

Curriculum Vitae et Studiorum

Alberto Montresor

November 17th, 2010

1 Introduction

Name Alberto Montresor
Birth Verona, July 28th,1971
Family Married with Alice, father of Federica and Francesco
Address University of Trento, Dipartimento di Ingegneria e Scienza dell'Informazione
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1.1 Current position

2005- Associate Professor – Faculty of Science, University of Trento.

1.2 Previous positions

2002-2005 Assistant researcher – Faculty of Science, University of Bologna.
Summer 2002 Post-doc – University of Bologna. Funded by the European Project ADAPT.
2000-2002 Post-doc – University of Bologna. Funded by Sun Microsystems and MURST.
Summer 1998 Visiting researcher at the Computer Science Department of the University of Twente (Enschede, The Netherlands), invited by Prof. Sape Mullender.

1.3 Education

1995-2000 Ph.D. in Computer Science – University of Bologna.
1990-1995 Master of Science in Computer Science (Laurea) – University of Bologna. 110/110 cum laude.
1985-1990 Scientific High-School Degree – “Liceo Scientifico G. Fracastoro”, Verona. 58/60.

2 Publications

2.1 Books

- [BM10] Alan Bertossi and Alberto Montresor. *Algoritmi e strutture di dati*. Città Studi Edizioni, Torino, 2010.

2.2 Proceedings, editor

- [FBMB11] Pascal Felber, Olivier Beaumont, Alberto Montresor, and Amitabha Bagchi. Topic 7 - Peer-to-Peer Computing. In *Euro-Par*, volume 6852 of *Lecture Notes in Computer Science*, pages 514–515, Bordeaux, France, August 2011. Springer.
- [MSM09] Alberto Montresor, Fabrice Saffre, and Nenad Medvidovic, editors. *3rd IEEE Int. Conference on Self-Adaptive and Self-Organizing Systems (SASO'09)*, San Francisco, CA, September 2009. IEEE Computer Society.
- [LMP08] Mark Little, Alberto Montresor, and Greg Pavlik, editors. *Proc. of the 10th Int. Symposium on Distributed Objects, Middleware, and Applications (DOA'08)*, volume 5331 of *Lecture Notes in Computer Science*, Monterrey, Mexico, November 2008. Springer.
- [EMJJ08] Dick H. J. Epema, Alberto Montresor, Márk Jelasity, and Josep Jorba. Topic 7 - Peer-to-Peer Computing. In *Euro-Par*, volume 5168 of *Lecture Notes in Computer Science*, pages 599–600, Las Palmas de Gran Canaria (Spain), August 2008. Springer.
- [HWW⁺07] Manfred Hauswirth, Adam Wierzbicki, Klaus Wherle, Alberto Montresor, and Nahid Shahmehri, editors. *Proc. of the 7th Int. Conference on Peer-to-Peer Computing (P2P'07)*. IEEE, September 2007.
- [MFEV07] Alberto Montresor, Fabrice Le Fessant, Dick H. J. Epema, and Spyros Voulgaris. Topic 7 - Peer-to-Peer Computing. In *Euro-Par*, volume 4641 of *Lecture Notes in Computer Science*, pages 477–478. Springer, August 2007.
- [MWS06] Alberto Montresor, Adam Wierzbicki, and Nahid Shahmehri, editors. *Proc. of the 6th Int. Conference on Peer-to-Peer Computing (P2P'06)*. IEEE, September 2006.
- [EM06] Frank Eliassen and Alberto Montresor, editors. *Distributed Applications and Interoperable Systems: 6th IFIP WG 6.1 Int. Conference, DAIS'06*, volume 4025 of *Lecture Notes in Computer Science*. Springer-Verlag, June 2006.
- [BJM⁺05] Ozalp Babaoglu, Márk Jelasity, Alberto Montresor, Christof Fetzer, Stefano Leonardi, Aad van Moorsel, and Maarten van Steen, editors. *Self-Star Properties in Complex Information Systems*, volume 3460 of *Lecture Notes in Computer Science, Hot Topics*. Springer-Verlag, May 2005.

2.3 Refereed articles in journals

- [GCM11] Gabriela Gheorghe, Renato Lo Cigno, and Alberto Montresor. Security and privacy issues in P2P streaming systems: A survey. *Peer-to-Peer Networking and Application*, 4(2):75–91, 2011.
- [JMvS10] Gian Paolo Jesi, Alberto Montresor, and Maarten van Steen. Secure peer sampling. *Computer Networks*, 54(13):2086–2098, June 2010.

