

Short Curriculum Vitae

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QUALIFICATIONS AND AWARDS

- In September 1991, I was named “**Alfiere del Lavoro**” by the President of the Italian Republic Francesco Cossiga (every year the title is assigned to the 25 Italian students who end their studies with the highest average marks during all the five years of the High School).
- In March 1997, I received my **Laurea with honors in Electronic Engineering** from the University of Bologna, Italy, discussing the thesis “Methodologies and Environments for Distance Learning in Distributed Systems”
- In April 2001, I received my **Ph.D. in Computer Science Engineering** at the Department of Electronics, Computer Science and Systems of the University of Bologna, discussing the doctoral dissertation “Mobile Agent Models and Technologies for Distributed Coordinated Applications in Global Systems”
- **IEEE Senior Member** since 2006, **ACM Senior Member** since 2009, and **Create-Net Affiliate Partner** since 2009

SCIENTIFIC ACTIVITIES

RESEARCH TOPICS

- Mobile agent systems and related standards for open and interoperable distributed programming environments
- Service oriented architectures for mobile context-aware services
- Middlewares for dynamic and adaptive distributed services based on mobile code technologies. Application domains:
 - Integrated management of networks, systems, and services
 - Continuous service provisioning with guarantees/indications of Quality of Service to mobile users and terminals
 - Context-aware (especially location-aware) service provisioning in wired-wireless integrated networks
 - Predictive management of horizontal and vertical handovers in heterogeneous wireless networks
 - Resource replication and dissemination in dense mobile ad-hoc networks
 - Opportunistic and fully decentralized urban monitoring with vehicular ad-hoc sensor networks

RECENT PARTICIPATION IN RESEARCH PROJECTS

- **Artemis** Joint Undertaking, Sub-Programme 3, “**Smart Objects For Intelligent Applications (SOFIA)**”, Coordinator Dr. Petri Liuha, Nokia Research Finland (2009-2011)
- **MIUR** Negotiated Project **FIRB**, Strategic Program Enabling Technologies for the Information Society – Objective 2: Networks and Net-computing, “**TOCAI: Knowledge-oriented**

Technologies for Internet-based Enterprise Aggregation", Coordinator Prof. Maurizio Lenzerini (2006-2009)

- **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, "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 (2003-2007)
- **Emilia-Romagna Project Piano Telematico Regionale - "Mobile Web Services"**, Coordinator Prof. Aurelio Boari (2004-2006)
- **MURST PRIN Project "MUSIQUE: Infrastructure for QoS in Web Multimedia Services with Heterogeneous Access"**, Coordinator Prof. Antonio Corradi (2000-2002)
- **CNR Coordinated Project "Multimedia Services in Distributed Environments: Architectures, Provisioning, and QoS Management"**, Coordinator Prof. Antonio Puliafito (2001-2002)
- **University of Bologna Special Funds for Selected Research Topics "Integrated Environments to Support Secure Services"**, Coordinator Prof. Aurelio Boari (1999-2001)
- **CNR Coordinated Project "Models and Environments for Open, Parallel and Mobile Distributed Systems"**, Coordinator Prof. Antonio Corradi (1997-1999)
- **MURST Project "MOSAICO: Methodologies and Tools for the Design of High Performance Systems for Distributed Applications"**, Coordinator Prof. Luciano Lenzi (1997-1999)
- **Project Young Researchers of the University of Bologna, "Mobile Agent Supports for User, Terminal and Resource Mobility in Global Systems "**, Responsible Manager Ing. Paolo Bellavista (2000)

RECENT REVIEWING AND ORGANIZATION ACTIVITIES

Member of the Editorial Boards of the international magazines/journals below:

- **IEEE Communications Magazine**, since 2003;
- **IEEE Transactions on Services Computing**, since 2008;
- **Elsevier Pervasive and Mobile Computing Journal**, since 2010;
- **Springer Journal of Network and Systems Management**, since 2008;
- **Elsevier Journal of System Architecture** (formerly Microprocessors and Microsystems Journal), since 2003;
- **International Journal of Handheld Computing Research (IJHCR)**, Information Resources Management Association (IRMA), since 2009.

