Carella, Faqir Zarrar Yousaf, Carlos Goncalves, Thomas Michael Bohnert, Thijs Metsch, Paolo Bellavista, Luca Foschini:
An OCCI-compliant framework for fine-grained resource-aware management in Mobile Cloud Networking.
ISCC 2016: 1306-1313
- [c95] Paolo Bellavista:
Mobile Cloud Networking: Lessons Learnt, Open Research Directions, and Industrial Innovation Opportunities.
MobileCloud 2016: 79-80

- [c94] Eleonora Cau, Marius Corici, Paolo Bellavista, Luca Foschini, Giuseppe Carella, Andy Edmonds, Thomas Michael Bohnert:
Efficient Exploitation of Mobile Edge Computing for Virtualized 5G in EPC Architectures.
MobileCloud 2016: 100-109
- [c93] Antonello D'Aloia, Matteo Lelli, Duckki Lee, Sumi Helal, Paolo Bellavista:
Cicero: Middleware for Developing Persuasive Mobile Applications.
PERSUASIVE 2016: 137-149
- [c92] Antonio Murgia, Giacomo Ghidini, Stephen P. Emmons, Paolo Bellavista:
Lightweight Internet Traffic Classification: A Subject-Based Solution with Word Embeddings.
SMARTCOMP 2016: 1-8
- [c91] Paolo Bellavista, Luca Stornaiuolo:
State-of-the-Art Multihoming Solutions for Android: a Quantitative Evaluation and Experience Report.
CNSM, 11th International Conference on Network and Service Management, 2015:1-4
- [c90] Paolo Bellavista, Antonio Corradi, Alessandro Zanni:
Integrating mobile Internet of Things and cloud computing towards scalability: Lessons learned from existing fog computing architectures and solutions.
3rd International IBM Cloud Academy Conference (ICACON) 2015: 1-10
- [c89] Jérôme Härrri, Paolo Bellavista, Luca Forschini, Robbin Blokpoel:
Extending the iTETRIS platform for Smartphone Sensing and Communication Simulation
TRA 2014: 1-8
- [c88] Andrea Reale, Paolo Bellavista, Antonio Corradi, Michela Milano:
Evaluating CP Techniques to Plan Dynamic Resource Provisioning in Distributed Stream Processing.
CPAIOR 2014: 193-209
- [c87] Paolo Bellavista, Antonio Corradi, Spyros Kotoulas, Andrea Reale:
Adaptive Fault-Tolerance for Dynamic Resource Provisioning in Distributed Stream Processing Systems.
EDBT 2014: 85-96
- [c86] Roberto Coluccio, Giacomo Ghidini, Andrea Reale, David Levine, Paolo Bellavista, Stephen P. Emmons, Jeffrey O. Smith:
Online stream processing of machine-to-machine communications traffic: A platform comparison.
ISCC 2014: 1-7
- [c85] Constantinos Patsakis, Riccardo Venanzi, Paolo Bellavista, Agusti Solanas, Mélanie Bourouche:
Personalized medical services using smart cities' infrastructures.
MeMeA 2014: 665-669
- [c84] Paolo Bellavista, Federico Caselli, Luca Foschini:
Implementing and evaluating V2X protocols over iTETRIS: traffic estimation in the COLOMBO project.
DIVANet@MSWiM 2014: 25-32
- [c83] Zhijing Qin, Grit Denker, Carlo Giannelli, Paolo Bellavista, Nalini Venkatasubramanian:
A Software Defined Networking architecture for the Internet-of-Things.
NOMS 2014: 1-9
- [c82] Zhijing Qin, Luca Iannario, Carlo Giannelli, Paolo Bellavista, Grit Denker, Nalini Venkatasubramanian:
MINA: A reflective middleware for managing dynamic multinet network environments.
NOMS 2014: 1-4
- [c81] Paolo Bellavista, Antonio Corradi, Andrea Reale, Nicola Ticca:
Priority-Based Resource Scheduling in Distributed Stream Processing Systems for Big Data Applications.
UCC 2014: 363-370