- [GCP⁺10] Alessio Guerrieri, Jacopo Carreras, Francesco De Pellegrini, Daniele Miorandi, and Alberto Montresor. Distributed estimation of global parameters in delay-tolerant networks. *Computer Communications*, 33(13):1472–1482, August 2010.
- [JMB09] Márk Jelasity, Alberto Montresor, and Ozalp Babaoglu. T-Man: Gossip-based fast overlay topology construction. *Computer Networks*, 53(13):2321–2339, 2009.
- [MMHB08] Hein Meling, Alberto Montresor, Bjarne Helvik, and Ozalp Babaoglu. Jgroup/ARM: A distributed object group platform with autonomous replication management. *Software Prac. Exper.*, 38(9):885–923, July 2008.
- [JMB07] Gian Paolo Jesi, Alberto Montresor, and Ozalp Babaoglu. Proximity-aware superpeer overlay topologies. *IEEE Transactions on Network and Service Management*, 4(2):74–83, September 2007.
- [BCD⁺06] Ozalp Babaoglu, Geoffrey Canright, Andreas Deutsch, Gianni Di Caro, Frederick Ducatelle, Luca Gambardella, Niloy Ganguly, Márk Jelasity, Roberto Montemanni, and Alberto Montresor. Design patterns from biology for distributed computing. *ACM Transactions on Autonomous and Adaptive Systems*, 1(1):26–66, September 2006.
- [JMB05] Márk Jelasity, Alberto Montresor, and Ozalp Babaoglu. Gossip-based aggregation in large dynamic networks. *ACM Trans. Comput. Syst.*, 23(1):219–252, August 2005.
- [BMZ04] Nadia Busi, Alberto Montresor, and Gianluigi Zavattaro. Data-driven coordination in peer-to-peer information systems. *Int. Journal of Cooperative Information Systems*, 13(1):63–89, March 2004.
- [BDM01] Ozalp Babaoglu, Renzo Davoli, and Alberto Montresor. Group communication in partitionable systems: Specification and algorithms. *IEEE Transactions on Software Engineering*, 27(4):308–336, April 2001.

2.4 Invited articles in journals

- [CGJ⁺07] Paolo Costa, Vincent Gramoli, Márk Jelasity, Gian Paolo Jesi, Erwan Le Merrier, Alberto Montresor, and Leonardo Querzoni. Exploring the interdisciplinary connections of gossip-based systems. *SIGOPS Oper. Syst. Rev.*, 41(5):51–60, October 2007.
- [BJK⁺06] Ozalp Babaoglu, Márk Jelasity, Anne-Marie Kermarrec, Alberto Montresor, and Maarten van Steen. Managing clouds: A case for a fresh look at large unreliable dynamic networks. *SIGOPS Oper. Syst. Rev.*, 40(3):9–13, July 2006.

2.5 Book chapters

- [BDM00] Ozalp Babaoglu, Renzo Davoli, and Alberto Montresor. Group communication in partitionable systems: Specification and algorithms. In Sacha Krakoviak and Santosh Shirivastava, editors, *Advances in Distributed Systems*, number 1752 in Lecture Notes in Computer Science, pages 48–78. Springer-Verlag, 2000.