In addition, since 2009 I am member of the Editorial Board of the series called Lecture Notes of the Institute for Computer Sciences, Social Informatics and Telecommunications Engineering (**LNICST**), published by Springer.

Usual reviewer of the following international magazines/journals:

- **IEEE Transactions on Mobile Computing**, since 2004;
- **IEEE Transactions on Software Engineering**, since 2004;
- **ACM Computing Surveys**, since 2005;
- **ACM Transactions on Autonomous and Adaptive Systems**, since 2009;
- **IEEE Journal on Selected Areas in Communications**, since 2008;
- **Proceedings of the IEEE**, since 2004;
- **IEEE Computer**, since 2000;
- **IEEE Internet Computing**, since 2001;
- **IEEE Software**, since 2003;

- **IEEE Network**, since 2006;
- **IEEE Wireless Communications**, since 2006.

In addition, in several occasions I reviewed papers for **IEEE Transactions on Computers** since 2002, **ACTA International Journal of Computers and Applications** since 2003, **IEEE Multimedia**, and **Elsevier Journal of Systems and Software** since 2004, **IEEE Communications Letters**, **Wiley's Wireless Communications and Mobile Computing Journal**, and **Very Large Data Base Journal** since 2005, **Elsevier Journal of Parallel and Distributed Computing**, **Elsevier Ad Hoc Networks Journal**, and **IEEE Sensors** since 2006, **Elsevier Information and Software Technology**, **Elsevier Computers and Communications**, and **IET Intelligent Transport Systems** since 2008.

I served or am serving in the Technical Program Committee of the following international conferences:

- **AP2PS**, IARIA International Conference on Advances in Peer-to-Peer Systems (2009);
- **AINA**, IEEE International Conference on Advanced Information Networking and Applications, Track on Pervasive/Ubiquitous Computing and Services (2010);
- **ANSS**, SCM/SIGSIM Annual Simulation Symposium (2009, 2010);
- **COMPSAC**, Annual IEEE International Computer Software and Applications Conference (2007, 2008, 2009, 2010);
- **EUC**, IEEE/IFIP International Conference on Embedded and Ubiquitous Computing (2008, 2009);
- **GIC**, IEEE Games Innovation Conference (2009, 2010);
- **GIIS**, IEEE Global Information Infrastructure Symposium (2007, 2008, 2009);
- **GLOBECOM**, IEEE Global Telecommunications Conference, Symposium on Ad Hoc and Sensor Networking (2006, 2010);
- **IAMOT**, International Conference on Management of Technology (2007, 2008, 2009);
- **ICC**, IEEE International Conference on Communications, Track on Multimedia Services Communication Software and Services, and Wireless and Mobile Networking (2009, 2010);
- **ICCCN**, International Conference on Computer Communications and Networks (2007);
- **ICDT**, International Conference on Digital Telecommunications (2009);
- **ICPCA**, International Conference on Pervasive Computing and Applications (2007);
- **ICPS**, International Conference on Pervasive Services (2008, 2009, 2010);
- **IM**, IEEE/IFIP International Symposium on Integrated Network Management (2011);
- **Innovations**, International Conference on Innovations in Information Technology, Track on Pervasive and Ubiquitous Environments (2007);
- **Internet**, IARIA International Conference on the Evolving Internet (2009);
- **IWCMC**, International Wireless Communications and Mobile Computing Conference (2007, 2008, 2009);
- **LCN**, IEEE International Conference on Local Computer Networks (2009);
- **MobiCASE**, ICST International Conference on Mobile Computing, Applications, and Services (2009);
- **Mobility**, IEE International Conference on Mobility (2005, 2006, 2007, 2008, 2009);
- **MOBILIGHT**, ICST International Conference on Mobile Lightweight Wireless Systems (2009);
- **MobiMedia**, ICST International Mobile Multimedia Communications Conference (2009);
- **MUE**, International Conference on Multimedia and Ubiquitous Engineering (2007, 2008, 2009);
- **PerCom**, IEEE International Conference on Pervasive Computing and Communications (2006, 2010);
- **PWC**, IFIP International Conference on Personal Wireless Communications (2004);
- **SAC**, ACM International Symposium on Applied Computing (2007, 2008);
- **SIIT**, IEEE International Conference on Standardization and Innovation in Information Technology (2005, 2007, 2009);
- **SPCA**, International Symposium on Pervasive Computing and Applications (2006);

