

Curriculum Vitae et Studiorum

Alberto Montresor

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1 Introduzione

1.1 Posizione attuale

2020- Professore ordinario – settore INF-01 – Dip. di Ingegneria e Scienza dell'Informazione della Università di Trento.

1.2 Esperienze accademiche

2005-2020 Professore Associata per il settore disciplinare INF/01 presso il Dip. di Ingegneria e Scienza dell'Informazione dell'Università di Trento.

2002-2005 Ricercatore per il settore disciplinare INF/01 presso il Dip. di Scienze dell'Informazione dell'Università di Bologna.

2002 Titolare di un contratto di collaborazione presso l'Università di Bologna, finanziato dal progetto europeo ADAPT.

2000-2002 Titolare di un assegno di ricerca presso l'Università di Bologna, finanziato in parte dal Ministero dell'Università e della Ricerca Scientifica e in parte da Sun Microsystems.

1998 Visiting researcher presso il Dip. di Informatica dell'Università di Twente (Enschede, Olanda), su invito del prof. Sape Mullender.

1.3 Titoli

2018 Abilitazione Scientifica Nazionale, settore concorsuale 09/H1, Prima fascia

2014 Abilitazione Scientifica Nazionale, settore concorsuale 01/B1, Prima fascia

1995-2000 Dottorato in Informatica presso l'Università di Bologna.

1990-1995 Laurea in Scienze dell'Informazione presso l'Università di Bologna, con la votazione 110/110 e lode.

1985-1990 Maturità Scientifica presso il Liceo Scientifico G. Fracastoro di Verona, con il punteggio 58/60.

2 Pubblicazioni

Libri

- [1] Alan Bertossi and Alberto Montresor. *Algoritmi e strutture di dati - 3^a Ed.* Città Studi Edizioni, Torino, 2014.

Atti di convegni, edizione

- [1] Alberto Montresor and Pedro Garcia Lopez, editors. *Proc. of the First Workshop on Edge Computing*. IEEE, June 2016.
- [2] Alberto Montresor, Evaggelia Pitoura, Anwitaman Datta, and Spyros Voulgaris. Topic 7: Peer to peer computing. In *Proc. of the 18th Int. Conference on Parallel Processing*, volume 7484 of *EuroPar'12*, page 363. Springer, August 2012.
- [3] Pascal Felber, Olivier Beaumont, Alberto Montresor, and Amitabha Bagchi. Topic 7 - Peer-to-Peer Computing. In *Proc. of the 17th Int. Conference on Parallel Processing*, volume 6852 of *EuroPar'11*, pages 514–515, Bordeaux, France, August 2011. Springer.
- [4] 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.
- [5] 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.
- [6] Dick H. J. Epema, Alberto Montresor, Márk Jelasity, and Josep Jorba. Topic 7 - Peer-to-Peer Computing. In *Proc. of the 14th Int. Conference on Parallel Processing*, EuroPar'08, pages 599–600, Las Palmas de Gran Canaria (Spain), August 2008. Springer.
- [7] 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.
- [8] Alberto Montresor, Fabrice Le Fessant, Dick H. J. Epema, and Spyros Voulgaris. Topic 7 - Peer-to-Peer Computing. In *Proc. of the 13th Int. Conference on Parallel Processing*, EuroPar'07, pages 477–478. Springer, August 2007.
- [9] Alberto Montresor, Adam Wierzbicki, and Nahid Shahmehri, editors. *Proc. of the 6th Int. Conference on Peer-to-Peer Computing (P2P'06)*. IEEE, September 2006.
- [10] 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.
- [11] 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.

Articoli su rivista con referee

- [1] Simi Surendran, Maneesha Vinodini Ramesh, Martin J. Montag, and Alberto Montresor. Modelling communication capability and node reorientation in offshore communication network. *Computers & Electrical Engineering*, 87, 2020.
- [2] Cristian Consonni, David Laniado, and Alberto Montresor. Cyclorank, or there and back again: Personalized relevance scores from cyclic paths on directed graphs. *Philosophical Transactions of the Royal Society of London. Series A, Mathematical and Physical Sciences*, 476(2241), September 2020.