2.6 Refereed articles in conferences

- [MA11] Alberto Montresor and Luca Abeni. Cloudy weather for p2p, with a chance of gossip. In *Proc. of the 11th IEEE P2P Conference on Peer-to-Peer Computing (P2P'11)*, pages 250–259. IEEE, August 2011. Best paper award.
- [MMP11] Giuliano Mega, Alberto Montresor, and Gian Pietro Picco. Efficient dissemination in decentralized social networks. In *Proc. of the 11th IEEE P2P Conference on Peer-to-Peer Computing (P2P'11)*, pages 338–347. IEEE, August 2011.
- [BM10] Marco Biazzini and Alberto Montresor. Gossiping differential evolution: a decentralized heuristic for function optimization in p2p networks. In *Proc. of the 16th Int. Conference on Parallel and Distributed Systems (ICPADS'10)*, December 2010.
- [ACM10] Marco Ajelli, Renato Lo Cigno, and Alberto Montresor. Modeling botnets and epidemic malware. In *Proc. of the Int. Communications Conference (ICC'10)*, May 2010.
- [AM09] Luca Abeni and Alberto Montresor. Scheduling in p2p streaming: From algorithms to protocols. In Thrasyvoulos Spyropoulos and Karin Anna Hummel, editors, *Proc. of the 4th IFIP Int. Workshop on Self-Organizing Systems (IW-SOS'09)*, volume 5918 of *Lecture Notes in Computer Science*, pages 201–206, Zurich, Switzerland, December 2009. Springer.
- [MJ09] Alberto Montresor and Márk Jelasity. Peersim: A scalable p2p simulator. In *Proc. of the 9th Int. Conference on Peer-to-Peer (P2P'09)*, pages 99–100, Seattle, WA, September 2009.
- [MG09] Alberto Montresor and Ali Ghodsi. Towards robust peer counting. In *Proc. of the 9th Int. Conference on Peer-to-Peer (P2P'09)*, pages 143–146, Seattle, WA, September 2009.
- [BBMJ09] Marco Biazzini, Balázs Bánhelyi, Alberto Montresor, and Márk Jelasity. Distributed hyper-heuristics for real parameter optimization. In *Proc. of the 11th Genetic and Evolutionary Computation Conference (GECCO'09)*, pages 1339–1346, Montreal, Québec, Canada, July 2009.
- [JM09] Gian Paolo Jesi and Alberto Montresor. Secure peer sampling service: the mosquito attack. In *Proc. of the 5th WETICE Workshop on Collaborative Peer-to-Peer Systems (COPS'09)*, Groningen, The Netherlands, July 2009.
- [MM09] Hein Meling and Alberto Montresor. Type-safe dynamic protocol composition in jgroup/arm. In *Proc. of the 3rd Int. DiscCoTec Workshop on Middleware-Application Interaction (MAI'09)*, pages 1–6, New York, NY, USA, June 2009. ACM.
- [GMC⁺09] Alessio Guerrieri, Alberto Montresor, Iacopo Carreras, Francesco De Pellegrini, and Daniele Miorandi. Distributed estimation of global parameters in delay-tolerant networks. In *Proc. of the 3rd IEEE WoWMoM Workshop on Autonomous and Opportunistic Communications (AOC'09)*, Kos, Greece, June 2009.
- [BBMJ09] Balázs Bánhelyi, Marco Biazzini, Alberto Montresor, and Márk Jelasity. Peer-to-peer optimization in large unreliable networks with branch-and-bound and particle swarms. In *Applications of Evolutionary Computing*, Lecture Notes in Computer Science, pages 87–92. Springer, jul 2009. An extended version of the paper can be found [here](#).

