

Curriculum Vitae et Studiorum

Alberto Montresor

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1 Introduction

Name Alberto Montresor
Birth Verona, July 28th,1971
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2 Positions

2020- Full Professor – Department of Information Science and Engineering, University of Trento.
2005-2020 Associate Professor – Department of Information Science and Engineering, University of Trento.
2002-2005 Assistant researcher – Faculty of Science, University of Bologna.
2000-2002 Post-doc – University of Bologna. Funded by Sun Microsystems and the European Project ADAPT.
1998 Visiting researcher at the Computer Science Department of the University of Twente (Enschede, The Netherlands), invited by Prof. Sape Mullender.

3 Education and habilitations

2018 Habilitation as Full Professor, SSD 09/H1
2014 Habilitation as Full Professor, SSD 01/B1
1995-2000 Ph.D. in Computer Science – University of Bologna.
1990-1995 Ms.C. in Computer Science – University of Bologna. 110/110 cum laude.

4 Publications

Books

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

Proceedings, editor

- [1] O. Babaoglu, M. Jelasity, A. Montresor, C. Fetzer, S. Leonardi, A. van Moorsel, and M. 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] F. Eliassen and A. 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.
- [3] D. H. J. Epema, A. Montresor, M. Jelasity, and J. 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), Aug. 2008. Springer.
- [4] P. Felber, O. Beaumont, A. Montresor, and A. 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, Aug. 2011. Springer.
- [5] M. Hauswirth, A. Wierzbicki, K. Wherle, A. Montresor, and N. Shahmehri, editors. *Proc. of the 7th Int. Conference on Peer-to-Peer Computing (P2P'07)*. IEEE, Sept. 2007.
- [6] M. Little, A. Montresor, and G. 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, Nov. 2008. Springer.
- [7] A. Montresor, F. L. Fessant, D. H. J. Epema, and S. Voulgaris. Topic 7 - Peer-to-Peer Computing. In *Proc. of the 13th Int. Conference on Parallel Processing, EuroPar'07*, pages 477–478. Springer, Aug. 2007.
- [8] A. Montresor and P. Garcia Lopez, editors. *Proc. of the First Workshop on Edge Computing*. IEEE, June 2016.
- [9] A. Montresor, E. Pitoura, A. Datta, and S. 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, Aug. 2012.
- [10] A. Montresor, F. Saffre, and N. Medvidovic, editors. *3rd IEEE Int. Conference on Self-Adaptive and Self-Organizing Systems (SASO'09)*, San Francisco, CA, September 2009. IEEE.
- [11] A. Montresor, A. Wierzbicki, and N. Shahmehri, editors. *Proc. of the 6th Int. Conference on Peer-to-Peer Computing (P2P'06)*. IEEE, Sept. 2006.

Refereed articles in journals

- [1] O. Babaoglu, G. Canright, A. Deutsch, G. Di Caro, F. Ducatelle, L. Gambardella, N. Ganguly, M. Jelasity, R. Montemanni, and A. Montresor. Design patterns from biology for distributed computing. *ACM Transactions on Autonomous and Adaptive Systems*, 1(1):26–66, Sept. 2006.
- [2] O. Babaoglu, R. Davoli, and A. Montresor. Group communication in partitionable systems: Specification and algorithms. *IEEE Transactions on Software Engineering*, 27(4):308–336, Apr. 2001.
- [3] M. Biazini and A. Montresor. P2POEM: Function optimization in p2p networks. *Peer-to-Peer Networking and Application*, 6(2):213–232, 2013.
- [4] N. Busi, A. Montresor, and G. Zavattaro. Data-driven coordination in peer-to-peer information systems. *Int. Journal of Cooperative Information Systems*, 13(1):63–89, Mar. 2004.
- [5] C. Consonni, D. Laniado, and A. 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*, 2020. To appear.