- [3] Leonardo Maccari, Lorenzo Ghio, Alessio Guerrieri, Alberto Montresor, and Renato Lo Cigno. Exact distributed load centrality computation: Algorithms, convergence, and applications to distance vector routing. *IEEE Trans. Parallel Distrib. Syst.*, 31(7):1693–1706, 2020.
- [4] Giuliano Mega, Alberto Montresor, and Gian Pietro Picco. Social overlays meet the cloud: A hybrid architecture for profile dissemination in decentralized social networks. *IEEE Transactions on Network Science and Engineering*, 6(4):613–627, Oct 2019.
- [5] Nasrullah Sheikh, Zekarias Kefato, and Alberto Montresor. GAT2VEC: Representation learning for attributed graphs. *Computing*, 101(3):187–209, 2019.
- [6] Alberto Montresor. Gossip and epidemic protocol. *Wiley Encyclopedia of Electrical and Electronics Engineering*, 1, 2017.
- [7] Yannis Velegrakis Sabeur Aridhi, Alberto Montresor. BLADYG: A graph processing framework for large dynamic graphs. *Big Data Research*, 9:9–17, 2017.
- [8] Weverton Luis da Costa Cordeiro, Flavio Roberto Santos, Marinho Pilla Barcelos, Luciano Paschoal Gaspary, Hanna Kavalionak, Alessio Guerrieri, and Alberto Montresor. Making puzzles green and useful for adaptive identity management in large-scale distributed systems. *Computer Networks*, 95:97 – 114, 2016.
- [9] Pedro Garcia Lopez, Alberto Montresor, Dick Epema, Anwitaman Datta, Teruo Higashino, Adriana Iamnitchi, Marinho Barcellos, Pascal Felber, and Etienne Riviere. Edge-centric computing: Vision and challenges. *SIGCOMM Comput. Commun. Rev.*, 45(5):37–42, September 2015.
- [10] Hanna Kavalionak, Emanuele Carlini, Laura Ricci, Alberto Montresor, and Massimo Coppola. Integrating peer-to-peer and cloud computing for massively multiuser online games. *Peer-to-Peer Networking and Application*, 8(2):301–319, 2015.
- [11] Alberto Montresor, Francesco de Pellegrini, and Daniele Miorandi. Distributed k -core decomposition. *IEEE Trans. Parallel Distrib. Syst.*, 24(2):288–300, 2013.
- [12] Jan Sacha and Alberto Montresor. Identifying frequent items in distributed data sets. *Computing*, 95(4):289–307, 2013.
- [13] Marco Biazzini and Alberto Montresor. P2POEM: Function optimization in p2p networks. *Peer-to-Peer Networking and Application*, 6(2):213–232, 2013.
- [14] Alberto Montresor, Gusztai Eiben, and Maarten van Steen. Extreme distributed systems: from large scale to complexity. *Computing*, 94(8–10):619–620, 2012.
- [15] 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.
- [16] Gian Paolo Jesi, Alberto Montresor, and Maarten van Steen. Secure peer sampling. *Computer Networks*, 54(13):2086–2098, June 2010.
- [17] Alessio Guerrieri, Iacopo 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.
- [18] Márk Jelasity, Alberto Montresor, and Ozalp Babaoglu. T-Man: Gossip-based fast overlay topology construction. *Computer Networks*, 53(13):2321–2339, 2009.
- [19] 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.
- [20] 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.

- [21] 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.
- [22] Márk Jelasity, Alberto Montresor, and Ozalp Babaoglu. Gossip-based aggregation in large dynamic networks. *ACM Trans. Comput. Syst.*, 23(1):219–252, August 2005.
- [23] 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.
- [24] 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.

Articoli invitati su rivista

- [1] Paolo Costa, Vincent Gramoli, Márk Jelasity, Gian Paolo Jesi, Erwan Le Merrer, Alberto Montresor, and Leonardo Querzoni. Exploring the interdisciplinary connections of gossip-based systems. *SIGOPS Oper. Syst. Rev.*, 41(5):51–60, October 2007.
- [2] 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.