- [MJB08] Alberto Montresor, Márk Jelasity, and Ozalp Babaoglu. Decentralized ranking in large-scale overlay networks. In *Proc. of the 1st IEEE Selfman SASO Workshop*, pages 208–213, Isola di San Servolo, Venice, Italy, November 2008. An extended version of the paper can be found [here](#).
- [Mon08a] Alberto Montresor. Intelligent gossip. In *2nd Int. Symposium on Intelligent Distributed Computing (IDC'08)*, Catania, Italy, September 2008. Invited paper.
- [Mon08b] Alberto Montresor. Decentralized network analysis: a proposal. In *4th WET-ICE Workshop on Collaborative Peer-to-Peer Systems (COPS'08)*, Rome, Italy, June 2008. Invited paper.
- [BMB08] Marco Biazzini, Alberto Montresor, and Mauro Brunato. Towards a decentralized architecture for optimization. In *Proc. of the 22nd IEEE Int. Parallel and Distributed Processing Symposium (IPDPS'08)*, Miami, FL, USA, April 2008.
- [MZ08] Alberto Montresor and Roberto Zandonati. Absolute slicing in peer-to-peer systems. In *Proc. of the 5th Int. Workshop on Hot Topics in Peer-to-Peer Systems (HotP2P'08)*, Miami, FL, USA, April 2008.
- [BBJM07] Ozalp Babaoglu, Toni Binci, Márk Jelasity, and Alberto Montresor. Firefly-inspired heartbeat synchronization in overlay networks. In *Proc. of the First IEEE Int. Conference on Self-Adaptive and Self-Organizing Systems (SASO'07)*, Boston, MA, USA, July 2007.
- [JMB06a] Márk Jelasity, Alberto Montresor, and Ozalp Babaoglu. The bootstrapping service. In *Proc. of Int. ICDCS Workshop on Dynamic Distributed Systems (ICDCS-IWDDS'06)*, Lisboa, Portugal, July 2006. IEEE Computer Society.
- [JMB06b] Gian Paolo Jesi, Alberto Montresor, and Ozalp Babaoglu. Proximity-aware superpeer overlay topologies. In *Proc. of SelfMan'06*, volume 3996 of *Lecture Notes in Computer Science*, pages 43–57, Dublin, Ireland, June 2006. Springer-Verlag. **Best paper award.**
- [BCD⁺05] Ozalp Babaoglu, Geoffrey Canright, Andreas Deutsch, Gianni Di Caro, Frederick Ducatelle, Luca Gambardella, Niloy Ganguly, Márk Jelasity, Roberto Montemanni, and Alberto Montresor. Design patterns from biology for distributed computing. In *Proc. of the European Conference on Complex Systems*, Paris, France, November 2005.
- [MJB05] Alberto Montresor, Márk Jelasity, and Ozalp Babaoglu. Chord on demand. In *Proc. of the 5th Int. Conference on Peer-to-Peer Computing (P2P'05)*, pages 87–94, Konstanz, Germany, August 2005. IEEE.
- [HMM05] Bjarne Helvik, Hein Meling, and Alberto Montresor. An approach to experimentally obtain service dependability characteristics of the Jgroup/ARM system. In *Proc. of the 5th European Dependable Computing Conference (EDCC'05)*, Budapest, Hungary, April 2005.
- [Mon04] Alberto Montresor. A robust protocol for building superpeer overlay topologies. In *Proc. of the 4th Int. Conference on Peer-to-Peer Computing*, pages 202–209, Zurich, Switzerland, August 2004. IEEE.
- [MJB04] Alberto Montresor, Márk Jelasity, and Ozalp Babaoglu. Robust aggregation protocols for large-scale overlay networks. In *Proc. of the 2004 Int. Conference on Dependable Systems and Networks (DSN'04)*, pages 19–28, Florence, Italy, June 2004. IEEE Computer Society.

- [JMB04] Márk Jelasity, Alberto Montresor, and Ozalp Babaoglu. A modular paradigm for building self-organizing peer-to-peer applications. In *Engineering Self-Organising Systems: Nature-Inspired Approaches to Software Engineering*, number 2977 in Lecture Notes in Artificial Intelligence, pages 265–282. Springer-Verlag, April 2004.
- [JM04] Márk Jelasity and Alberto Montresor. Epidemic-style proactive aggregation in large overlay networks. In *Proc. of the 24th Int. Conference on Distributed Computing Systems (ICDCS'04)*, pages 102–109, Tokyo, Japan, March 2004. IEEE Computer Society.
- [MMB03] Alberto Montresor, Hein Meling, and Ozalp Baboglu. Messor: Load-balancing through a swarm of autonomous agents. In *Procc. of the 1st Workshop on Agent and Peer-to-Peer Systems (AP2PC'02)*, number 2530 in Lecture Notes in Artificial Intelligence, pages 125–137, Bologna, Italy, July 2003. Springer-Verlag.
- [BMMZ03] Nadia Busi, Cristian Manfredini, Alberto Montresor, and Gianluigi Zavattaro. PeerSpaces: Data-driven coordination in peer-to-peer networks. In *Proc. of the 18th Symposium on Applied Computing (SAC'03)*, pages 380–386, Melbourne, Florida, March 2003.
- [BCP⁺03] Alberto Bartoli, Cosimo Calabrese, Milan Prica, Etienne Antoniutti Di Muro, and Alberto Montresor. Adaptive message packing for group communication systems. In *Proc. of the Workshop on Reliable and Secure Middleware (WRSM'03)*, number 2889 in Lecture Notes in Computer Science, pages 912–925. Springer-Verlag, 2003.
- [MMB02] Alberto Montresor, Hein Meling, and Ozalp Babaoglu. Towards adaptive, resilient and self-organizing peer-to-peer systems. In *Web Engineering and Peer-to-Peer*, number 2376 in Lecture Notes in Computer Science, pages 300–305. Springer-Verlag, 2002.
- [BMMZ02] Nadia Busi, Cristian Manfredini, Alberto Montresor, and Gianluigi Zavattaro. Towards a Data-Driven Coordination Infrastructure for Peer-to-Peer Systems. In *Web Engineering and Peer-to-Peer*, number 2376 in Lecture Notes in Computer Science, pages 295–299. Springer-Verlag, 2002.
- [BMM02] Ozalp Babaoglu, Hein Meling, and Alberto Montresor. Anthill: A framework for the development of agent-based peer-to-peer systems. In *Proc. of the 22th Int. Conference on Distributed Computing Systems (ICDCS'02)*, Vienna, Austria, July 2002.
- [Mon99] Alberto Montresor. The jgroup reliable distributed object model. In *Proc. of the 2nd IFIP Int. Working Conference on Distributed Applications and Interoperable Systems (DAIS'99)*, pages 389–402, Helsinki, Finland, June 1999. Kluwer.
- [BDMS98] Ozalp Babaoglu, Renzo Davoli, Alberto Montresor, and Roberto Segala. System support for partition-aware network applications. In *Proc. of the 18th Int. Conference on Distributed Computing Systems (ICDCS'98)*, pages 184–191, Amsterdam, The Netherlands, May 1998.

