

Alberto Montresor

Full Professor of Computer Science

Vice-Rector for Third Mission and Relations with Schools

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Curriculum vitae
et studiorum

30 August 2026

1 Academic profile

Current positions

- 2024-** Vice-Rector for Third Mission and Relations with Schools, University of Trento.
- 2020-** Full Professor, Department of Information Engineering and Computer Science, University of Trento.

Academic experience

- 2005-2020** Associate Professor, Department of Information Engineering and Computer Science, University of Trento.
- 2002-2005** Assistant Professor, Department of Computer Science, University of Bologna.
- 2002** Research contract at the University of Bologna, funded by the European ADAPT project.
- 2000-2002** Postdoctoral researcher at the University of Bologna, funded in part by the Italian Ministry of University and Research and in part by Sun Microsystems.
- 1998** Visiting researcher at the Department of Computer Science, University of Twente (Enschede, The Netherlands), invited by Prof. Sape Mullender.

Education and habilitations

- 2018** Italian National Scientific Habilitation as Full Professor, sector 09/H1.
- 2014** Italian National Scientific Habilitation as Full Professor, sector 01/B1.
- 1995-2000** Ph.D. in Computer Science, University of Bologna, under the supervision of Ozalp Babaoglu.
- 1990-1995** M.Sc. in Computer Science, University of Bologna, 110/110 cum laude, under the supervision of Ozalp Babaoglu.
- 1985-1990** Scientific high-school diploma, Liceo Scientifico G. Fracastoro, Verona, 58/60.

2 Research vision and programme

The connecting thread of my research is the study of complex systems that must operate under real-world conditions: distributed, dynamic, constrained, and shaped by the interaction of many actors. During my Ph.D. and the early years of my career, I addressed these issues in distributed and fault-tolerant systems, studying group communication and developing Jgroup, an extension of Java RMI designed for high availability. From 2002 to 2015, I worked on epidemic protocols and peer-to-peer systems, contributing to aggregation, load balancing, decentralised ranking, and topology construction. In this context, I co-designed PeerSim, which has become a reference tool for large-scale network simulation. Since 2010, this perspective has expanded to algorithms for large-scale graph analysis, including structural decomposition, community detection, ranking, multilayer networks, and hypergraphs.

In recent years, my interests have progressively focused on Computer Science Education, the teaching of computer science and computational thinking, and teacher education. My experience in relations with schools and, since 2024, as Vice-Rector for Third Mission and Relations with Schools has made this perspective more concrete. Sustained engagement with teachers, school leaders, students, professional communities, and institutions shows the limitations of viewing the relationship between universities and schools as a one-way transfer of completed results. Practice is not merely where research is applied: it is where relevant problems emerge, hypotheses are tested, and constraints become visible that controlled experimental settings tend to conceal.

My central claim is that research and practice should form a continuous cycle. Schools help define questions and co-design interventions; research makes models explicit, gathers evidence, evaluates effects, and returns transferable tools. From this perspective, third mission is not limited to dissemination. It becomes the joint production of knowledge and the construction of durable relationships among universities, schools, and local communities.

Initiatives such as TeacherDojo@Trento, the Algorithm Gym, CoDeMI, and STEM Integrates per la Scuola, just to mention a few examples, provide concrete laboratories for this approach: they generate research questions from the needs of practice and return

evidence-informed tools, learning pathways, and opportunities for professional exchange to educational communities.

Connecting Dots Learning Lab. A central setting for this programme is the interdisciplinary community established at the end of 2023 through a partnership among the University of Trento, Glow, and Verona FabLab. The lab integrates STEAM and constructionist education, co-design with schools and community organisations, and scientific evaluation of interventions, creating a continuous cycle of experimentation, evidence, and refinement of practice. The model and its initial results are described in *Building a Constructionist Community: Expanding an Academic Learning Lab Beyond Institutional Boundaries*.

Co-design with teachers. I aim to develop research partnerships in which teachers contribute from the initial formulation of the problem. Their professional knowledge is essential for building realistic learning pathways, usable tools, and research questions that are meaningful in educational settings.

Evidence from practice. Innovations in computer science education should be evaluated not only for immediate effectiveness, but also for inclusion, adoptability, organisational demands, and sustainability. This requires integrating quantitative and qualitative methods and paying specific attention to how an intervention is adapted across contexts.

From experimentation to system capacity. A research result gains public value when it can inform initial and continuing teacher education, generate open resources, strengthen professional communities, and support institutional decisions. Projects, courses, and laboratories can therefore become research infrastructures as well as instruments of education and third mission.

