PERSONAL INFORMATION MARCO CONTI



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Sex M | Date of birth 16/12/62| Nationality Italian

h-index: 56 total citations: 17692 (source: Scopus)

Enterprise	University	EPR
Management Level	Full professor	Research Director and 1st level Technologist / First
		Researcher and 2nd level Technologist
Mid-Management Level	Associate Professor	Level III Researcher and Technologist
Employee / worker level	Researcher and Technologist of IV, V, VI and VII	Researcher and Technologist of IV, V, VI and VII
	level / Technical collaborator	level / Technical collaborator

WORK EXPERIENCE

01.09.2023 - present	Interim Director of Institute IIT-CNR, Via G. Moruzzi 1, 56124 Pisa, Italy, <u>https://www.iit.cnr.it/</u>
01.09.2019 - 31.08.2023	Director of Institute
	IIT-CNR, Via G. Moruzzi 1, 56124 Pisa, Italy, https://www.iit.cnr.it/
04.10.2016 - 31.08.2019	Member of the Scientific Council of CNR
	CNR, Piazzale Aldo Moro, 7, Italy
01.02.2013 - 04.11.2016	Director of the department "Engineering, ICT and Technologies for Energy and Transport CNR, Piazzale Aldo Moro, 7, Italy
01.01.2001 - present	Research Director
	 IIT-CNR, Via G. Moruzzi 1, 56124 Pisa, Italy Research topics: Decentralised AI, Big Data Analytics, Online Social Networks, 5G, IoT and Edge Computing, Mobile Networks <u>Research</u>
01.03.1999 - 31.12.2000	Senior Researcher
	IIT-CNR, Via G. Moruzzi 1, 56124 Pisa, Italy
	 Research topics: Distributed computing systems Mobile Networks
30.12.1988 - 28.02.1999	Research Researcher
2010211000	IIT-CNR, Via G. Moruzzi 1, 56124 Pisa, Italy
	 Research topics: Mobile and wireless networks, ad hoc networks, performance modeling Research
01.12.1987 – 29.12.1988	Research Associate
	CNUCE Institute, CNR, Pisa (IT)
	 Research topics: Computer Networks, Performance modelling <u>Research</u>
ADDITIONAL POSITIONS	
2022 – present	Member of the Scientific Technical Committee
·	Agency for National Cybersecurity
2020 – present	Member of the Board of Directors and of the Strategic Committee EURid AISBL
2019-01.07.2022	Member of the Board of Directors

START 4.0 Competence Center

2015 –2018	Member of the Board of Directors and Vice-President
	Consortium RFX

2013 – 2019 Member of the Board of Directors IMT Lucca Graduate School

EDUCATION AND TRAINING

20.02.1987	M.Sc. in Computer Science	
	University of Pisa, Italy	

Specialization on performance modelling of hierarchical databases, 110/110 with honors

PROJECTS (last five years)	
(last live years)	With leadership roles
2022– present	 NRRP Enlarged Partnership "Future AI Research" (FAIR) Role: Chair of the scientific technical committee; Keywords: AI
2019 - 2023	 CNR Doctoral Project in Artificial Intelligence Role: Scientific coordinator of the project; Keywords: PhD, AI, PhD-AI.it
2019 - 2023	CNR Doctoral Project in Artificial Intelligence Role: Scientific coordinator of the project; Keywords: PhD, AI, PhD-AI.it
2016 - 2021	 H2020 REPLICATE: REnaissance of Places with Innovative Citizenship and TEchnolgy Role: CNR PI; Keywords: Smart Cities, IoT, Smart mobility
2019 – present	 ARTES 4.0: National Compentence Centre on Advanced Robotics and enabling digital Technologies & Systems Role: Member of the scientific-technical committee; Keywords: Decentralised AI, IoT, Industry 4.0
2016 – 2019	 H2020 FoF AUTOWARE: Wireless Autonomous, Reliable and Resilient Production Operation ARchitecture for Cognitive Manufacturing (CNR PI) Role: CNR Co-PI; Keywords: data management, IoT, Industry 4.0