2.7 Publications in other research areas

- [BSM⁺01] M.G. Braioni, G. Salmoiraghi, A. Montresor, G. Penna, and P.F. DeFranceschi. The banks quality in the monitoring and restoring of the watercourses. *Atti Associazione Italiana Oceanologia Limnologia*, 14:77–88, 2001.
- [BM00] M.G. Braioni and A. Montresor. Qualità delle rive nel monitoraggio e nel ripristino dei corsi d’acqua (abstract). In *Atti XIV Congresso Nazionale Associazione Italiana di Oceanografia e Limnologia*, Garda (VR), Italy, 2000.
- [BBG⁺00] M.G. Braioni, A. Braioni, L. Girelli, M. Masconale, M. Francescon, and A. Montresor. Analisi territoriale e cartografia tematica nel monitoraggio a rischio ambientale. informazione geografica : innovazione e formazione. In *Atti IV Conferenza Nazionale ASITA*, pages 287–289, Genova, Italy, October 2000.
- [MAF⁺94] M.G. Braioni, A. Braioni, P. De Franceschi, F. Mason, S. Ruffo, B. Sambugar, P. Modena, M. Tessari, and A. Montresor. Indices for assessing river bank quality: the case of the river adige (north-east italy). In *Proc. of the International Workshop on the Ecology and Management of Aquatic-Terrestrial Ecotones*, pages 287–289, Seattle, WA, USA, 1994.

2.8 Theses

- [Mon00] Alberto Montresor. *System Support for the Development of Object-Oriented Distributed Applications in Partitionable Systems*. PhD thesis, Università di Bologna, Italy, February 2000.
- [Mon95] Alberto Montresor. Specifica dei requisiti minimi del reachability susceptor per la soluzione del problema di view synchronous communication. Master’s thesis, Università di Bologna, Italy, July 1995.

2.9 Software

Peersim is a simulator for peer-to-peer protocols, developed in Java starting in 2003, in cooperation with Mark Jelasity (Hungarian Academy of Science and University of Szeged). It has been downloaded more than 20.000 times and used in more than 160 scientific papers (January 2012).

2.10 Publication records

H-index: 25, G-index: 51, Citations: 2700+ (Google Scholar January 2012)

3 Teaching

3.1 Coordination activities

2006-2009 Coordinator of the Computer Science Degree Committee (Consiglio d’Area Didattica in Informatica), Faculty of Science, University of Trento.

2007-2012 Coordinator of the ATLAS Project - Double Degree in Computer Science in Cooperation with Georgia Institute of Technology, Technischen Universität München

3.2 Courses

2008, 2010 “P2P Systems”, Doctorate School in ICT, Università di Trento (in collaboration with Renato Lo Cigno)

- 2006-** “Distributed Systems”, C.d.L. Magistrale in Informatica, Università di Trento.
- 2005-** “Algoritmi e Strutture Dati”, C.d.L. in Informatica, Università di Trento.
- 2002-2005** “Sistemi Operativi MZ”, C.d.L. in Informatica, Università di Bologna.
- 2002-2005** “Laboratorio di Sistemi Operativi MZ”, C.d.L. in Informatica, Università di Bologna.
- 2003-2005** “Laboratorio di Elementi di Informatica AL”, C.d.L. in Biotecnologie, Università di Bologna.