- [6] W. L. da Costa Cordeiro, F. R. Santos, M. P. Barcelos, L. P. Gasparly, H. Kavalionak, A. Guerrieri, and A. Montresor. Making puzzles green and useful for adaptive identity management in large-scale distributed systems. *Computer Networks*, 95:97 – 114, 2016.
- [7] P. Garcia Lopez, A. Montresor, D. Epema, A. Datta, T. Higashino, A. Iamnitchi, M. Barcellos, P. Felber, and E. Riviere. Edge-centric computing: Vision and challenges. *SIGCOMM Comput. Commun. Rev.*, 45(5):37–42, Sept. 2015.
- [8] G. Gheorghe, R. L. Cigno, and A. Montresor. Security and privacy issues in P2P streaming systems: A survey. *Peer-to-Peer Networking and Application*, 4(2):75–91, 2011.
- [9] A. Guerrieri, I. Carreras, F. D. Pellegrini, D. Miorandi, and A. Montresor. Distributed estimation of global parameters in delay-tolerant networks. *Computer Communications*, 33(13):1472–1482, Aug. 2010.
- [10] M. Jelasity, A. Montresor, and O. Babaoglu. Gossip-based aggregation in large dynamic networks. *ACM Trans. Comput. Syst.*, 23(1):219–252, Aug. 2005.
- [11] M. Jelasity, A. Montresor, and O. Babaoglu. T-Man: Gossip-based fast overlay topology construction. *Computer Networks*, 53(13):2321–2339, 2009.
- [12] G. P. Jesi, A. Montresor, and O. Babaoglu. Proximity-aware superpeer overlay topologies. *IEEE Transactions on Network and Service Management*, 4(2):74–83, Sept. 2007.
- [13] G. P. Jesi, A. Montresor, and M. van Steen. Secure peer sampling. *Computer Networks*, 54(13):2086–2098, June 2010.
- [14] H. Kavalionak, E. Carlini, L. Ricci, A. Montresor, and M. Coppola. Integrating peer-to-peer and cloud computing for massively multiuser online games. *Peer-to-Peer Networking and Application*, 8(2):301–319, 2015.
- [15] L. Maccari, L. Ghio, A. Guerrieri, A. Montresor, and R. L. Cigno. Exact distributed load centrality computation: Algorithms, convergence, and applications to distance vector routing. *IEEE Trans. Parallel Distrib. Syst.*, 31(7):1693–1706, 2020.
- [16] G. Mega, A. Montresor, and G. P. 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.
- [17] H. Meling, A. Montresor, B. Helvik, and O. Babaoglu. Jgroup/ARM: A distributed object group platform with autonomous replication management. *Software Prac. Exper.*, 38(9):885–923, July 2008.
- [18] A. Montresor. Gossip and epidemic protocol. *Wiley Encyclopedia of Electrical and Electronics Engineering*, 1, 2017.
- [19] A. Montresor, F. de Pellegrini, and D. Miorandi. Distributed k -core decomposition. *IEEE Trans. Parallel Distrib. Syst.*, 24(2):288–300, 2013.
- [20] A. Montresor, G. Eiben, and M. van Steen. Extreme distributed systems: from large scale to complexity. *Computing*, 94(8–10):619–620, 2012.
- [21] Y. V. Sabeur Aridhi, Alberto Montresor. BLADYG: A graph processing framework for large dynamic graphs. *Big Data Research*, 9:9–17, 2017.
- [22] J. Sacha and A. Montresor. Identifying frequent items in distributed data sets. *Computing*, 95(4):289–307, 2013.
- [23] N. Sheikh, Z. Kefato, and A. Montresor. GAT2VEC: Representation learning for attributed graphs. *Computing*, 101(3):187–209, 2019.
- [24] S. Surendran, M. Vinodini Ramesh, M. J. Montag, and A. Montresor. Modelling communication capability and node reorientation in offshore communication network. *Computers & Electrical Engineering*, 87, 2020.

Invited articles in journals

- [1] O. Babaoglu, M. Jelasity, A.-M. Kermarrec, A. Montresor, and M. 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] P. Costa, V. Gramoli, M. Jelasity, G. P. Jesi, E. L. Merrer, A. Montresor, and L. Querzoni. Exploring the interdisciplinary connections of gossip-based systems. *SIGOPS Oper. Syst. Rev.*, 41(5):51–60, Oct. 2007.

Book chapters

- [1] O. Babaoglu, R. Davoli, and A. Montresor. Group communication in partitionable systems: Specification and algorithms. In S. Krakoviak and S. Shirivastava, editors, *Advances in Distributed Systems*, number 1752 in Lecture Notes in Computer Science, pages 48–78. Springer-Verlag, 1999.