- [c80] Paolo Bellavista, Luca Foschini, Enrico Zamagni:
V2X Protocols for Low-Penetration-Rate and Cooperative Traffic Estimations.
VTC Fall 2014: 1-6
- [c79] Daniel Krajzewicz, Marek Heinrich, Michela Milano, Paolo Bellavista, Thomas Stütze, Jérôme Härrı, Thrasyvoulos Spyropoulos, Robbin Blokpoel, Stefan Hausberger, Martin Fellendorf
COLOMBO: Investigating the Potential of V2X for Traffic Management Purposes Assuming Low Penetration Rates.
ITS 2013: 1-12
- [c78] Paolo Bellavista, Antonio Corradi, Luca Foschini, Alessandro Pernaıını:
Automated Provisioning of SaaS Applications over IaaS-Based Cloud Systems.
ESOCC Workshops 2013: 94-105
- [c77] Giuseppe Martuscelli, Azzedine Boukerche, Paolo Bellavista:
Discovering traffic congestion along routes of interest using VANETs.
GLOBECOM 2013: 528-533
- [c76] Weishan Zhang, Klaus Marius Hansen, Paolo Bellavista:
A Research Roadmap for Context-Awareness-Based Self-managed Systems.
ICSOC Workshops 2013: 275-283
- [c75] Paolo Bellavista, Carlo Giannelli, Massimiliano Mattetti:
A practical approach to easily monitoring and managing IaaS environments.
ISCC 2013: 16-21
- [c74] Paolo Bellavista, Antonio Corradi, Luca Foschini, Alessandro Pernaıını:
Data Distribution Service (DDS): A performance comparison of OpenSplice and RTI implementations.
ISCC 2013: 377-383
- [c73] Paolo Bellavista, Antonio Corradi, Spyros Kotoulas, Andrea Reale:
Dynamic datacenter resource provisioning for high-performance distributed stream processing with adaptive fault-tolerance.
Middleware Demo & Poster Track 2013: 13:1-13:2
- [c72] Paolo Bellavista, Carlo Giannelli, Stefano Poli:
Social-Aware Differentiated Visibility of Home-to-Home Shared Resources in Spontaneous Networks.
MOBILWARE 2013: 52-60
- [c71] Paolo Bellavista, Antonio Corradi, Andrea Reale:
Design and Implementation of a Scalable and QoS-aware Stream Processing Framework: The Quasit Prototype.
GreenCom 2012: 458-467
- [c70] Paolo Bellavista, Veronica Conti, Carlo Giannelli, Jukka Honkola:
The Smart-M3 Semantic Information Broker (SIB) Plug-In Extension: Implementation and Evaluation Experiences.
GreenCom 2012: 704-711
- [c69] Paolo Bellavista, Giuseppe Carella, Luca Foschini, Thomas Magedanz, Florian Schreiner, Konrad Campowsky:
QoS-aware elastic cloud brokering for IMS infrastructures.
ISCC 2012: 157-160
- [c68] Paolo Bellavista, Carlo Giannelli:
Middleware for Semantic Multicast in Spontaneous Multi-hop Networks.
MOBILWARE 2012: 45-61
- [c67] Paolo Bellavista, Antonio Corradi, Andrea Reale:
The QUASIT Model and Framework for Scalable Data Stream Processing with Quality of Service.
MOBILWARE 2012: 92-107
- [c66] Paolo Bellavista (invited paper):
Pervasive Computing at Scale: Challenges and Research Directions.