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Articoli in atti di convegno

- [1] Quintino Francesco Lotito and Alberto Montresor. Efficient algorithms to mine maximal span-trusses from temporal graphs. In *Proceedings of the 16th Int. Workshop on Mining and Learning With Graphs*, MLG’20. ACM, August 2020.
- [2] Massimiliano Luca, Alberto Montresor, Carlo Caprini, and Daniele Miorandi. An architecture-independent data model for managing information generated by human-chatbot interactions. In *Proceedings of the 8th Int. Conference on Model-Driven Engineering and Software Development*, MODELSWARD, pages 344–351. SCITEPRESS, 2020.
- [3] Andrea Zanotto, Nicola Conci, and Alberto Montresor. Blockchain-grade privacy protection in surveillance systems. In *Proceedings of the 13th Int. Conference on Distributed Smart Cameras, ICDSC 2019*. ACM, December 2019.
- [4] Nasrullah Sheikh, Zekarias T. Kefato, and Alberto Montresor. A simple approach to attributed graph embedding via enhanced autoencoder. In *Proceedings of the Eighth Int. Conference on Complex Networks and Their Applications (COMPLEX NETWORKS 2019)*, volume 881 of *Studies in Computational Intelligence*, pages 797–809. Springer, December 2019.
- [5] Lorenzo Angeli, Milena Stoycheva, Francesca Fiore, Alberto Montresor, and Maurizio Marchese. A conceptual exploration in the intersection of crafts, technology and academia for sustainable job and skills development in the 21th century. In *Proceedings of the 11th Int. Conference on Education and New Learning Technologies (EduLearn)*, pages 5:1–5:3. IATED, July 2019.
- [6] Lorenzo Angeli, Francesca Fiore, Alberto Montresor, and Maurizio Marchese. Designing a hands-on learning space for the new generation. In *Proceedings of the FabLearn Europe 2019 Conference*. Association for Computing Machinery, May 2019.

- [7] Cristian Consonni, David Laniado, and Alberto Montresor. Discovering topical contexts from links in Wikipedia. In *Proc. of the Wiki Workshop 2019*, May 2019.
- [8] Cristian Consonni, David Laniado, and Alberto Montresor. WikiLinkGraphs: A complete, longitudinal and multi-language dataset of the Wikipedia link networks. In *Proc. of the 13th Int. AAAI Conference on Web and Social Media*, ICWSM’19, pages 598–607. AAAI Press, June 2019.
- [9] Cristian Consonni, Paolo Sottovia, Alberto Montresor, and Yannis Velegrakis. Discovering order dependencies through order compatibility. In *Proc. of 22nd Int. Conference on Extending Database Technology*, EDBT’19, pages 409–420, 2019.
- [10] Pedro García López, Alberto Montresor, and Anwitaman Datta. Please, do not decentralize the Internet with (permissionless) blockchains! In *Proc. of the 39th Int. Conference on Distributed Computing Systems*, ICDCS’19, 2019.
- [11] Luca Forlizzi, Michael Lodi, Violetta Lonati, Claudio Mirolo, Mattia Monga, Alberto Montresor, Anna Morpurgo, and Enrico Nardelli. A core informatics curriculum for italian compulsory education. In *Proc. of 11th Int. Conference on Informatics in Schools: Situation, Evolution, and Perspectives (ISSEP’18)*, volume 11169 of *Lecture Notes in Computer Science*, pages 141–153. Springer, 2018.
- [12] Zekarias T. Kefato, Nasrullah Sheikh, Leila Bahri, Amira Soliman, Alberto Montresor, and Sarunas Girdzijauskas. CAS2VEC: network-agnostic cascade prediction in online social networks. In *Proc. of the 5th Int. Conference on Social Networks Analysis, Management and Security (SNAMS 2018)*, pages 72–79. IEEE, October 2018. Best paper award.
- [13] Nasrullah Sheikh, Zekarias T. Kefato, and Alberto Montresor. Semi-supervised heterogeneous information network embedding for node classification using 1D-CNN. In *Proc. of the 5th Int. Conference on Social Networks Analysis, Management and Security (SNAMS 2018)*, pages 177–181. IEEE, October 2018.
- [14] Zekarias T. Kefato, Nasrullah Sheikh, and Alberto Montresor. REFINE: Representation learning from diffusion events. In *Proc. of the 4th Conference on Machine Learning, Optimization and Data science*, LOD’18. Springer, September 2018.
- [15] Leonardo Maccari, Lorenzo Ghio, Alessio Guerrieri, Alberto Montresor, and Renato Lo Cigno. On the distributed computation of load centrality and its application to DV routing. In *Proc. of the IEEE Int. Conference on Computer Communications*, INFOCOM’18. IEEE, April 2018.
- [16] Zekarias T. Kefato, Nasrullah Sheikh, and Alberto Montresor. Mineral: Multi-modal network representation learning. In *Proc. of the 3rd Int. Conference on Machine Learning, Optimization and Big Data*, MOD’17. ACM, September 2017.
- [17] Zekarias T. Kefato, Nasrullah Sheikh, and Alberto Montresor. Deepinfer: Diffusion network inference through representation learning. In *Proc. of the 13th Int. Workshop on Mining and Learning With Graphs*, MLG’17. ACM, August 2017.
- [18] Zekarias T. Kefato and Alberto Montresor. Personalized influencer detection: Topic and exposure-conformity aware. In *Proc. of the Int. Workshop on Mining Actionable Insights from Social Networks*, MAISoN’17. ACM, February 2017.
- [19] Pedro García López, Raúl Gracia Tinedo, and Alberto Montresor. Towards data-driven software-defined infrastructures. In *2nd Int. Conference on Cloud Forward: From Distributed to Complete Computing*, volume 97 of *Procedia Computer Science*, pages 144–147, Madrid, Spain, October 2016. Elsevier.
- [20] Chayma Sakouhi, Sabeur Aridhi, Alessio Guerrieri, Salma Sassi, and Alberto Montresor. DynamicDFEP: A distributed edge partitioning approach for large dynamic graphs. In *Proceedings of the 20th Int. Database Engineering & Applications Symposium*, IDEAS’16, Montreal, Canada, July 2016. ACM.
- [21] Alessio Guerrieri, Alberto Montresor, and Simone Centellegher. ETSCH: Partition-centric graph processing. In *Proc. of the 1st Int. Conference on Cloud and Big Data Computing*, CBDCoM’16, Toulouse, France, July 2016. IEEE.