- **Tridentcom**, International Conference on Testbeds and Research Infrastructures for the Development of Networks and Communities (2009, 2010);
- **UIC**, International Conference on Ubiquitous Intelligence and Computing (2008);
- **WiMob**, IEEE International Conference on Wireless and Mobile Computing, Networking and Communications (2007);
- **WINSYS**, International Conference on Wireless Information Networks and Systems (2009);
- **WoWMoM**, IEEE International Symposium on a World of Wireless Mobile and Multimedia Networks (2008, 2009);
- **WRECOM**, Wireless Rural and Emergency Communications Conference (2007).

In addition, I served or am serving in the Technical Program Committee of the following international workshops:

- **CAML**, International Workshop on Context-Aware Mobile Learning, within IEEE/ACM International Conference on Soft Computing as Transdisciplinary Science and Technology (2008);
- **CANET**, International Workshop on Context Aware Networks Technologies and Applications, within International and Interdisciplinary Conference on Modeling and Using Context (2005);
- **CMMSE**, IEEE International Workshop on Context Modeling and Management for Smart Environments, within IEEE International Conference of Digital Information Management - ICDIM (2007);
- **CQR**, IEEE International Workshop on Communications Quality and Reliability (2003, 2008, 2009);
- **FUMCA**, International Workshop on System Support for Future Mobile Computing Applications, within International Conference on Ubiquitous Computing - UbiComp (2006);
- **IPOM**, IEEE International Workshop on IP Operations & Management (2005);
- **MASS for Global and Homeland Security**, International Workshop on Mobile Ad-hoc and Sensor Systems for Global and Homeland Security, within IEEE Conference on Mobile Ad-hoc and Sensor Systems (MASS) (2007);
- **MATA**, International Workshop on Mobility Aware Technologies and Applications - formerly Mobile Agents for Telecommunication Applications - (2002, 2003, 2004, 2005);
- **MOS**, International Workshop on Mobile Object Systems, within European Conference on Object-Oriented Programming (2005);
- **M-MPAC**, International Workshop on Middleware for Pervasive Mobile and Embedded Computing, within ACM/IFIP/USENIX 10th International Middleware Conference (2009);
- **MPMC**, International Workshop on Managing Context Information in Mobile and Pervasive Environments, within IEEE International Conference on Mobile Data Management (2005);
- **PCAC**, IEEE International Workshop on Pervasive Computing and Ad Hoc Communications (2006);
- **PerNets**, International Workshop on Personalized Networks, within IEEE Consumer Communications and Networking Conference – CCNC (2007, 2008, 2009, 2010);
- **PE-WASUN**, ACM International Workshop on Performance Evaluation of Wireless Ad Hoc, Sensor, and Ubiquitous Networks (2004, 2005, 2006, 2007, 2008, 2009);
- **SIUMI**, International Workshop on Services and Infrastructure for the Ubiquitous and Mobile Internet, within IEEE International Conference on Distributed Computing Systems (2005, 2006);
- **SMD**, MiNEMA Workshop on Middleware for Small Mobile Devices, within International Middleware Conference (2008);
- **Social Networks**, IEEE International Workshop on Social Networks, within IEEE International Conference on Communications – ICC (2010);
- **SPMS**, IEEE Workshop on Next Generation Service Platforms for Future Mobile Systems, within International Symposium on Applications and the Internet – SAINT (2007);
- **WASP**, International Workshop on Wireless Sensor Networks Architectures, Simulation and Programming, within ICST International Conference on Mobile Wireless Middleware, Operating Systems, and Applications – Mobilware (2009);

- **WPS**, IEEE International Workshop on Web and Pervasive Security, within Annual IEEE International Conference on Pervasive Computing and Communications - PerCom (2008).

In addition, since 2008 I am serving as **Chair of the ICST Publications Committee** (together with Vinton G. Cerf): the responsibility is to coordinate the launch of the new ICST publication initiatives (about 30 ICST Transactions, the Springer LNICST proceedings series, the ICST Magazine, ...).