- IEEE Sensors Conf. 2011: 639-642
- [c65] Paolo Bellavista, Antonio Corradi, Damiano Fontana, Stefano Monti:
Off-the-shelf ready to go middleware for self-reconfiguring and self-optimizing ubiquitous computing applications.
ICUIMC 2011: 7
- [c64] Paolo Bellavista, Antonio Corradi, Andrea Reale:
Effective epidemic dissemination of multimedia metadata in Peer-to-Peer overlay networks: The Metis architecture and prototype.
ISCC 2011: 1073-1080
- [c63] Alfredo D'Elia, Luca Roffia, Guido Zamagni, Fabio Vergari, Alessandra Toninelli, Paolo Bellavista:
Smart applications for the maintenance of large buildings: How to achieve ontology-based interoperability at the information level.
ISCC 2010: 1-6
- [c62] Paolo Bellavista, Antonio Corradi, Carlo Giannelli:
The real Ad-hoc Multi-hop Peer-to-peer (RAMP) middleware: An easy-to-use support for spontaneous networking.
ISCC 2010: 463-470
- [c61] Alfredo D'Elia, Luca Roffia, Guido Zamagni, Fabio Vergari, Paolo Bellavista, Alessandra Toninelli, Sandra Mattarozzi:
Smart applications for the maintenance of large buildings: How to achieve ontology-based interoperability at the information level.
ISCC 2010: 1077-1082
- [c60] Paolo Bellavista, Carlo Giannelli:
Internet Connectivity Sharing in Multi-path Spontaneous Networks: Comparing and Integrating Network- and Application-Layer Approaches.
MOBILWARE 2010: 84-99
- [c59] Paolo Bellavista, Antonio Corradi, Luca Foschini:
Enhancing the Scalability of IMS-Based Presence Service for LBS Applications.
COMPSAC (1) 2009: 29-36
- [c58] Diego Costantini, Paolo Bellavista, Saverio Niccolini:
PreQuEst: A Scalable and Proactive Quality Enrichment for Presence Services.
ICC 2009: 1-6
- [c57] Paolo Bellavista, Antonio Corradi, Luca Foschini:
Effective adaptation decisions based on context-aware proactive handoff for mobile multimedia continuity maintenance.
ISCC 2009: 48-53
- [c56] Paolo Bellavista, Antonio Corradi, Luca Foschini:
Understanding and enhancing the scalability of IMS-based services for Wireless Local Networks.
LCN 2009: 1033-1039
- [c55] Paolo Bellavista, Carlo Giannelli:
Middleware Solutions for Self-organizing Multi-hop Multi-path Internet Connectivity Based on Bluetooth.
MOBILWARE 2009: 58-71
- [c54] Paolo Bellavista, Antonio Corradi, Luca Foschini:
An IMS-Based Middleware Solution for Energy-Efficient and Cost-Effective Mobile Multimedia Services.
MOBILWARE 2009: 280-294
- [c53] Paolo Bellavista, Carlo Giannelli (invited paper):
Social sharing of connectivity resources: control and encouragement of unselfishness in mobile environments.
MobiMedia 2009
- [c52] Paolo Bellavista, Eugenio Magistretti:

- How node mobility affects k-hop cluster quality in Mobile Ad Hoc NETWORKS: A quantitative evaluation.
ISCC 2008: 750-756
- [c51] Paolo Bellavista, Antonio Corradi, Luca Foschini:
An IMS vertical handoff solution to dynamically adapt mobile multimedia services.
ISCC 2008: 764-771
- [c50] Paolo Bellavista, Antonio Corradi, Carlo Giannelli:
A layered infrastructure for mobility-aware best connectivity in the heterogeneous wireless internet.
MOBILWARE 2008: 25
- [c49] Paolo Bellavista, Antonio Corradi, Carlo Giannelli (invited paper):
Context-Aware Middleware for Reliable Multi-hop Multi-path Connectivity.
SEUS 2008: 66-78
- [c48] Uichin Lee, Eugenio Magistretti, Mario Gerla, Paolo Bellavista, Pietro Liò, Kang-Won Lee:
Bio-Inspired Multi-agent Collaboration for Urban Monitoring Applications.
BIOWIRE 2007: 204-216
- [c47] Paolo Bellavista:
Middleware for Next-Generation Converged Networks and Services: Myths or Reality?.
COMPSAC (1) 2007: 10-15
- [c46] Paolo Bellavista, Eugenio Magistretti (invited paper):
k-hop Backbone Formation in Ad Hoc Networks.
ICCCN 2007: 479-484
- [c45] Paolo Bellavista, Antonio Corradi, Carlo Giannelli (invited paper):
Mobility-Aware Connectivity for Seamless Multimedia Delivery in the Heterogeneous Wireless Internet.
ISCC 2007
- [c44] Paolo Bellavista, Antonio Corradi, Luca Foschini (invited paper):
Context-Aware Multimedia Middleware Solutions for Counteracting IEEE 802.11 Performance Anomaly.
MUE 2007: 9-16
- [c43] Eugenio Magistretti, Jiejun Kong, Uichin Lee, Mario Gerla, Paolo Bellavista, Antonio Corradi:
A Mobile Delay-Tolerant Approach to Long-Term Energy-Efficient Underwater Sensor Networking.
WCNC 2007: 2866-2871
- [c42] Giacomo Angione, Paolo Bellavista, Antonio Corradi, Eugenio Magistretti:
A k-hop Clustering Protocol for Dense Mobile Ad-Hoc Networks.
ICDCS Workshops 2006: 10
- [c41] Paolo Bellavista, Antonio Corradi, Luca Foschini:
SIP-Based Proactive Handoff Management for Session Continuity in the Wireless Internet.
ICDCS Workshops 2006: 69
- [c40] Paolo Bellavista, Antonio Corradi, Carlo Giannelli:
Evaluating Filtering Strategies for Decentralized Handover Prediction in the Wireless Internet.
ISCC 2006: 167-174
- [c39] Paolo Bellavista, Antonio Corradi, Luca Foschini:
Proactive Management of Distributed Buffers for Streaming Continuity in Wired-Wireless Integrated Networks.
NOMS 2006: 351-360
- [c38] Uichin Lee, Eugenio Magistretti, Biao Zhou, Mario Gerla, Paolo Bellavista, Antonio Corradi:
Efficient Data Harvesting in Mobile Sensor Platforms.
PerCom Workshops 2006: 352-356
- [c37] Paolo Bellavista, Antonio Corradi, Luca Foschini:
MUMOC: An Active Infrastructure for Open Video Caching.