- [22] Alberto Montresor. Reflecting on the past, preparing for the future: from peer-to-peer to edge-centric computing. In *Proc. of the 36th Int. Conference on Distributed Computing Systems*, ICDCS'16, Nara, Japan, June 2016. IEEE Computer Society.
- [23] Sabeur Aridhi, Martin Brugnara, Yannis Velegrakis, and Alberto Montresor. Distributed k -core decomposition and maintenance in large dynamic graphs. In *Proc. of the 10th ACM Int. Conference on Distributed and Event-Based Systems*, DEBS'16, Irvine, CA, June 2016. ACM.
- [24] Sabeur Aridhi, Alberto Montresor, and Yannis Velegrakis. BLADYG: A novel block-centric framework for the analysis of large dynamic graphs. In *Proc. of the ACM Workshop on High Performance Graph Processing, HPGP@HPDC 2016*, pages 39–42, Kyoto, Japan, May 2016. ACM.
- [25] Hanna Kavalionak, Amir Payberah, Alberto Montresor, and Jim Dowling. NATCloud: Cloud-assisted NAT-traversal service. In *Proc. of the 31st Symposium on Applied Computing*, SAC'16, Pisa, Italy, April 2016. ACM.
- [26] Alessio Guerrieri and Alberto Montresor. DFEP: Distributed funding-based edge partitioning. In *Proc. of the 21th Int. Conference on Parallel Processing*, EuroPar'15. Springer, 2015.
- [27] Giovanni Simoni, Roberto Roverso, and Alberto Montresor. RankSlicing: A decentralized protocol for supernode selection. In *Proc. of the 14th IEEE P2P Conference on Peer-to-Peer Computing*, P2P'14. IEEE, 2014.
- [28] Alessio Guerrieri, Alberto Montresor, and Yannis Velegrakis. Top-k item identification on dynamic and distributed datasets. In *Proc. of the 20th Int. Conference on Parallel Processing*, EuroPar'14. Springer, 2014.
- [29] Benedikt Elser and Alberto Montresor. An evaluation study of BigData frameworks for graph processing. In *Proc. of the 2013 IEEE Int. Conference on Big Data*, BigData'13, pages 60–67, Santa Clara, CA, USA, October 2013. IEEE.
- [30] Amir H. Payberah, Hanna Kavalionak, Alberto Montresor, Jim Dowling, and Seif Haridi. Lightweight gossip-based distribution estimation. In *Proc. of IEEE Int. Conference on Communications*, ICC'13, pages 3439–3443, Budapest, Hungary, June 2013. IEEE.
- [31] Giuliano Mega, Alberto Montresor, and Gian Pietro Picco. Cloud-assisted dissemination in social overlays. In *Proc. of the 13th IEEE P2P Conference on Peer-to-Peer Computing*, P2P'13, Trento, Italy, September 2013. IEEE.
- [32] Giuliano Mega, Alberto Montresor, and Gian Pietro Picco. On churn and communication delays in social overlays. In *Proc. of the 12th IEEE P2P Conference on Peer-to-Peer Computing (P2P'12)*, pages 214–223, Tarragona, Spain, September 2012. IEEE.
- [33] Amir Hossein Payberah, Hanna Kavalionak, Vimalkumar Kumaresan, Alberto Montresor, and Seif Haridi. CLive: Cloud-assisted P2P live streaming. In *Proc. of the 12th IEEE P2P Conference on Peer-to-Peer Computing (P2P'12)*, pages 79–88, Tarragona, Spain, September 2012. IEEE.
- [34] Alessio Guerrieri and Alberto Montresor. DS-Means: Distributed data stream clustering. In *Proc. of the 18th Int. Conference on Parallel Processing*, EuroPar'12, pages 260–271. Springer, 2012.
- [35] Alberto Montresor. Designing extreme distributed systems: Challenges and opportunities. In *Proc. of the 8th Int. ACM SIGSOFT Conference on Quality of Software Architectures (QoSA'12)*, Bertinoro, Italy, June 2012. ACM.
- [36] Hanna Kavalionak and Alberto Montresor. P2P and cloud: A marriage of convenience for replica management. In *Proc. of the 7th IFIP Int. Workshop on Self-Organizing Systems (IWSOS'12)*, number 7166 in Lecture Notes in Computer Science, pages 60–71, Delft, The Netherlands, March 2012. Springer.
- [37] 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.
- [38] 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.