My goal is to contribute to research in computer science education that is rigorous and, at the same time, accountable to the settings in which it must operate. Connecting practice and research means treating the complexity of educational contexts not as an obstacle to remove, but as a source of knowledge and as a criterion for assessing the quality and relevance of scientific work.

3 Research outputs and indicators

Publication records

5	textbooks for university and high school
11	proceedings publications as editor
41	journal articles
2	book chapters
102	conference papers

Database	H-index	Citations	Top paper
Google Scholar	45	9743	1260
Scopus	30	4784	835

Awards

2025	"Emma Castelnuovo and Alfredo Margreth" Award for teaching science subjects in lower and upper secondary schools, Accademia Nazionale dei Lincei.
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.

4 Third mission and relations with schools

These roles provide the institutional setting in which I develop the relationship among research, teacher education, schools, and local communities.

2024-	Vice-Rector for Third Mission and Relations with Schools, University of Trento.
2025-	Member of the Autonomous Province of Trento working group revising the Trentino Digital School Plan and addressing the integration of artificial intelligence in education.
2022-	Coordinator of the University Centre for Teacher Education and Relations with Schools (FIRS), University of Trento.

2021-	Member of the Scientific and Coordination Committee of the Teaching and Learning Centre (FormID), University of Trento.
2020-	Scientific Coordinator of FabLab UniTrento.
2022-2024	Rector's Delegate for Third Mission, University of Trento.
2018-2022	Delegate for Relations with Schools, Department of Information Engineering and Computer Science, University of Trento.

Selected initiatives

2025-2027	Scientific design and coordination of <i>STEM Integrate per la Scuola</i> , a national project broadening female participation in STEM through teacher education, research, and school partnerships.
2022-	Founder and coordinator of TeacherDojo@Trento, a recurring programme of hands-on professional development and exchange of practices for teachers.
2025-	Coordinator of the <i>Algorithm Gym</i> , an initiative involving schools and university tutors in problem solving, algorithms, and competitive programming.
2025-2026	Co-design of CoDeMI – <i>Co-Developing Educational Materials in Mathematics and Informatics</i> , a Free University of Bozen-Bolzano partnership supported by the Euregio Mobility Fund.
2025-	Co-design, with MUSE and the research group, of the educational activities associated with the exhibition <i>IO & AI – Perspectives on the Co-evolution of Human and Digital Cognition</i> .
2025-2026	Member of the local coordination team of Edvance – Digital Education Hub Higher Education, a PNRR project on innovation in higher education and the production of digital learning resources.

5 Grants

Title	Years	Agency and type	Role	Own budget	Total
STEM Integrate per la Scuola	2025-2027	Dept. for Equal Opportunities, STEM 2024 call	Coordinator	75 000 €	300 000 €
CoDeMI	2025-2026	Euregio Mobility Fund	Local unit coord.	2 500 €	5 000 €
VIPPSTAR	2025	Horizon	Member	166 200 €	
Sparkle	2025	Repubblica Digitale	Local unit coord.	42 525 €	
Smaca	2024	Euregio	Local unit coord.	4 900 €	
Minerva	2023-2025	FSE	Local unit coord.	30 100 €	
Learning Informatics	2023-2026	MUR PRIN	Coordinator	46 730 €	214 388 €
Progetto Lauree Scientifiche	2023	MUR	Local unit coord.	30 000 €	
Cloudstars	2023-2026	MUR	Local unit coord.	86 000 €	
STEM Kit	2021	MUR	Coordinator	56 000 €	100 000 €
Computational Thinking Academy	2021	Erasmus+	Local unit coord.	56 227 €	
Progetto Lauree Scientifiche	2021	MUR	Local unit coord.	20 000 €	
Progetto Lauree Scientifiche	2019	MUR	Local unit coord.	22 000 €	
Conto Terzi Grant	2019	U-Hopper	Coordinator	45 000 €	45 000 €
Progetto CLIC	2018	PAT	Member	12 500 €	
Sensemaking Service - Entity Linking for Big Linked Data	2017	EIT ICT Labs Activity	Local unit coord.	55 000 €	
Sensemaking Service - Entity Linking for Big Linked Data	2016	EIT ICT Labs Activity	Local unit coord.	50 000 €	
Conto Terzi Grant	2015	SpazioDati	Coordinator	20 000 €	20 000 €
Large Scale Graph Processing for Big Linked Data Analytics	2014	EIT ICT Labs Activity	Local unit coord.	60 000 €	
Europa	2013	EIT ICT Labs Activity	Local unit coord.	29 000 €	
Europa	2012	EIT ICT Labs Activity	Local unit coord.	32 000 €	
Autonomic Security	2010-2012	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				1 166 052 €	