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- [1] L. Abeni and A. Montresor. Scheduling in p2p streaming: From algorithms to protocols. In T. Spyropoulos and K. A. 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, Dec. 2009. Springer.
- [2] M. Ajelli, R. L. Cigno, and A. Montresor. Modeling botnets and epidemic malware. In *Proc. of the Int. Communications Conference (ICC'10)*. IEEE, May 2010.
- [3] L. Angeli, F. Fiore, A. Montresor, and M. Marchese. Designing a hands-on learning space for the new generation. In *Proceedings of the FabLearn Europe 2019 Conference*. IATED, May 2019.
- [4] L. Angeli, M. Stoycheva, F. Fiore, A. Montresor, and M. 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. ACM, July 2019.
- [5] S. Aridhi, M. Brugnara, Y. Velegrakis, and A. 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.
- [6] S. Aridhi, A. Montresor, and Y. 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.
- [7] O. Babaoglu, T. Binci, M. Jelasity, and A. 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.
- [8] O. Babaoglu, G. Canright, A. Deutsch, G. Di Caro, F. Ducatelle, L. Gambardella, N. Ganguly, M. Jelasity, R. Montemanni, and A. Montresor. Design patterns from biology for distributed computing. In *Proc. of the European Conference on Complex Systems*, Paris, France, Nov. 2005.
- [9] O. Babaoglu, R. Davoli, A. Montresor, and R. 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.
- [10] O. Babaoglu, H. Meling, and A. 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.
- [11] B. Bánhelyi, M. Biazzi, A. Montresor, and M. 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](#).

- [12] A. Bartoli, C. Calabrese, M. Prica, E. A. D. Muro, and A. 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.
- [13] M. Biazzi, B. Bánhelyi, A. Montresor, and M. 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.
- [14] M. Biazzi and A. 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, Dec. 2010.
- [15] M. Biazzi, A. Montresor, and M. Brunato. Towards a decentralized architecture for optimization. In *Proc. of the 22nd IEEE Int. Parallel and Distributed Processing Symposium (IPDPS'08)*, Miami, FL, USA, Apr. 2008. IEEE.
- [16] N. Busi, C. Manfredini, A. Montresor, and G. 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.
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- [19] C. Consonni, D. Laniado, and A. 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.
- [20] C. Consonni, P. Sottovia, A. Montresor, and Y. Velegrakis. Discovering order dependencies through order compatibility. In *Proc. of 22nd Int. Conference on Extending Database Technology, EDBT'19*, pages 409–420, 2019.
- [21] B. Elser and A. 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, Oct. 2013. IEEE.
- [22] L. Forlizzi, M. Lodi, V. Lonati, C. Miolo, M. Monga, A. Montresor, A. Morpurgo, and E. 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.
- [23] A. Guerrieri and A. Montresor. DS-Means: Distributed data stream clustering. In *Proc. of the 18th Int. Conference on Parallel Processing, EuroPar'12*, pages 260–271. Springer, 2012.
- [24] A. Guerrieri and A. Montresor. DFEP: Distributed funding-based edge partitioning. In *Proc. of the 21th Int. Conference on Parallel Processing, EuroPar'15*. Springer, 2015.
- [25] A. Guerrieri, A. Montresor, I. Carreras, F. D. Pellegrini, and D. Miorandi. Distributed estimation of global parameters in delay-tolerant networks. In *Proc. of the 3rd IEEE WoWMoM Workshop on Autonomic and Opportunistic Communications (AOC'09)*, Kos, Greece, June 2009. IEEE.
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- [27] A. Guerrieri, A. Montresor, and Y. Velegrakis. Top-k item identification on dynamic and distributed datasets. In *Proc. of the 20th Int. Conference on Parallel Processing, EuroPar'14*. Springer, 2014.
- [28] B. Helvik, H. Meling, and A. 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, Apr. 2005. Springer.

- [29] M. Jelasity and A. 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, Mar. 2004. IEEE Computer Society.
- [30] M. Jelasity, A. Montresor, and O. 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, Apr. 2004.
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- [33] G. P. Jesi and A. 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.
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- [36] Z. T. Kefato and A. 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, Feb. 2017.
- [37] 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 Int. Conference on Social Networks Analysis, Management and Security (SNAMS 2018)*, pages 72–79. IEEE, Oct. 2018. Best paper award.
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- [39] Z. T. Kefato, N. Sheikh, and A. Montresor. Mineral: Multi-modal network representation learning. In *Proc. of the 3rd Int. Conference on Machine Learning, Optimization and Big Data, MOD'17*. ACM, Sept. 2017.
- [40] Z. T. Kefato, N. Sheikh, and A. Montresor. REFINE: Representation learning from diffusion events. In *Proc. of the 4th Conference on Machine Learning, Optimization and Data science, LOD'18*. Springer, Sept. 2018.
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- [43] Q. F. Lotito and A. Montresor. Efficient algorithms to mine maximal span-trusses from temporal graphs. In *Proc. of the 16th Int. Workshop on Mining and Learning With Graphs, MLG'20*. ACM, Aug. 2020.
- [44] M. Luca, A. Montresor, C. Caprini, and D. 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.
- [45] L. Maccari, L. Ghio, A. Guerrieri, A. Montresor, and R. 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, Apr. 2018.