Moreover, I served as **Guest Editor** for several special issues of international journals, such as the **Elsevier Computer Communications Journal** (to be published in 2010), **Elsevier Journal of Systems and Software** (to be published in 2011), **Springer Journal of Mobile Networks and Applications** (MONET – Winter 2008), the **Journal for Systems and Network Management** (JNSM – March 2008), **Elsevier Microprocessors and Microsystems Journal** (March 2003 and July 2007).

About conference organization activities, I am member of the **Advisory Council** of the **IEEE International Symposium on Computers and Communications (ISCC)**, since 2002, I was **TPC Co-Chair of ISCC'06** and of **ISCC'10**. In addition, I founded the **ICST International Conference on Mobile Wireless Middleware, Operating Systems, and Applications (Mobilware)** in 2008 and was **TPC Co-Chair (2008)/General Co-Chair (2009, 2010)** of it, in particular together with Carl Chang (EiC of Computer of the IEEE) in 2010. Moreover, I was **Co-Chair** of the **12th IFIP/IEEE International Conference on Management of Multimedia and Mobile Networks and Services (MMNS'09)**, **General Co-Chair** of the **2nd International Workshop on Intelligent systems and Smart Home (WISH'08)**, **Steering Committee Member** of the **2nd IEEE International Workshop on Middleware Engineering (ME'09)**, within 33rd IEEE Computer Software and Applications Conference - **COMPSAC**, **TPC Co-Chair** of the **International Workshop on Software Engineering for Pervasive Computing Applications, Systems, and Environments (SEPCASE - 2007)**.

Finally, I served as invited keynote speaker at the international event below:

- **JITEL'09**, 8th Jornadas de Ingeniería Telemática, Asociación de Telemática, Cartagena, Spain, Sep. 2009, with a keynote speech entitled "From Vehicular Sensor Networks to Collaborative Pervasive Systems as Social Sharing Spaces".

and as panelist in the following international events:

- **COMPSAC'09**, 33rd Annual IEEE International Computer Software and Applications Conference, IEEE Computer Society, Seattle, USA, July 2009
- **COMPSAC'07**, 31st Annual IEEE International Computer Software and Applications Conference, IEEE Computer Society, Beijing, China, July 2007
- **FTDCS'01**, 8th IEEE Workshop on Future Trends of Distributed Computing Systems, IEEE Computer Society Technical Committee on Distributed Processing, Bologna, Italy, Nov. 2001
- **ISADS'99**, 4th IEEE International Symposium on Autonomous Decentralized Systems, IEEE Computer Society, Tokyo, Japan, Mar. 1999

PUBLICATIONS (in time order)

In total, I have co-authored around 35 international journal/magazine articles (in publication venues that are considered the excellent ones in his research field, such as IEEE TSE, IEEE JSAC, ACM ToIT, IEEE TVT, IEEE Computer, IEEE Internet Computing, IEEE Pervasive Computing, IEEE Communications, IEEE Wireless Communications), 13 chapters in international books, and more than 60 additional works published in other international venues (edited books, conferences, etc.).