- DFMA 2005: 64-71
- [c36] Paolo Bellavista, Antonio Corradi, Carlo Giannelli:
Adaptive Buffering-Based on Handoff Prediction for Wireless Internet Continuous Services.
HPCC 2005: 1021-1032
- [c35] Paolo Bellavista, Antonio Corradi, Stefano Monti:
Integrating Web Services and Mobile Agent Systems.
ICDCS Workshops 2005: 283-290
- [c34] Paolo Bellavista, Antonio Corradi, Carlo Giannelli:
Mobile Proxies for Proactive Buffering in Wireless Internet Multimedia Streaming.
ICDCS Workshops 2005: 297-304
- [c33] Paolo Bellavista, Antonio Corradi, Eugenio Magistretti:
Comparing and Evaluating Lightweight Solutions for Replica Dissemination and Retrieval in Dense MANETs.
ISCC 2005: 43-50
- [c32] Paolo Bellavista, Marcello Cinque, Domenico Cotroneo, Luca Foschini:
Integrated support for handoff management and context awareness in heterogeneous wireless networks.
MPAC 2005: 1-8
- [c31] Paolo Bellavista, Antonio Corradi, Luca Foschini:
Application-Level Middleware to Proactively Manage Handoff in Wireless Internet Multimedia.
MMNS 2005: 156-167
- [c30] Paolo Bellavista, Antonio Corradi, Eugenio Magistretti:
REDMAN: A Decentralized Middleware Solution for Cooperative Replication in Dense MANETs.
PerCom Workshops 2005: 158-162
- [c29] Paolo Bellavista, Antonio Corradi, Eugenio Magistretti:
Lightweight Replication Middleware for Data and Service Components in Dense MANETs.
WOWMOM 2005: 142-152
- [c28] Paolo Bellavista, Antonio Corradi, Luca Foschini:
Java-Based Proactive Buffering for Multimedia Streaming Continuity in the Wireless Internet.
WOWMOM 2005: 448-450
- [c27] Paolo Bellavista, Antonio Corradi, Luca Foschini:
MUM: a middleware for the provisioning of continuous services to mobile users.
ISCC 2004: 498-505
- [c26] Paolo Bellavista, Antonio Corradi:
A QoS management middleware based on mobility prediction for multimedia service continuity in the wireless Internet.
ISCC 2004: 531-538
- [c25] Paolo Bellavista, Antonio Corradi, Carlo Giannelli:
Mobility Prediction for Mobile Agent-Based Service Continuity in the Wireless Internet.
MATA 2004: 1-12
- [c24] Paolo Bellavista, Cesare Stefanelli, Mauro Tortonese:
The ubiQoS Middleware for Audio Streaming to Bluetooth Devices.
MobiQuitous 2004: 138-145
- [c23] Paolo Bellavista, Cesare Stefanelli, Mauro Tortonese:
Middleware-Level QoS Differentiation in the Wireless Internet: The UbiQoS Solution for Audio Streaming over Bluetooth.
QSHINE 2004: 172-180
- [c22] Paolo Bellavista, Antonio Corradi, Silvia Vecchi:
Application Domain Accounting for Roaming Services.
FTDCS 2003: 359-366
- [c21] Paolo Bellavista, Rebecca Montanari, Daniela Tibaldi:

- COSMOS: A Context-Centric Access Control Middleware for Mobile Environments.
MATA 2003: 77-88
- [c20] Paolo Bellavista, Antonio Corradi, Rebecca Montanari, Cesare Stefanelli:
Policy-Driven Binding to Information Resources in Mobility-Enabled Scenarios.
Mobile Data Management 2003: 212-229
- [c19] Paolo Bellavista, Antonio Corradi, Silvia Vecchi:
Pervasive Accounting of Resource Consumption for Wireless Services with Adaptive QoS.
MMNS 2003: 155-169
- [c18] Paolo Bellavista, Antonio Corradi, Silvia Vecchi:
QoS-aware Accounting in Mobile Computing Scenarios.
PDP 2003: 537-543
- [c17] Paolo Bellavista, Antonio Corradi, Eugenio Magistretti:
Proxy-based Middleware for Service Continuity in Mobile Ad Hoc Networks.
WOA 2003: 1-8
- [c16] Paolo Bellavista, Antonio Corradi, Silvia Vecchi:
An Integrated Resource Management Architecture for Wireless Smart Environments.
WOA 2003: 49-56
- [c15] Paolo Bellavista, Antonio Corradi:
Mobile Middleware Solutions for the Adaptive Management of Multimedia QoS to Wireless
Portable Devices.
WORDS Fall 2003: 283-291
- [c14] Paolo Bellavista, Antonio Corradi:
How to support Internet-based distribution of video on demand to portable devices.
ISCC 2002: 126-132
- [c13] Paolo Bellavista, Antonio Corradi, Silvia Vecchi:
Mobile agent solutions for accounting management in mobile computing.
ISCC 2002: 753-760
- [c12] Francesco Baschieri, Paolo Bellavista, Antonio Corradi:
Mobile Agents for QoS Tailoring, Control and Adaptation over the Internet: the ubiQoS
Video on Demand Servic.
SAINT 2002: 109-118
- [c11] Paolo Bellavista, Antonio Corradi, Silvia Vecchi:
Mobile Agents for Usage-based Accounting in Wireless Ubiquitous Environments.
WOA 2002: 124-130
- [c10] Paolo Bellavista, Antonio Corradi, Cesare Stefanelli:
How to Monitor and Control Resource Usage in Mobile Agent Systems.
DOA 2001: 65-75
- [c9] Paolo Bellavista, Antonio Corradi, Rebecca Montanari, Cesare Stefanelli:
An Active Middleware to Control QoS Level in Multimedia Services.
FTDCS 2001: 126-132
- [c8] Paolo Bellavista, Antonio Corradi, Domenico Cotroneo, Stefano Russo:
Integrating Mobile Agent Infrastructures with CORBA-based Distributed Multimedia
Applications.
PDP 2001: 121-128
- [c7] Paolo Bellavista, Antonio Corradi, Cesare Stefanelli:
CORBA Solutions for Interoperability in Mobile Agent Environments.
DOA 2000: 283-289
- [c6] Paolo Bellavista, Antonio Corradi, Rebecca Montanari, Cesare Stefanelli:
Security in Programmable Network Infrastructures: The Integration of Network and
Application Solutions.
IWAN 2000: 262-276
- [c5] Paolo Bellavista, Antonio Corradi, Cesare Stefanelli:
A mobile agent infrastructure for terminal, user, and resource mobility.
NOMS 2000: 877-890

- [c4] Paolo Bellavista, Antonio Corradi, Cesare Stefanelli:
A Mobile Agent Infrastructure for the Mobility Support.
ACM SAC (2) 2000: 539-546
- [c3] Paolo Bellavista, Antonio Corradi, Andrea Tomasi:
The Mobile Agent Technology to Support and to Access Museum Information.
ACM SAC (2) 2000: 1006-1013
- [c2] Paolo Bellavista, Antonio Corradi, Rebecca Montanari, Cesare Stefanelli:
How a Secure and Open Mobile Agent Framework Suits Electronic Commerce Applications.
WOA 2000: 13-18
- [c1] Paolo Bellavista, Antonio Corradi, Cesare Stefanelli:
A Secure and Open Mobile Agent Programming Environment.
ISADS 1999: 238-245