Project reviewer

2019 - present ERC Starting Grant PE 6

COMMUNITY SERVICE (last five years)	
Conference Chair	IEEE SmartComp 2021
Steering Committees	IEEE PerCom (2006); IEEE WoWMoM (2015; co-chair); IEEE/IFIP WiOpt (2010)
TPC member	(most relevant) IEEE INFOCOM (2011 – 2020; area chair)
EDITORIAL ACTIVITY	
2018 - present	Editor-in-Chief for Special issues, Elsevier Pervasive and Mobile Computing
2017 - present	Founding Editor-in-Chief, Elsevier Online Social Networks and Media journal
2009 - 2018	Editor-in-Chief, Elsevier Computer Communications journal
2005 - 2018	Founding Associate Editor-in-Chief, Elsevier Pervasive and Mobile Computing

2005 - 2008 Member of the Editorial Board: IEEE Transaction on Mobile Computing (2005-2010), Ad Hoc Networks (2004-2012), ACM MC2R (2003-2004)

2006 - present Guest Editor, 21 special issues/sections, international peer-reviewed journals

PHD SUPERVISION

2004 - present	(Co-)Supervisor, 14 PhD students
2003 - present	Supervisor, 13 Post-Doc researchers
2021 - present	Member of the board of the National PhD in Artificial Intelligence (PhD-AI.it)
2017 - 2021	Member of the board of the PhD in "Data Science" - Scuola Normale Superiore of Pisa
2012 - 2017	member of the board of the PhD in Computer Science - University of Pisa

INSTITUTIONAL RESPONSIBILITIES

2021 - present	CNR representative, Coordinating Council of the National AI Doctorate, PhD-AI.it
2021 - present	CNR representative, Regional Tuscan Competence Center on Big Data and Artificial Intelligence (CBDAI)
2020 - present	Member of the Management Committee, Master on Internet Ecosystem: Governance and Rights, University of Pisa
2019 - present	CNR representative, Consorzio Nazionale Interuniversitario per l'Informatica (CINI)
2018 - present	CNR representative, Regional Tuscan Competence Center on Cybersecurity (C3T)
2017 - present	CNR representative, National Committee for Cybersecurity Research

INVITED TALKS

- 2021 **Invited Panelist** at "La via italiana ed europea all'intelligenza artificiale", Osservatorio Al dell'ANSA Roma, 8 November, 2021
- 2021 Invited Panelist at "Cities of the future: what possible evolution towards the creation of smart communities", 30th ICCCN Conference, Athens, 19 July 2021.
- 2019 Invited Talk "The CNR contribution to Italian AI", European Parliament, Brussels, 19 November 2019
- 2019 **Invited Talk** "CNR contribution to the Italian AI Strategy", Bilateral meeting on Artificial Intelligence, at French Embassy in Italy, Roma 9 July, 2019.
- 2018 Keynote Speaker, IEEE SmartComp 2018, Taormina, Italy, 19 June 2018
- 2016 Keynote Speaker, ACM SAC 2016, Pisa, Italy, 7 April 2016
- 2016 Invited Talk "Cyber Security @ CNR", British Embassy, Roma, 18 May, 2016.
- 2014 Invited Talk "CNR: La Ricerca per l'Innovazione del Paese", 2014 Finmeccanica Innovation Award, Rome, Nov. 26, 2014.