Magazines and Journals

- P. Bellavista, A. Corradi, C. Stefanelli, "**An Open Secure Mobile Agent Framework for Systems Management**", **Journal of Network and System Management**, Special Issue on "Mobile Agent-based Network and Service Management", Springer, Vol. 7, No. 3, pp. 323-339, Sep. 1999, IF=0.685.
- P. Bellavista, A. Corradi, C. Stefanelli, F. Tarantino, "**Mobile Agents for Web-based Systems Management**", **Internet Research: Electronic Networking Applications and Policy**, MCB University Press, Vol. 9, No. 5, pp. 360-371, Nov. 1999, IF=0.800.
- P. Bellavista, A. Corradi, C. Stefanelli, "**An Integrated Management Environment for Network Resources and Services**", **IEEE Journal of Selected Areas in Communications**, Special Issue on "Recent Advances in Network Management and Operations", Vol. 18, No. 5, pp. 676-685, May 2000, IF=4.249.
- P. Bellavista, A. Corradi, C. Stefanelli, "**Interoperability and Protection for Mobile Agents: an Open and Secure Programming Environment**", **IEICE Transactions on Communications**, IEICE/IEEE Joint Special Issue on "Autonomous Decentralized Systems", IEICE Communications Society Press, Vol. E83-B, No. 5, pp. 961-972, May 2000, IF=0.427.
- P. Bellavista, A. Corradi, C. Stefanelli, "**Mobile Agent Middleware for Mobile Computing**", **IEEE Computer**, Vol. 34, No. 3, pp. 73-81, Mar. 2001, IF=2.093.
- P. Bellavista, A. Corradi, C. Stefanelli, "**Middleware Services for Interoperability in Open Mobile Agent Systems**", **Microprocessors and Microsystems**, Vol. 25, No. 2, pp. 75-83, Elsevier Science, May 2001, IF=0.652.
- P. Bellavista, A. Corradi, C. Stefanelli, "**The Ubiquitous Provisioning of Internet Services to Portable Devices**", **IEEE Pervasive Computing**, Vol. 1, No. 3, pp. 81-87, July 2002, IF=2.615.
- P. Bellavista, A. Corradi, "**A Mobile Agent-activated Middleware for Internet Video on Demand**", **IPSJ Journal**, Information Processing Society of Japan, Vol. 43, No. 11, pp. 3301-3315, Nov. 2002.
- P. Bellavista, A. Corradi, C. Stefanelli, "**Java for On-line Distributed Monitoring of Heterogeneous Systems and Services**", **The Computer Journal**, Oxford University Press, Vol. 45, No. 6, pp. 595-607, Nov. 2002, IF=1.000.
- P. Bellavista, A. Corradi, R. Montanari, C. Stefanelli, "**Dynamic Binding in Mobile Applications: a Middleware Approach**", **IEEE Internet Computing**, Special Issue on "Mobile Applications", Vol. 7, No. 2, pp. 34-42, Mar. 2003, IF=2.309.
- P. Bellavista, "**Middleware Solutions for QoS in Distributed Multimedia Services**", **Microprocessors and Microsystems**, guest editorial for Special Issue on "Middleware Solutions for QoS in Distributed Multimedia Services", Elsevier Science, Vol. 27, No. 2, pp. 43-44, Mar. 2003, IF=0.652.
- P. Bellavista, A. Corradi, "**Active Middleware for Internet Video on Demand: the QoS-aware Routing Solution in ubiQoS**", **Microprocessors and Microsystems**, Special Issue on "Middleware Solutions for QoS in Distributed Multimedia Services", Elsevier Science, Vol. 27, No. 2, pp. 73-83, Mar. 2003, IF=0.652.
- P. Bellavista, A. Corradi, R. Montanari, C. Stefanelli, "**Context-aware Middleware for Resource Management in the Wireless Internet**", **IEEE Transactions on Software Engineering**, Special Issue on "Wireless Internet", Vol. 29, No. 12, pp. 1086-1099, Dec. 2003, IF=3.569.
- P. Bellavista, A. Corradi, C. Stefanelli, "**Application-level QoS Control for Video-on-Demand**", **IEEE Internet Computing**, Vol. 7, No. 6, pp. 16-24, Nov. 2003, IF=2.309.