- [39] 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)*. IEEE, December 2010.
- [40] Marco Ajelli, Renato Lo Cigno, and Alberto Montresor. Modeling botnets and epidemic malware. In *Proc. of the Int. Communications Conference (ICC'10)*. IEEE, May 2010.
- [41] 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 (IWSOS'09)*, volume 5918 of *Lecture Notes in Computer Science*, pages 201–206, Zurich, Switzerland, December 2009. Springer.
- [42] 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. IEEE.
- [43] 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. IEEE.
- [44] 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. ACM.
- [45] 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. IEEE.
- [46] 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, Lisbon, Portugal, June 2009. ACM.
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- [48] 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](#).
- [49] 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. IEEE. An extended version of the paper can be found [here](#).
- [50] Alberto Montresor. Intelligent gossip. In *2nd Int. Symposium on Intelligent Distributed Computing (IDC'08)*, Catania, Italy, September 2008. Springer. Invited paper.
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- [52] 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. IEEE.
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- [54] 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. IEEE.

- [55] 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.
- [56] 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.**
- [57] 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.
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- [59] 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. Springer.
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- [65] Alberto Montresor, Hein Meling, and Ozalp Baboglu. Messor: Load-balancing through a swarm of autonomous agents. In *Proc. 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.
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- [67] 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.
- [68] 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.
- [69] 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.

- [70] 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. IEEE.
- [71] Alberto Montresor, Renzo Davoli, and Ozalp Babaoglu. Enhancing Jini with group communication. In *Proc. of the 21st Int. Conference on Distributed Computing Systems Workshops (ICDCS'01)*, Phoenix, AZ, USA, April 2001. IEEE.
- [72] 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.
- [73] 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. IEEE.

Pubblicazioni in altre aree di ricerca

- [1] 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.
- [2] 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.
- [3] 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.
- [4] 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.

Software

Peersim è un simulatore di protocolli peer-to-peer, sviluppato in Java a partire dal 2003 in collaborazione con Mark Jelasity (Hungarian Academy of Science e University of Szeged).E' stato scaricato più di 35.000 volte ed utilizzato in più di 1000 articoli scientifici (Gennaio 2021).

Dati statistici

Database	H-index	# Citations	Top paper
Google Scholar	39	7367	920
Scopus	23	3963	525

Riconoscimenti

- 2018** Z. T. Kefato, N. Sheikh, L. Bahri, A. Soliman, A. Montresor, and S. Girdzijauskas. CAS2VEC: network-agnostic cascade prediction in online social networks. In *Proc. of the 5th International Conference on Social Networks Analysis, Management and Security (SNAMS 2018)*, pages 72–79. IEEE, October 2018.
- 2011** A. Montresor and L. 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.
- 2006** G. P. Jesi, A. Montresor, and O. Babaoglu. Proximity-aware superpeer overlay topologies. In *Proc. of SelfMan'06*, LNCS 3996, pages 43-57. Springer-Verlag, Dublin, Ireland, June 2006.