FELLOWSHIPS AND AWARDS

- 2017 Web of Science "2017 Highly Cited Researchers" Computer Science area
- 2016 Best Paper Nomination IEEE SmartComp 2016
- 2013 Best Paper Award IEEE WoWMoM 2013
- 2012 Best Paper Award IEEE ISCC 2012
- 2011 Best Paper Award IFIP Networking 2011

ADDITIONAL INFORMATION

- 2021 Member of the Working Group on the **National Strategy for Artificial Intelligence**
- 2020 Member of the Commission of Experts for the definition of the National Programme for Research 2021-2027.
- 2009 2015 Chair of IFIP Working Group 6.3 "Performance of Communication Systems"

PUBLICATIONS

Publications best and most relevant in the last 10 years

- 1. Mustafa Toprak, Chiara Boldrini, Andrea Passarella, Marco Conti, "Hamessing the Power of Ego Network Layers for Link Prediction in Online Social Networks", *IEEE Transactions on Computational Social Systems*, accepted for publication, 2022
- L. Valerio, A. Passarella, M. Conti, "Optimising cost vs accuracy of decentralised analytics in fog computing environments", *IEEE Transactions on Network Science and Engineering*, (ISSN: 2327-4697), 10.1109/TNSE.2021.3101986.
- 3. Claudio Cicconetti, Andrea Passarella, Marco Conti, "In-Network Computing with FaaS at the Edge", *IEEE Computer* (accepted for publication).
- K Ollivier, C Boldrini, A Passarella, M Conti, "Structural Invariants in Individuals Language Use: The "Ego-Network" of Words, International Conference on Social Informatics (Socinfo 2020), pp. 267-282.
- Mirco Nanni, Gennady Andrienko, Chiara Boldrini, Francesco Bonchi, Ciro Cattuto, Francesca Chiaromonte, Giovanni Comandé, Marco Conti, Mark Coté, Frank Dignum, Virginia Dignum, et. Alt. "Give more data, awareness and control to individual citizens, and they will help COVID-19 containment", *Ethics* and Information Technology 23 (1), 1-6.
- A Sîrbu, G Andrienko, N Andrienko, C Boldrini, M Conti, F Giannotti, et. Alt. "Human migration: the big data perspective", *International Journal of Data Science and Analytics*, Vol. 4 2020. <u>https://link.springer.com/article/10.1007/s41060-020-00213-5</u>.
- Claudio Cicconetti, Andrea Passarella, Marco Conti, "A Decentralized Framework for Serverless Edge Computing in the Internet of Things", *IEEE Transactions on Network and Service Management*, Digital Object Identifier: 10.1109/TNSM.2020.3023305.
- T Raptis, A Passarella, M Conti, "Distributed Data Access in Industrial Edge Networks", IEEE JSAC Vol. 38 (5), 915-927.
- Pavlos Paraskevopoulos, Chiara Boldrini, Andrea Passarella, Marco Conti: The academic wanderer: structure of collaboration network and relation with research performance. *Appl. Netw. Sci.* 6(1): 31 (2021).
- Matteo Mordacchini, Marco Conti, Andrea Passarella, and Raffaele Bruno. 2019. Human-centric Data Dissemination in the IoP: Large-scale Modeling and Evaluation. ACM Trans. Auton. Adapt. Syst. 14, 3, Article 10 (December 2019), 25 pages. <u>https://doi.org/10.1145/3366372</u>
- Lorenzo Valerio, Andrea Passarella, Marco Conti, "Energy Efficient Distributed Analytics at the Edge of the Network for IoT Environments", Elsevier *Pervasive and Mobile Computing*, Volume 51, Pages 27-42, December 2018, <u>https://doi.org/10.1016/j.pmcj.2018.09.004</u>
- Lorenzo Valerio, Andrea Passarella, Marco Conti, "A communication efficient distributed learning framework for smart environments", Elsevier *Pervasive and Mobile Computing*, Volume 41, October 2017, Pages 46-68, <u>https://doi.org/10.1016/j.pmcj.2017.07.014</u>
- 13. Valerio Arnaboldi, Marco Conti, Andrea Passarella, Robin Dunbar, "Structure of Ego-Alter Relationships of Politicians in Twitter", Journal of *Computer-Mediated Communication*, Vol 22(5), pp. 231-247 (2017).
- 14. Marco Conti, Andrea Passarella, Sajal, K. Das, "The Internet of People (IoP): A New Wave in Pervasive Mobile Computing", *Pervasive and Mobile Computing*, Vol. 41 2017, pp. 1-27.
- 15. Valerio Arnaboldi, Marco Conti, Andrea Passarella, Robin I.M. Dunbar, "Online Social Networks and information diffusion: The role of ego networks", Elsevier *Online Social Networks and Media*, 1 (2017) pp. 44–55, <u>http://doi.org/10.1016/j.osnem.2017.04.001</u>
- Matteo Mordacchini, Andrea Passarella, Marco Conti, "A social cognitive heuristic for adaptive data dissemination in mobile Opportunistic Networks", Elsevier *Pervasive and Mobile Computing*, Available online 17 June 2017.
- M. Mordacchini, L. Valerio, M. Conti, A. Passarella, "Design and evaluation of a cognitive approach for disseminating semantic knowledge and content in opportunistic networks", *Computer Communications*, Volume 81, 1 May 2016, Pages 12–30, <u>http://dx.doi.org/10.1016/j.comcom.2015.09.027</u>.
- Lorenzo Valerio, Andrea Passarella, Marco Conti, Elena Pagani, "Scalable data dissemination in opportunistic networks through cognitive methods", Elsevier *Pervasive and Mobile Computing*, Volume 16, Part A, January 2015, Pages 115–135, <u>http://dx.doi.org/10.1016/j.pmcj.2014.05.005</u>
- 19. V. Arnaboldi, A. Passarella, M. Conti, R. Dunbar, Online Social Networks: Human Cognitive Constraints in Facebook and Twitter Personal Graphs, Elsevier, October 2015.
- Robin Dunbar, Valerio Arnaboldi, Marco Conti, Andrea Passarella, "The Structure of Online Social Networks Mirror Those in the Offline World", Social Networks (2015) 43: 39-47.