TEACHING ACTIVITIES AND OTHER COMMUNITY SERVICES

In short, since the 2010/2011 academic year my primary teaching activity consists of 2 full courses (8 ECTS each) and one module (6 ECTS), i.e., respectively, Mobile Systems M and Distributed Systems M for the Laurea Magistrale in Computer Engineering, and one module of Web Technologies T for the Laurea in Computer Engineering, for an overall amount of 22 ECTS and 188 hours of annual frontal teaching.

Here you can find the complete list of the courses I was responsible for:

- Since the 2010/2011 academic year, **Mobile Systems M (8 ECTS)** for the Laurea Magistrale in Computer Engineering, University of Bologna. The course is taught in English starting from the 2015/2016 academic year
- Since the 2008/2009 academic year, **Distributed Systems LS/M (8 ECTS)**, taught in English) for the Laurea Specialistica/Magistrale in Computer Engineering, University of Bologna
- Since the 2010/2011 academic year, 6 ECTS module of **Web Technologies T (12 ECTS overall)** for the Laurea in Computer Engineering, University of Bologna
- In the 2009/2010 academic year, **Computer Science Basics and Numeric Calculus T (6 ECTS)** for the Laurea in Chemical Engineering, University of Bologna
- From the 2011/2012 academic year to 2016/2017, **Web Technologies for Enterprises** (taught in English, together with Antonio Corradi) for the II Level International Master in Marketing, Communications, and New Media by Bologna Business School, University of Bologna
- In the 2016/2017 academic year, **Web Technology Basics** (taught in English) for the II Level International Master in Digital Commerce by Bologna Business School, University of Bologna
- From the 2005/2006 to the 2007/2008 academic year, **Operating Systems L-A (6 ECTS)** for the Laurea in Computer Engineering, University of Bologna
- From the 2002/2003 to the 2007/2008 academic year, **Computer Science Basics L-A (6 ECTS)** for the Laurea in Computer Engineering, University of Bologna
- In the 2008/2009 academic year, **Computer Science Basics T-1, part 2 (6 ECTS)** for the Laurea in Computer Engineering, University of Bologna
- In the 2004/2005 academic year, **Models and Applications in Computer Networks LS (6 ECTS)** for the Laurea Specialistica in Telecommunications Engineering, University of Bologna
- In the 2008/2009 academic year, **Managing IT** (together with Antonio Corradi) for the II Level Master UniCredit MBA Retail in the Banking and Financial Industry, Alma Graduate School, University of Bologna
- From the 2001/2002 to the 2005/2006 academic year, **Integration of Heterogeneous Distributed Systems and the Web** (together with Antonio Corradi) for the II Level Master in Management and Information Technologies, Alma Graduate School, University of Bologna

In the procedures for evaluation of the quality of teaching activities, in any academic year and for all my courses/modules, I was always evaluated with a score higher than the average score for the School of Engineering and higher than the average score for the Laurea/Laurea Magistrale in Computer Engineering.

PHD STUDENTS SUPERVISION (as advisor or co-advisor)

- Silvia Vecchi, “Middleware for the Provisioning of Adaptive and Configurable Services to Heterogeneous and Mobile Terminals”, 2004
- Luca Foschini, “Support Infrastructures for Multimedia Services with Guaranteed Continuity and QoS”, 2007
- Eugenio Magistretti, “Dynamic Services in Mobile Ad Hoc Networks”, 2007
- Carlo Giannelli, “Middleware for Communication Interface and Context Source Management in Heterogeneous Wireless Environments”, 2008
- Stefano Monti, “Middleware Principles and Design for the Integration of Ubiquitous Mobile Services”, 2009