3.3 Master

- 2003-2005** “Sicurezza nei Sistemi Operativi”, Master Almaweb in Sicurezza dei Sistemi Informativi.
- 2001-2005** “Tecnologie e Servizi Internet / Programmazione Web” (Laboratory Course), Master Almaweb in Comunicazione e Tecnologie della Comunicazione / Tecnologie Web per le Imprese.

3.4 Teaching assistantship

- 2001-2002** “Laboratorio di Sistemi Operativi”, C.d.L. in Informatica, Università di Bologna.
- 2000-2002** “Architetture degli Elaboratori”, C.d.L. in Informatica, Università di Bologna.
- 2000-2005** “Sistemi Complessi Adattivi”, C.d.L. in Informatica, Università di Bologna.
- 2001** “Laboratorio di Sistemi Operativi”, C.d.L. in Informatica, Università di Bologna.
- 1997-1999** “Sistemi 1”, C.d.L. in Informatica, Università di Bologna.

3.5 E-learning

- 2003-2004** “Sistemi Operativi”, Progetto A3 (Ambiente Accessibile d’Apprendimento), Università di Bologna.

4 Professional activities

4.1 University Committes

- 2010-2012** Member of the Evaluation Group of the University of Trento.

4.2 Editorial Board

- 2011-** Associate Editor, Springer Computing Journal.

4.3 Special Issues

- 2012** Extreme Distributed Systems, Springer Computing Journal.

4.4 Steering committee member

- 2007-2009** Int. Conference on Distributed Systems and Interoperable Applications (DAIS).
2007- Int. Conference on P2P Computing (P2P). Since October 2010, steering committee chair.

4.5 General chair

- 2007** 7th Int. Conference on Peer-to-Peer Computing ([P2P'07](#)).

4.6 Programm committee chair

- 2012** Peer-to-Peer Computing Topic, [EuroPar 2012](#), Chair.
2011 Peer-to-Peer Computing Topic, [EuroPar 2011](#), Vice Chair.
2009 3rd Int. Conference on Self-Adaptive and Self-Organizing Systems ([SASO'09](#)), Program Co-Chair.
2008 Distributed Objects, Middleware, and Applications (DOA'08), Program Co-Chair.
2008 Peer-to-Peer Computing Topic, [EuroPar 2008](#), Vice Chair.
2007 Peer-to-Peer Computing Topic, [EuroPar 2007](#), Global Chair.
2006 6th Int. Conference on Peer-to-Peer Computing ([P2P'06](#)), Program Co-Chair.
2006 6th Int. Conference on Distributed Systems and Interoperable Applications ([DAIS'06](#)), Program Co-Chair.
2004 Int. Workshop on Self-* Properties in Complex Information Systems ([SelfStar'04](#)), Program Co-Chair.

4.7 Finance chair

- 2008** 2nd Int. Conference on Self-Adaptive and Self-Organizing Systems ([SASO'08](#)), Isola di San Servolo (Venice), Italy.

4.8 Organization

- 2002-2004** Bertinoro Int. Summer School, Bertinoro (Forlì), Italy
2002 7th Cabernet Radicals Workshop, Bertinoro (Forlì), Italy.
2002 1st Int. Workshop on Future Directions in Distributed Computing, Bertinoro (Forlì), Italy.
2001 4th European Research Seminar on Advances in Distributed Computing Systems (ERSADS'01), Bertinoro (Forlì), Italy,
1996 10th Int. Workshop on Distributed Algorithms (WDAG'96), Bologna, Italy.