- P. Bellavista, A. Corradi, E. Magistretti, "**Lightweight Autonomic Dissemination of Entertainment Services in Wide-scale Wireless Environments**", **IEEE Communications Magazine**, Vol. 43, No. 6, pp. 94-101, June 2005, IF=2.799.
- P. Bellavista, A. Corradi, E. Magistretti, "**REDMAN: an Optimistic Replication Middleware for Read-only Resources in Dense MANETs**", **Pervasive and Mobile Computing Journal**, Elsevier Science, Vol. 1, No. 3, pp. 279-310, Sep. 2005.
- P. Bellavista, A. Corradi, R. Montanari, C. Stefanelli, "**A Mobile Computing Middleware for Location- and Context-Aware Internet Data Services**", **ACM Transactions on Internet Technology**, Vol. 6, No. 4, pp. 356-380, Nov. 2006.
- P. Bellavista, Chi-Ming Chen, guest editorial for the Special Issue on "**Selected Papers from the 11th IEEE Symposium on Computers and Communications (ISCC'06)**", **Microprocessors and Microsystems**, Elsevier Science, Vol. 31, No. 4, pp. 213-214, June 2007, IF=0.652.
- P. Bellavista, A. Corradi, R. Montanari, A. Toninelli, "**Context-aware Semantic Discovery for Next Generation Mobile Systems**", **IEEE Communications**, Vol. 44, No. 9, pp. 62-71, Sep. 2006, IF=2.799.
- U. Lee, E. Magistretti, B. Zhou, M. Gerla, P. Bellavista, A. Corradi, "**MobEyes: Smart Mobs for Urban Monitoring with Vehicular Sensor Networks**", **IEEE Wireless Communications**, Vol. 13, No. 5, pp. 51-57, Oct. 2006. IF=3.180.
- 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, pp. 439-466, Aug. 2007.
- P. Bellavista, C. Stefanelli, M. Tortonesi, "**QoS Management Middleware Solutions for Bluetooth Audio Distribution**", **Pervasive and Mobile Computing Journal**, Elsevier Science, Vol. 4, No. 1, pp. 117-138, Feb. 2008.
- 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**, Science & Engineering Research Support Center (SERSC), Vol. 2, No. 2, pp. 15-33, July 2007.
- T. Magedanz, E. Madeira, P. Bellavista, guest editorial for the Special Issue on "**Management Challenges and Solutions for IP Multimedia Subsystems**", **Journal of Network and Systems Management**, Springer, Vol. 16, No. 1, pp. 12-14, Feb. 2008, IF=0.685.
- P. Bellavista, A. Corradi, C. Giannelli, "**The PoSIM Middleware for Translucent and Context-aware Integrated Management of Heterogeneous Positioning Systems**", **Computer Communications Journal**, Special Issue on "Advanced Location-Based Services", Elsevier Science, Vol. 31, No. 6, pp. 1078-1090, Mar. 2008, IF=0.884.
- P. Bellavista, A. Kupper, S. Helal, "**Location Based Services: Back to the Future**", **IEEE Pervasive Computing**, Vol. 7, No. 2, pp. 85-89, Apr. 2008, IF=2.615.
- E. Magistretti, K.-W. Lee, M. Gerla, P. Bellavista, P. Liò, U. Lee, "**Bio-inspired Multi-Agent Data Harvesting in Vehicular Sensor Networks**", **Ad Hoc Networks Journal**, Elsevier Science, Vol. 7, No. 4, pp. 725-741, June 2009.
- P. Bellavista, A. Corradi, L. Foschini, "**Dynamic and Context-aware Streaming Adaptation to Smooth Quality Degradation due to IEEE 802.11 Performance Anomaly**", **Journal of Supercomputing**, Springer, Vol. 45, No. 1, pp. 15-28, July 2008, IF=0.615.
- P. Bellavista, A. Corradi, C. Giannelli, "**Mobility Awareness for Always Best Served Connectivity in the Heterogeneous Wireless Internet**", **Journal of Mobile Networks and Applications (MONET)**, Springer Verlag, Vol. 14, No. 1, pp. 18-34, Feb. 2009, IF=1.619.
- U. Lee, E. Magistretti, M. Gerla, P. Bellavista, A. Corradi, "**Dissemination and Harvesting of Urban Data using Vehicular Sensing Platforms**", **IEEE Transactions on Vehicular Technology**, Vol. 58, No. 2, pp. 882-901, Feb. 2009, IF=1.308.
- P. Bellavista, A. Corradi, C. Giannelli, "**Mobility-aware Middleware for Self-Organizing Heterogeneous Networks with Multi-hop Multi-path Connectivity**", **IEEE Wireless Communications**, Special issue on "Practical Aspects of Mobility in Wireless Self-Organizing Networks", Vol. 15, No. 6, pp. 22-30, Dec. 2008, IF=3.180.