- Samuele Pasini, “Ubiquitous Internet Middleware: Architecture Design and Prototype Evaluation”, 2009
- Mario Fanelli, “Middleware for Quality-based Context Distribution in Mobile Systems”, 2012
- Giuseppe Cardone, “Middleware for Crowdsensing and Mass Participation in Large-scale Mobile Systems”, 2013
- Andrea Reale, “Quality of Service in Large Scale Data Streams Distribution and Processing”, 2014
- Alessandro Zanni, “Efficient Integration of Sensors/Actuators and the Cloud in Large-scale Cyber Physical Systems”, ongoing PhD, started in November 2014
- Riccardo Venanzi, “Device as a Service (DaaS) in Edge-enabled IoT Environments”, ongoing PhD at the University of Ferrara, I am serving as co-supervisor (first supervisor Cesare Stefanelli, started in November 2015)
- Domenico Scotece, “Scalability in Fog Computing”, ongoing PhD, started in November 2016
- Isam Aljawarneh, “Quality-aware and Efficient Online Stream Processing of Smart City Data”, ongoing PhD, started in November 2016

In addition, I have supervised the thesis work of around 100 students, more or less equally split between Laurea (triennale) and Laurea Specialistica/Magistrale graduating students in Computer Engineering, University of Bologna.

Finally, I served my research community by working as either reviewer or opponent in several Committees for final Ph.D. student evaluation:

- Final PhD Examination, Technical University Berlin, Germany, 2018
- Final PhD Examination, Politecnico di Milano, Italy, 2017
- Final PhD Examination, Aalto University, Finland, 2017
- Final PhD Examination, University of Ferrara, Italy, 2016
- Final PhD Examination, University of Oulu, Finland, 2015
- Final PhD Examination, Technical University Berlin, Germany, 2013
- Final PhD Examination, Tampere University of Technology, Finland, 2011
- Final PhD Examination, University of Cape Town, South Africa, 2010
- Final PhD Examination, University of Fribourg, Switzerland, 2006

PRIMARY SERVICE ACTIVITIES FOR OUR BSC AND MSC

I have served as the responsible person for the Committee of our department BSc and MSc courses (Corso di Studi - CdS) in Computer Engineering for what relates to the procedures of:

- Transfer to our CdS (Laurea and Laurea Magistrale) in Computer Engineering, Bologna campus site, from other CdS of our University of Bologna and of other National or International Universities, from 2010 to 2015
- Admittance to our CdS (Laurea and Laurea Magistrale) in Computer Engineering, Bologna campus site, from 2010 to 2015
- Validation of possible ECTS achieved before the admission to our CdS (Laurea and Laurea Magistrale) in Computer Engineering, Bologna campus site, from 2010 to 2015
- Approval of individual study plans for our CdS (Laurea and Laurea Magistrale) in Computer Engineering, Bologna campus site, from 2010 to 2015

Finally, I am the responsible professor for five Erasmus+ exchange agreements:

- with Université Pierre et Marie Curie – Sorbonne Universités, Paris, France (since 2018)
- with University Francois Rabelais - Tours, France (since 2015)
- with University of Western Macedonia, Greece (since 2015)

- with Alexander Technological Educational Institute of Thessaloniki, Greece (since 2012)
- with Yildiz Technical University, Istanbul, Turkey (since 2010)

PRIMARY INSTITUTIONAL SERVICE ACTIVITIES FOR THE DEPARTMENT AND THE UNIVERSITY OF BOLOGNA (UNIBO)

Most relevant and research institutional activities include:

- Member of the Academic Senate of UNIBO (2015-2018)
- Member of the UNIBO Senate working group for Internationalization (2015-2018)
- UNIBO Representative in the National Steering Committee of the EIT Digital KIC (2017-)
- UNIBO Representative and Member of the Giunta of the national Group of Computer Engineering (Gruppo Ingegneria Informatica – GII, 2018-)
- Member of the UNIBO Gruppo Tematico d’Ateneo (GTA) on ICT
- Responsible for the Coordination Committee of the Framework Agreement about big data research/teaching/formation topics between the University of Bologna and CRIF SpA (since 2015)
- Member of the Steering Committee of the European Technology Platform called Networked European Software and Service Initiative (NESSI), nominated by Consorzio Interuniversitario Nazionale per l’Informatica (CINI)
- Member of the Steering Committee of the Activity Group of the Big Data Value Association (BDVA) cPPP, nominated by CINI
- Member of the Scientific Committee for the Digital Agenda of the municipality of Bologna (2014-2015)
- At the department level I serve in the internal Committee for Research Quality Evaluation (2015-)