4.9 Program committee member

P2P'12, EDCC'12, MSOP2P'12, OPODIS'11, SCS'11, P2P'11, SASO'11, SCS'11, MSOP2P'11, COMSWARE'11, SASO'10, P2P'10, DAIS'10, EDCC'10, HICCS'10, Hot-P2P'10, SCS'10, COPS'09, DAIS'09, AP2PC'09, Hot-P2P'09, SOPDS'09, HICCS'09, ComP2P'08, P2P'08, DBISP2P'08, SASO'08, ATC'08, AP2PC'08, SOPDS'08, ASSESS'08, PPN'07, EEDAS'07, Autonomics'07, SASO'07, DBIP2P'07, PPN'07, Coordination'07, DAIS'07, AP2PC'07, AP2PC'06, ATC'06, ESOA'06, I2CS'06, STD3S'06, DBISP2P'06, Bio-Adit'06, P2P'05, StoDis'05, AAMAS'05, AP2PC'05, ESOA'05, SIC'05, DBISP2P'05, IAT'05, Self-* 2004, P2PKM'04, AP2PC'04, P2P'04, IAT'04, DBISP2P'04, Bio-Adit'04, P2P'03, AP2PC'03, DBISP2P'03,

4.10 Journal review activities

ACM Computing Survey, IEEE Transactions on Parallel and Distributed Systems, IEEE Transactions on Computers, IEEE Transactions on Knowledge Engineering, IEEE Transactions on Network and Service Management, IEEE Transactions on Dependable and Secure Computing, IEEE Transactions on Autonomous and Adaptive Systems, IEEE Transactions on Systems, Man, and Cybernetics, IEEE Journal on Selected Areas in Communications, IEEE Internet Computing, Elsevier Journal of Parallel and Distributed Computing, Elsevier Distributed Computing, Elsevier Computer Networks, Elsevier Journal of Network and Computer Applications, Springer Swarm Intelligence. Springer Peer-to-Peer Networking and Applications, Wiley Concurrency and Computation: Practice and Experience, Oxford Computer Journal, IOP Distributed Systems Engineering,

4.11 Project review activities

- 2010** External reviewer, ERC Advanced Grant 3rd Call - 2010.
- 2009,2010** External reviewer, Nanyang Technological University, Singapore.
- 2006** External reviewer, Nordunet3 Research Programme in network research.
- 2004** External reviewer, Swedish Research Council.

4.12 External Ph.D. Examiner

- 2011** Amir Payberah, invited by Seif Haridi, KTH, Sweden.
- 2011** Rameez Rahman, invited by Henk Sips, Delft University of Technology, The Netherlands
- 2010** Kovendhan Ponnaivaikko, invited by J. Dharanipragada, IIT Madras, India.
- 2009** Bartosz Biskupski, invited by Renè Meier, Trinity College, Dublin, Ireland.
- 2009** Marc Sanchez, invited by Pedro Garcia Lopez, Univ. Pompeu Fabra, Spain.
- 2008** Roman Schmidt, invited by Karl Aberer, EPFL, Switzerland.

5 Grants

5.1 Project coordination

- 2012** EIT EUROPA Activity. Sponsored with 32.000 Euro by EIT.

- 2010-2012** Autonomic Security. Sponsored with 201.000 Euro by the PRIN 2008 Programme (Programmi di Ricerca Scientifica di Rilevante Interesse Nazionale). National coordinator.
- 2007-2011** ATLAS - Atlantic Masters in Electrical-computer Engineering and Computer Science. Sponsored with 408.000 Euro by the 2007 ATLANTIS Programme: Actions for Transatlantic Links and Academic Networks in Training and Integrated Studies (EAC/06/07). Project coordinator. <http://atlas.disi.unitn.it/>
- 2008** “Gossip-based Strategies in Global Optimization”. Sponsored with 29.000 Euro by ESA - ARIADNA 07/5201 Call. Local unit coordinator.

5.2 Project participant

- 2008-2010** Napa-wine – Network-Aware P2P-TV Application over Wise Networks - Contract no. FP7-214412, <http://www.napa-wine.eu>.
- 2006-2008** Cascadas – Component-ware for Autonomic Situation-aware Communications, and Dynamically Adaptable Services - Contract No. FP6–027807. <http://www.cascadas-project.org/>.
- 2006-2008** Bionets - BIOlogically inspired NETwork and Services - Contract No. FP6-027748. <http://www.bionets.eu/>.
- 2003-2005** BISON - Biology-Inspired techniques for Self-Organization in dynamic Networks - Contract No. IST-2001-38923. <http://www.cs.unibo.it/bison/>. Work-package leader, coordination committee member.
- 2002-2005** ADAPT - Middleware Technologies for Adaptive and Composable Distributed Components - Contract No. IST-2001-37126. <http://adapt.ls.fi.upm.es/adapt.htm>.
- 1996-2004** CABERNET - Network of Excellence in Distributed and Dependable Distributed Computing Systems - Contract No. IST-2000-25088. <http://www.newcastle.research.ec.org/cabernet/index.html>
- 1996-1999** BROADCAST-WG - Basic Research On Advanced Distributed Computing: from Algorithms to SysTems - ESPRIT Basic Research Working Group 22455