- P. Bellavista, J. Xie, T. Tugcu, guest editorial for the Special Issue on “*Recent Advances in Mobile Middleware for Wireless Systems and Services*”, **Journal of Mobile Networks and Applications (MONET)**, Springer Verlag, Vol. 14, No. 1, pp. 1-3, Feb. 2009, IF=1.619.
- P. Bellavista, A. Corradi, L. Foschini, “*IMS-based Presence Service with Enhanced Scalability and Guaranteed QoS for Inter-Domain Enterprise Mobility*”, **IEEE Wireless Communications**, Special issue on “Enterprise Mobility Services”, Vol. 16, No. 3, pp. 16-23, June 2009, IF=3.180.
- P. Bellavista, A. Corradi, C. Giannelli, “*Mobility-aware Management of Internet Connectivity in Always Best Served Wireless Scenarios*”, Invited paper, **Journal of Mobile Networks and Applications (MONET)**, Springer Verlag, Special Issue on "Recent Advances in Mobile Middleware for Wireless Systems and Services", Vol. 14, No. 1, pp. 18-34, Feb. 2009, IF=1.619.
- P. Bellavista, A. Corradi, C. Giannelli, “*Multi-hop Multi-path Cooperative Connectivity guided by Mobility, Throughput, and Energy Awareness: a Middleware Approach*”, **Journal of Software**, Academy Publisher, Vol. 4, No. 7, pp. 644-653, Sep. 2009.
- P. Bellavista, M. Cinque, D. Cotroneo, L. Foschini, “*Self-Adaptive Handoff Management for Mobile Streaming Continuity*”, **IEEE Transactions on Network and Service Management**, IEEE Press, Vol. 6, No. 2, pp. 80-94, July 2009.
- P. Bellavista, A. Corradi, L. Foschini, “*IMS-compliant Management of Vertical Handoffs for Mobile Multimedia Session Continuity*”, **IEEE Communications Magazine**, Vol. 48, No. 4, pp. 114-121, June 2010, IF=2.799.
- P. Bellavista, A. Corradi, C. Giannelli, “*A Unifying Perspective on Context-Aware Evaluation and Management of Heterogeneous Wireless Connectivity*”, accepted for publication in **IEEE Communications Surveys & Tutorials**, First Quarter 2011.

Books

- P. Bellavista, A. Corradi (editors), “*The Handbook of Mobile Middleware*”, Computer & Information Science Series coordinated by Sartaj Sahni, Taylor&Francis, ISBN 0849338336, Oct. 2006.
- P. Bellavista (editor), “*EOLSS Theme 6.108 Telecommunication Systems and Technologies*”, Volume 6.108 in the UNESCO Encyclopedia of Life Support Systems (EOLSS), EOLSS Publishers Co Ltd, Spring 2010.

Chapters in International Books

- P. Bellavista, T. Magedanz, “*Middleware Technologies: CORBA and Mobile Agents*”, invited chapter in the book **Coordination for Internet Agents - Models, Technologies, and Applications**, A. Omicini, F. Zambonelli, M. Klusch, R. Tolksdorf (eds.), Springer-Verlag, ISBN 3-540-41613-7, pages 110-152, Mar. 2001.
- P. Bellavista, D. Bottazzi, A. Corradi, R. Montanari, S. Vecchi, “*Mobile Agent Middlewares for Context-aware Applications*”, invited chapter in the book **Handbook of Mobile Computing**, I. Mahgoub, M. Ilyas (eds.), CRC Press, Dec. 2004.
- P. Bellavista, A. Corradi, C. Federici, R. Montanari, D. Tibaldi, “*Security for Mobile Agents: Issues and Challenges*”, invited chapter in the book **Handbook of Mobile Computing**, I. Mahgoub, M. Ilyas (eds.), CRC Press, Dec. 2004.
- P. Bellavista, A. Corradi, C. Stefanelli, “*Policy-based Access Control for Context-aware Services over the Wireless Internet*”, invited chapter in the book **Advances in Security and Payment Methods for Mobile Commerce**, Wen-Chen Hu, Chung-wei Lee, Weidong Kou (eds), Idea Group, Dec. 2004.
- P. Bellavista, D. Bottazzi, A. Corradi, R. Montanari, “*Challenges, Opportunities, and Solutions for Ubiquitous Eldercare*”, peer-reviewed chapter in the book **Web Mobile-Based Application for Healthcare Management**, Latif Al-Hakim (ed.), ISBN 1591406587, IGI Global, Jan. 2007.