6 Teaching

Courses

2005-	"Algoritmi e Strutture Dati", C.d.L. in Informatica, Univ. of Trento
2020-2023	"Laboratory of Computer Science Education", C.d.L. Magistrale in Informatica, Univ. of Trento.
2006-2021	"Distributed Systems", C.d.L. Magistrale 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. 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

2024-	"Informatica per l'Apprendimento", Percorso 60-CFU, Univ. of Trento
2024-	"Didattica dell'Informatica e Fondamenti della Disciplina", Percorso 60-CFU classe A-41, Univ. of Trento
2024-	"Didattica degli Algoritmi", Percorso 60-CFU classe A-41, Univ. of Trento
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.
2003-2004	"Sistemi Operativi", Progetto A3 (Ambiente Accessibile d'Apprendimento), Università di Bologna.
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.

Thesis supervision

2005-	At the Univ. of Trento, he supervised and co-supervised 184 B.Sc. theses and 71 M.Sc. theses
2002-2005	At the University of Bologna, he supervised and co-supervised 13 B.Sc. theses and 17 M.Sc. theses
2006-2010	Ph.D. Supervision, Marco Biazzi, Senior Business Analyst at Amadeus IT Group (France)
2008-2013	Ph.D. Co-supervision, Giuliano Mega, Project Lead @ Logos Storage
2009-2013	Ph.D. Supervision, Hanna Kavalionak, post-doc at CNR - Pisa (Italy)
2011-2015	Ph.D. Supervision, Alessio Guerrieri, Data Engineer at AcademicLabs (Belgium)
2014-2019	Ph.D. Supervision, Zekarias Kefato, senior AI scientist at AstraZeneca (UK)
2016-2019	Ph.D. Supervision, Nasrullah Sheikh, IBM - Almaden (USA)
2014-2019	Ph.D. Supervision, Cristian Consonni, JRC (EC Joint Research Centre)
2019-2023	Ph.D. Co-supervision, Francesca Fiore, post-doc at Università di Trento (Italy)
2021-2025	Ph.D. Supervision, Francesco Lotito, post-doc at University of Wien (Austria)
2021-2026	Ph.D. Co-supervision, Sruthy Anand, Amrita Vishwa Vidyapeetham (India)
2023-	Ph.D. Supervision, Giulia Paludo
2024-	Ph.D. Supervision, Marta Valentini
2024-	Ph.D. Supervision, David Martin Zikovitz

7 Professional activities

Administration activities

2021-	Member of the Academic Senate, University of Trento
2022-	Member of the Committee for the Implementation of the Strategic Plan, University of Trento
2019-2022	Delegate of the Rector for ICT Services, 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	Delegate for school orientation, Faculty of Science, University of Trento
2009-2012	Delegate for disabilities, Faculty of Science, University of Trento
2006-2009	Coordinator of the Computer Science Degree Committee, Faculty of Science, University of Trento.

Scientific committees and academic boards

2025-	Member of the Scientific Committee of the MUSE exhibition <i>IO & AI – Perspectives on the Co-evolution of Human and Digital Cognition</i> (initially <i>Training Humanity</i>).
2023-	Member of the Board of Professors of the National Ph.D. Programme in <i>Learning Science and Digital Technologies</i> (LESKIT).
2005-	Member of the Board of Professors of the Doctoral School in <i>Computer Science and Engineering</i> , University of Trento, Italy (IECS).

Editorial Board

2011-2020	Associate Editor, Springer Computing Journal.
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Special Issues

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.
2026	Int. Conf. on Constructionism.

General chair

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

Programme committee chair

2016	1 st Workshop on Edge Computing (WEC'16)
2009	3 rd 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	6 th 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.

Organizational activities

- 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.

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

- 2023** Racin Nygaard, Assessment Committee member, University of Stavanger, Norway
- 2020** Abhishek Singh, invited by Roman Vitenberg, University of Oslo, Norway
- 2018** Lucas L. Provensi, invited by Frank Eliassen, University of Oslo, Norway

2016	Istvan Hegedus, invited by Mark Jelasity, University of Szeged, Hungary
2016	Tommasso 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.

Other international doctoral committees

2020-2022	Doctoral Committee member for Simi Surendran, Amrita Vishwa Vidyapeetham, India.
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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 public events

2026	"AI for Teaching". Training programme <i>Generative Artificial Intelligence and University Teaching</i> , University of Verona, 16 April 2026.
2026	"Artificial Intelligence: Where We Are and Future Perspectives". Avanguardie Educative, ITT Buonarroti, Trento, 2 March 2026.
2025	"Teaching Ideas Across Mathematics and Computer Science". CoDeMI seminar, Free University of Bozen-Bolzano, 16 December 2025.
2025	Talk on artificial intelligence and education at the event on consciousness, MUSE, Trento, 4 October 2025.
2025	Session chair, "States General of the Trentino Digital School", Wired Next Fest Trentino, Rovereto, 3 October 2025.
2025	Teacher professional-development seminar on artificial intelligence, University of Verona, 5 May 2025.
2025	Teacher professional-development day on artificial intelligence, DIMA, University of Genoa, 11 April 2025.
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 semi-

nar.