3 Finanziamenti

Coordinamento progetti

Title	Year	Agency & Type	Role	Own Budget	Total Amount
Conto Terzi Grant	2019	U-Hopper	Coordinator	45.000€	
Progetto CLIC	2018	PAT	Member	12.500€	25.000€
Sensemaking Service – Entity Linking for Big Linked Data	2017	EIT ICTLabs Activity	Local unit coord.	55.000€	
Sensemaking Service – Entity Linking for Big Linked Data	2016	EIT ICTLabs Activity	Local unit coord.	50.000€	
Conto Terzi Grant	2015	SpazioDati	Coordinator	20.000€	
Large Scale Graph Proc.for Big Linked Data Analytics	2014	EIT ICTLabs Activity	Local unit coord.	60.000€	
Europa	2013	EIT ICTLabs Activity	Local unit coord.	29.000€	
Europa	2012	EIT ICTLabs Activity	Local unit coord.	32.000€	
Autonomic Security	2010-2102	MIUR PRIN	Project coord.	48.370€	201.000€
ATLAS	2007-2011	Atlantis Double-Degree Project	Project coord.	146.000€	408.000€
“Gossip-based Strategies in Global Optimization”	2008	ESA - Ariadna Project	Local unit coord.	29.000€	
Total				526.870€	

Partecipazione a progetti

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/ . Workpackage 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

4 Didattica

Incarichi didattici

2020-	“Laboratory of Computer Science Education”, C.d.L. Magistrale in Informatica, , Univ. of Trento.
2006-	“Distributed Systems”, C.d.L. Magistrale in Informatica, , Univ. of Trento.
2005-	“Algoritmi e Strutture Dati”, C.d.L. in Informatica, , Univ. of Trento
2016-2019	“Scientific Programming”, C.d.L. Magistrale in Computat. and Quantitative Biology, Univ. of Trento and C.d.L. Magistrale in Data Science, Univ.
2008,2010	“P2P Systems”, Doctorate School in ICT, Univ. of Trento (in collaboration with Renato Lo Cigno)
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.

Other courses

2017-2019	“Laboratorio di Pensiero Computazionale”, in Percorsi di aggiornamento “Lo studio della mente e l’arte di insegnare”, Univ. of Trento.
2017	”Computational thinking”, in Corso di Perfezionamento in ”Tecnologia per l’Educazione: Dispositivi e Diversità”, Univ. of Trento.
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.

Supporto alla didattica

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.
1997-1999	“Sistemi 1”, C.d.L. in Informatica, Università di Bologna.

E-learning

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

2002-2005	At the University of Bologna, he supervised and co-supervised 13 B.Sc. theses and 17 M.Sc. theses
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2005-2018	At the Univ. of Trento, he supervised and co-supervised 61 B.Sc. theses and 31 M.Sc. theses
2006-2010	Ph.D. Supervision, Marco Biazzi, now Development Engineer at Amadeus IT Group
2008-2013	Ph.D. Co-supervision, Giuliano Mega, now researcher at SpazioDati
2009-2013	Ph.D. Supervision, Hanna Kavalionak, now post-doc at CNR - Pisa
2011-2015	Ph.D. Supervision, Alessio Guerrieri, now researcher at SpazioDati
2014-2019	Ph.D. Supervision, Zekarias Kefato, now post-doc at KTH (Stockholm)
2016-2019	Ph.D. Supervision, Nasrullah Sheikh, now at IBM - Almaden
2014-	Ph.D. Supervision, Cristian Consonni

5 Attività professionali

Incarichi organizzativi

2019-	Delegate of the Rector for ICT Services, University of Trento.
2018-	Delegate for the relationships with Secondary Schools, Dept. of Information Engineering and Computer Science, University of Trento.
2015-2018	Delegate for the relationships with CLA, Dept. of Information Engineering and Computer Science, University of Trento.
2012-2015	Education Coordinator, Dept. of Information Engineering and Computer Science, University of Trento.
2010-2013	Member of the “Nucleo di Valutazione” of the University of Trento.
2007-2012	Coordinator of the ATLAS Project - Double Degree in Computer Science in Cooperation with Georgia Institute of Technology, Technischen Universitaet Muenchen
2009-2012	Delegato per l'orientamento, Faculty of Science, University of Trento
2009-2012	Delegato per la disabilità, Faculty of Science, University of Trento
2006-2009	Coordinator of the Computer Science Degree Committee (Consiglio d'Area Didattica in Informatica), Faculty of Science, University of Trento.