- [46] G. Mega, A. Montresor, and G. P. 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, Aug. 2011.
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- [62] A. Montresor, M. Jelasity, and O. 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, Nov. 2008. IEEE. An extended version of the paper can be found [here](#).
- [63] A. Montresor, H. Meling, and O. 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.

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- [67] A. H. Payberah, H. Kavalionak, V. Kumaresan, A. Montresor, and S. 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, Sept. 2012. IEEE.
- [68] A. H. Payberah, H. Kavalionak, A. Montresor, J. Dowling, and S. Haridi. Lightweight gossip-based distribution estimation. In *Proc. of IEEE Int. Conference on Communications, ICC'13*, pages 3439–3443, Budapest, Hungary, June 2013. IEEE.
- [69] C. Sakouhi, S. Aridhi, A. Guerrieri, S. Sassi, and A. Montresor1. 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.
- [70] N. Sheikh, Z. T. Kefato, and A. 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, Oct. 2018.
- [71] N. Sheikh, Z. T. Kefato, and A. 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, Dec. 2019.
- [72] G. Simoni, R. Roverso, and A. 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.
- [73] A. Zanotto, N. Conci, and A. Montresor. Blockchain-grade privacy protection in surveillance systems. In *Proceedings of the 13th Int. Conference on Distributed Smart Cameras, ICDSC 2019*. ACM, Dec. 2019.

Publications in other research areas

- [1] M. 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, Oct. 2000.
- [2] M. 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. Braioni, G. Salmoiraghi, A. Montresor, G. Penna, and P. DeFranceschi. The banks quality in the monitoring and restoring of the watercourses. *Atti Associazione Italiana Oceanologia Limnologia*, 14:77–88, 2001.
- [4] M.G. Braioni, A. Braioni, P. 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 is a simulator for peer-to-peer protocols, developed in Java starting in 2003, in cooperation with Mark Jelasy (Hungarian Academy of Science and University of Szeged). It has been downloaded more than 33.000 times and used in almost 1000 scientific papers (May 2020).

Publication records

Database	H-index	# Citations	Top paper
Google Scholar	39	6990	897
Scopus	22	3191	506

Awards

- 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.

5 Grants

Project coordination

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€	

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/>. 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

6 Teaching

Courses

- 2016-2019** “Scientific Programming”, C.d.L. Magistrale in Computat. and Quantitative Biology, Univ. of Trento
- 2018-2019** “Scientific Programming”, C.d.L. Magistrale in Data Science, Univ. of Trento
- 2005-** “Algoritmi e Strutture Dati”, C.d.L. in Informatica, , Univ. of Trento
- 2006-** “Distributed Systems”, C.d.L. Magistrale in Informatica, , Univ. of Trento.
- 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.

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.
- 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.

Thesis supervision

- 2002-2005** At the University of Bologna, he supervised and co-supervised 13 B.Sc. theses and 17 M.Sc. theses
- 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 Biazzini, 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

7 Professional activities

Administration activities

- 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.

Editorial Board

2011- Associate Editor, Springer Computing Journal.

Special Issues

2012 Extreme Distributed Systems, Springer Computing Journal.

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

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.

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, 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

[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](#)

Journal review activities

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,

Project review activities

- 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.

External Ph.D. Examiner

2018 Lucas L. Provensi, invited by Frank Eliassen, University of Oslo, Norway
2016 Istvan Hegedus, invited by Mark Jelasity, University of Szeged, Hungary
2016 Tommaso Pirini, invited by Claudio Sartori, Università di Bologna, Italy
2015 Ruma Paul, invited by Vladimir Vassov, KTH, Sweden
2013 Roberto Roverso, invited by Seif Haridi, KTH, Sweden
2013 Tallat Shafaat, invited by Seif Haridi, KTH, Sweden
2013 Paal Evensen, invited by Hein Meling, University of Stavanger, Norway
2013 Rajesh Sharma, invited by Anwitaman Datta, Nanyang Technological University, Singapore
2012 Jan Mark Wams, invited by Maarten van Steen, VU University Amsterdam, The Netherlands
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.

8 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.

9 Invited talks, seminars and tutorials

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”, 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.

10 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”.