- 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 Publications

Books

- [1] G. Bissoli, A. Del Zozzo, M. Lodi, and A. Montresor. *Sulle orme di Milù: Guida di informatica*. Italian. Milano: Mondadori, 2026.
- [2] M. Boscaini, A. Montresor, and M. Masetti. *Hashtag – Corso di informatica con Python per il Liceo scientifico opzione scienze applicate – Volume 3*. Milano: Hoepli, 2024.
- [3] M. Boscaini, A. Montresor, and M. Masetti. *Hashtag – Corso di informatica con Python per il liceo scientifico opzione scienze applicate – Volume 2*. Milano: Hoepli, 2023.
- [4] M. Boscaini, A. Montresor, and M. Masetti. *Hashtag – Corso di informatica con Python per il liceo scientifico opzione scienze applicate – Volume 1*. Milano: Hoepli, 2022.
- [5] A. Bertossi and A. Montresor. *Algoritmi e strutture di dati - 3ª Ed*. Torino: Città Studi Edizioni, 2014.

Proceedings, editor

- [1] A. Montresor and P. Garcia Lopez, eds. *Proc. of the First Workshop on Edge Computing*. IEEE, June 2016.
- [2] 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*. Vol. 7484. EuroPar'12. Springer, Aug. 2012, p. 363. doi: [10.1007/978-3-642-32820-6_36](https://doi.org/10.1007/978-3-642-32820-6_36).
- [3] 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*. Vol. 6852. EuroPar'11. Bordeaux, France: Springer, Aug. 2011, pp. 514–515.
- [4] A. Montresor, F. Saffre, and N. Medvidovic, eds. *3rd IEEE Int. Conference on Self-Adaptive and Self-Organizing Systems (SASO'09)*. San Francisco, CA: IEEE, Sept. 2009.
- [5] 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. Las Palmas de Gran Canaria (Spain): Springer, Aug. 2008, pp. 599–600.
- [6] M. Little, A. Montresor, and G. Pavlik, eds. *Proc. of the 10th Int. Symposium on Distributed Objects, Middleware, and Applications (DOA'08)*. Vol. 5331. Lecture Notes in Computer Science. Monterrey, Mexico: Springer, Nov. 2008.
- [7] M. Hauswirth, A. Wierzbicki, K. Wherle, A. Montresor, and N. Shahmehri, eds. *Proc. of the 7th Int. Conference on Peer-to-Peer Computing (P2P'07)*. IEEE, Sept. 2007.
- [8] 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. Springer, Aug. 2007, pp. 477–478.
- [9] F. Eliassen and A. Montresor, eds. *Distributed Applications and Interoperable Systems: 6th IFIP WG 6.1 Int. Conference, DAIS'06*. Vol. 4025. Lecture Notes in Computer Science. Springer-Verlag, June 2006.
- [10] A. Montresor, A. Wierzbicki, and N. Shahmehri, eds. *Proc. of the 6th Int. Conference on Peer-to-Peer Computing (P2P'06)*. IEEE, Sept. 2006.
- [11] O. Babaoglu, M. Jelasity, A. Montresor, C. Fetzer, S. Leonardi, A. van Moorsel, and M. van Steen, eds. *Self-Star Properties in Complex Information Systems*. Vol. 3460. Lecture Notes in Computer Science, Hot Topics. Springer-Verlag, May 2005. doi: <http://doi.acm.org/10.1007/b136551>.

Journal articles

- [1] Q. F. Lotito, L. Betti, B. Nortier, A. Montresor, and F. Battiston. "Hypergraphx-data: a repository for higher-order network data". In: *Journal of Complex Networks* 14.3 (June 2026). doi: [10.1093/comnet/cnag014](https://doi.org/10.1093/comnet/cnag014).
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- [3] G. Paludo and A. Montresor. "Toward a New Paradigm of AI-Powered Programming Education Through Metacognition". In: *Italian Journal of Educational Technology* (2026). doi: [10.17471/2499-4324/1457](https://doi.org/10.17471/2499-4324/1457).
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Publications in other research areas

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- [2] 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*. Genova, Italy, Oct. 2000, pp. 287–289.
- [3] 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.
- [4] M. 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*. Seattle, WA, USA, 1994, pp. 287–289.

11 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".