Comitati editoriali

2011-2020	Associate Editor, Springer Computing Journal.
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Numeri speciali su rivista

2012	Extreme Distributed Systems, Springer Computing Journal.
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Steering committee member

2007-2009	Int. Conf. on Distributed Systems and Interoperable Applications (DAIS).
2007-2013	Int. Conf. on P2P Computing (P2P). Since October 2010, steering committee chair.

General chair

- 2020** 1st Int. Workshop on Distributed Infrastructure for Common Good ([DICG'20](#)).
- 2018** 12th Int. Conf. on Peer-to-Peer Computing ([SASO'18](#)).
- 2007** 7th Int. Conf. on Self-Adaptive and Self-Organizing Systems ([P2P'07](#)).

Programme committee chair

- 2016** 1st Workshop on Edge Computing ([WEC'16](#))
- 2009** 3rd Int. Conf. on Self-Adaptive and Self-Organizing Systems ([SASO'09](#)), Program Co-Chair.
- 2008** Distributed Objects, Middleware, and Applications (DOA'08), Program Co-Chair.
- 2006** 6th Int. Conf. on Peer-to-Peer Computing ([P2P'06](#)), Program Co-Chair.
- 2006** 6th Int. Conf. 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.

Track chair

- 2018** Distributed Systems and Algorithms Topic, [EuroPar 2018](#), Topic Co-Chair.
- 2014** Social Networks, Crowdsourcing, and P2P systems Track, ICDCS'14, Track Chair
- 2012** Peer-to-Peer Computing Topic, [EuroPar 2012](#), Topic Co-Chair.
- 2011** Peer-to-Peer Computing Topic, [EuroPar 2011](#), Topic Co-Chair.
- 2008** Peer-to-Peer Computing Topic, [EuroPar 2008](#), Vice Co-Chair.
- 2007** Peer-to-Peer Computing Topic, [EuroPar 2007](#), Topic Co-Chair.

Finance chair

- 2013** 13th Int. Conf. on Peer-to-Peer Computing ([P2P'13](#)), Trento, Italy
- 2008** 2nd Int. Conf. on Self-Adaptive and Self-Organizing Systems ([SASO'08](#)), Venice, Italy.

Attività di organizzazione

- 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, Italy.
- 2001** 4th European Research Seminar on Advances in Dist. Comp. Systems (ERSADS'01), Bertinoro, Italy,
- 1996** 10th Int. Workshop on Distributed Algorithms (WDAG'96), Bologna, Italy.

Program committee member

CryBlock'20, DAIS'20, SAC'20, CryBlock'19, SAC'19, CryBlock'18, OPODIS'18, CLOUDCOM'18, TD-LSG'18, DaMNet'18, SAC'18, ICCCN'18, UCC'17, DAIS'17, HPDC'17, DAIS'16, Middleware'16, ICPADS'16, LSDVE'16, ICDCS'16, Middleware'15, ICPADS'15, P2P'15, DAIS'15, Middleware'14, DAIS'14, ORMACLOUD'14 P2P'13, DAIS'13, OPODIS'13, PDP'13 ORMACLOUD'13 P2P'12, DAIS'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

Attività di revisione per riviste

ACM Computing Survey, IEEE Trans. on Parallel and Distributed Systems, IEEE Trans. on Computers, IEEE Trans. on Computer Communication, IEEE Trans. on Computer Networks, IEEE Trans. on Knowledge Engineering, IEEE Trans. on Network and Service Management, IEEE Trans. on Dependable and Secure Computing, IEEE Trans. on Autonomous and Adaptive Systems, IEEE Trans. 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,

Attività di revisione di progetto

2016	External Reviewer, Swiss National Science Foundation, Switzerland
2014,2015	External Reviewer, Qatar National Research Fund, Qatar.
2013	External Reviewer, Swedish Knowledge Foundation, Sweden.
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.