- P. Bellavista, L. Garlaschelli, D. Tibaldi, "*Large-scale Integrated Academic Portals*", peer-reviewed article in **Encyclopaedia of Portal Technology and Applications**, Arthur Tatnall (ed.), ISBN 1591409896, IGI Global, Apr. 2007.
- P. Bellavista, A. Corradi, C. Stefanelli, "*Policy-based Access Control for Context-aware Services over the Wireless Internet*", invited reprint in the book **Information Security and Ethics: Concepts, Methodologies, Tools and Applications**, Hamid Nemati (ed), ISBN: 1599049376, IGI Global, Sep. 2007.
- P. Bellavista, A. Corradi, L. Foschini, "*Middleware for Handoff Management in Wireless Internet Mobile Multimedia*", peer-reviewed chapter in the book **Broadband Mobile Multimedia: Techniques and Applications**, Yan Zhang, Shiwen Mao, Laurence T. Yang, Thomas Chen (eds), Taylor&Francis, Dec. 2007.
- P. Bellavista, R. Montanari, D. Tibaldi, A. Toninelli, "*Trust Management and Semantic Context-driven Access Control for Secure Ad-Hoc Collaborations*", peer-reviewed chapter in the book **Handbook of Research on Wireless Security**, Yan Zhang, Jun Zheng, Miao Ma (eds), Idea Group, Dec. 2007.
- P. Bellavista, R. Saracco, "*Telecommunication Systems and Technologies*", to be published as Theme-level Writing in **UNESCO Encyclopedia of Life Support Systems (EOLSS)**, EOLSS Publishers Co Ltd, Sep. 2009.
- P. Bellavista, A. Corradi, A. Toninelli, "*Secure Wireless Access to Services in Enterprise Networks*", invited chapter in **Handbook of Enterprise Integration**, Mostafa Hashem Sherif (ed.), pp. 133-158, Taylor&Francis, ISBN 1420078216, November 2009.
- P. Bellavista, A. Corradi, C. Giannelli, "*Mobility-enabled Resource and Service Discovery*", to be published as invited chapter in the book **Mobile Agents in Networking and Distributed Computing**, Jiannong Cao, Sajal K. Das (eds), Wiley Series in Agent Technology, Autumn 2010.
- P. Bellavista, A. Corradi, L. Foschini, "*Presence Services for the Support of Location-Based Applications*", peer-reviewed chapter in the book **Location-Based Services Handbook: Applications, Technologies, and Security**, Syed Ahson and Mohammad Ilyas (eds), CRC Press, Aug. 2010.

International Conferences

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Recent Teaching Activities

- Since the 2010/2011 academic year, I am professor of **Mobile Systems M (6 cfu)** for the Laurea Magistrale in Ingegneria Informatica of the University of Bologna
- Since the 2008/2009 academic year, I am professor of **Distributed Systems LS/M (6 cfu)** for the Laurea Specialistica/Magistrale in Ingegneria Informatica of the University of Bologna

- Since the 2009/2010 academic year, I am professor of **Computer Basics and Numerical Calculus T (6 cfu)** for the Laurea in Ingegneria Chimica of the University of Bologna
- From 2005/2006 to 2007/2008, I was professor of **Operating Systems L-A (6 cfu)** for the Laurea in Ingegneria Informatica of the University of Bologna
- From 2002/2003 to 2007/2008, I was professor of **Computer Basics L-A (6 cfu)** for the Laurea in Ingegneria Informatica of the University of Bologna
- In the 2008/2009 academic year, I was professor of **Computer Basics T-1, part 2 (6 cfu)** for the Laurea in Ingegneria Informatica of the University of Bologna
- In the 2004/2005 academic year, I was professor of **Models and Applications in Computer Networks LS (6 cfu)** for the Laurea Specialistica in Ingegneria delle Telecomunicazioni of the University of Bologna
- In the 2008/2009 academic year, I am professor (together with Antonio Corradi) of **Managing IT** for the II Level Master UniCredit MBA Retail in the Banking and Financial Industry of the Alma Graduate School of the University of Bologna
- From 2001/2002 to 2005/2006, I was professor of **Integration of Heterogeneous Distributed Systems and the Web** (together with Corradi) for the II Level Master in Management and Information Technologies of the Alma Graduate School of the University of Bologna
- From 2003/2004 to 2005/2006, I was professor of **Distributed Architectures and Network Services** (together with Antonio Corradi) for the II Level Master in System Integrators of COFIMP and University of Bologna