6 Keynote Speaker

- 2012** “TBD”. Comparch 2012, Bertinoro, Italy.
- 2010** “Cloudy Weather for P2P, with a Chance of Gossip”. Brazilian Symposium on Computer Networks and Distributed Systems (SBRC), Gramado, Brasil, 2010.
- 2008** “Intelligent Gossip”. 2nd International Symposium on Intelligent Distributed Computing (IDC 2008), Catania, Italy.

7 Invited talks, seminars and tutorials

- 2010** “Cloudy Weather for P2P, with a Chance of Gossip”. International Workshop on Distributed Systems (IWDS). November 2010, IIT-Kanpur, India
- 2009** “Gossiping in P2P networks”. International Workshop on Distributed Systems (IWDS). December 2009, IIT-Madras, India
- 2006** “The Bootstrapping Service”. EPFL, Switzerland. Invited Seminar.
- 2005** “The Peer-to-Peer Paradigm”, GARR’05 Conference “La rete daPERtutto”, Pisa, Italy. Tutorial.
- 2004** “Computing Aggregate Functions on Large-Scale Distributed Systems”. Università di Trento, Italy. Invited seminar.
- 2004** “Computing Aggregate Functions on Large-Scale Distributed Systems”. Università di Verona, Italy. Invited seminar.
- 2003** “The Bison Project”, 1st COE Symposium on Networked Information System, Osaka, Japan. Invited talk.
- 2002** “The Jgroup Project”, University of Trondheim, Norway. Invited seminar.
- 2001** “The Jgroup Project”, Università di Roma, Italy. Invited seminar.
- 2001** “Experience with Reliable Group Communication”, ICDCS Workshop on Reliable Group Communication, Mesa, AZ. Panelist.
- 2000** Sun Laboratory at Burlington, MA. Research visit.
- 1999** Sun Laboratory at Aspen, CO, and Burlington, MA. Research visit
- 1999** “The Jgroup Distributed Object Model”. Dept. of Computer Science, University of Cambridge, UK. Invited seminar.

8 Other Professional Activities

- 2002** Scientific editing of “Quattro.Zero”, by Federico Tibone; Appendix “Quattro.Zero Materiali per l’insegnante”. Zanichelli Editore (Bologna, Italy)
- 2002** Scientific editing of “A Portata di Mouse”, by Federico Tibone; realization of the Appendix “A Portata di Mouse Materiali per l’insegnante”. Zanichelli Editore (Bologna, Italy)
- 2001** Scientific editing of “Computer Multimediale” by G. Russo, J. Jamrich-Parsons and D. Oja, “Scrivere e comunicare con il computer” by G. Russo, M.L. Swangson, D.I. Barker and C.L.H. Barker. Zanichelli Editore (Bologna, Italy).
- 2000-2002** Teaching activity for Sun Microsystems Italia (Java, Java RMI, Servlet, Enterprise JavaBeans, Java security).
- 2000** Teaching activity for NCH (Network Computer House, Bologna, Italy), financed by the European Community (Computer Science fundamentals, computer architectures, operating systems, networks, security and programming).
- 2000-2002** Software design and implementation for landscape analysis. Dipartimento di Biologia dell’Università di Padova.

- 1998** Scientific editing of the translation of “Computer Networks” by L. Peterson e B. Davie. Norma Srl (Parma, Italy) and Zanichelli Editore (Bologna, Italy).
- 1996-1997** Translation from English to Italian of “Computer Networks” (chapter 5,6), by Andrew S. Tanenbaum. Società UTET Libreria S.r.l.
- 1996** Software design and implementation for timetables scheduling. Università di Venezia “Cà Foscari”.
- 1992-2001** Software design and implementation for river bank analysis. Provincia di Verona, Regione Veneto and Dipartimento di Biologia, Università di Padova.
- 1991** Software design and implementation for text analysis. Università di Venezia “Cà Foscari”.