Servizio in commissioni di dottorato

2020	Abhishek Singh, invitato da Roman Vitenberg, University of Oslo, Norway
2018	Lucas L. Provensi, invitato da Frank Eliassen, University of Oslo, Norway
2016	Istvan Hegedus, invitato da Mark Jelasity, University of Szeged, Hungary
2016	Tommaso Pirini, invitato da Claudio Sartori, Università di Bologna, Italy
2015	Ruma Paul, invitato da Vladimir Vassov, KTH, Sweden
2013	Roberto Roverso, invitato da Seif Haridi, KTH, Sweden
2013	Tallat Shafaat, invitato da Seif Haridi, KTH, Sweden
2013	Paal Evensen, invitato da Hein Meling, University of Stavanger, Norway

2013	Rajesh Sharma, invitato da Anwitaman Datta, Nanyang Technological University, Singapore
2012	Jan Mark Wams, invitato da Maarten van Steen, VU University Amsterdam, The Netherlands
2011	Amir Payberah, invitato da Seif Haridi, KTH, Sweden.
2011	Rameez Rahman, invitato da Henk Sips, Delft University of Technology, The Netherlands
2010	Kovendhan Ponnaivaikko, invitato da J. Dharanipragada, IIT Madras, India.
2009	Bartosz Biskupski, invitato da Renè Meier, Trinity College, Dublin, Ireland.
2009	Marc Sanchez, invitato da Pedro Garcia Lopez, Univ. Pompeu Fabra, Spain.
2008	Roman Schmidt, invitato da Karl Aberer, EPFL, Switzerland.

6 Keynote Speaker

2012	“Designing extreme distributed systems: challenges and opportunities”. 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 talk, seminari e tutorial

2016	“Gossip as a framework”. Middleware 2016, December 2016, Trento, Italy.
2016	“Reflecting on the past, preparing for the future: from peer-to-peer to edge-centric computing”. International Conference on Distributed Computing Systems. June 2016, Nara, Japan
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”, 1 st 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 Esperienze lavorative

2002	Redazione scientifica dell’opera “Quattro.Zero”, di Federico Tibone e compilazione dell’appendice “Quattro.Zero – Materiali per l’insegnante”, su incarico di Zanichelli Editore (Bologna)
2002	Redazione scientifica dell’opera “A Portata di Mouse”, di Federico Tibone e compilazione dell’appendice “A Portata di Mouse – Materiali per l’insegnante”, su incarico di Zanichelli Editore (Bologna)
2001	Redazione scientifica delle opere “Computer Multimediale” di G. Russo, J. Jamrich-Parsons e D. Oja, e “Scrivere e comunicare con il computer” di G. Russo, M.L. Swangson, D.I. Barker e C.L.H. Barker, su incarico di Zanichelli Editore di Bologna.
2000-2002	Attività didattica per conto della Sun Microsystems Italia, su temi riguardanti Java, Java RMI, Servlet, Enterprise JavaBeans e sicurezza in Java.
2000	Attività didattica per due stage aziendali organizzati dalla NCH (Network Computer House) di Bologna e finanziati dalla Comunità Europea, su temi riguardanti elementi fondamentali di informatica, architettura degli elaboratori, sistemi operativi, reti informatiche, sicurezza e programmazione.
2000-2002	Realizzazione, in più riprese, di software per l’analisi della qualità paesaggistica, a seguito di incarichi del Dipartimento di Biologia dell’Università di Padova.
1998	Redazione scientifica della traduzione dell’opera “Computer Networks” di L. Peterson e B. Davie, su incarico di Norma Srl di Parma e Zanichelli Editore di Bologna.
1996-1997	Traduzione dall’inglese all’italiano dei capitoli 5 e 6 dell’opera “Computer Networks” di Andrew S. Tanenbaum, su incarico della Società UTET Libreria S.r.l.
1996	Realizzazione di un software per la gestione degli orari (lezioni e tesi di laurea), su incarico dell’Università di Venezia “Cà Foscari”.
1992-2001	Realizzazione, in più riprese, di software di analisi della qualità delle rive relative al bacino idrografico del fiume Adige, a seguito di incarichi della Provincia di Verona, della Regione Veneto e del Dipartimento di Biologia dell’Università di Padova.
1991	Realizzazione di un software per l’analisi dei testi letterari, su incarico dell’Università di Venezia “Cà Foscari”.