- Umair Sadiq, M. Kumar, A. Passarella, M. Conti, "Service Composition in Opportunistic Networks: A Load and Mobility Aware Solution", *IEEE Transactions on Computers*, 64(8): 2308-2322 (2015).
- M. Mordacchini, A. Passarella, M. Conti, S.M. Allen, M.J. Chorley, G.B. Colombo, V. Tanasescu and R.M. Whitaker, "Crowdsourcing through Cognitive Opportunistic Networks", *ACM Transactions on Autonomous and Adaptive Systems*, 10, 2, Article 13 (June 2015), 29 pages, <u>http://dx.doi.org/10.1145/2733379</u>
- 23. Andrea Passarella, Marco Conti, "Analysis of individual pair and aggregate inter-contact times in heterogeneous opportunistic networks," *IEEE Transactions on Mobile Computing*, 12(12) pp. 2483-2495, 2013
- 24. Marco Conti, Matteo Mordacchini, Andrea Passarella, "Design and Performance Evaluation of Data Dissemination Systems for Opportunistic Networks Based on Cognitive Heuristics", *ACM Transactions on Autonomous and Adaptive Systems*, Volume 8 Issue 3, September 2013, http://dx.doi.org/10.1145/2518017.2518018
- 25. M. Pitkänen, T. Kärkkäinen, J. Ott, M. Conti, et alt. "SCAMPI: Service platform for soCial Aware Mobile and Pervasive computing," *ACM Computer Communication Review* 42(4): 503-508 (2012).
- M. Conti, S.K. Das, C. Bisdikian, M. Kumar, L. M. Ni, A. Passarella, G. Roussos, G.Tröster, G. Tsudik, F. Zambonelli- "Looking Ahead in Pervasive Computing: Challenges and Opportunities in the Era of Cyber-Physical Convergence", *Pervasive and Mobile* Computing Journal, Volume 8, Issue 1, 2012.

According to law 679/2016 of the Regulation of the European Parliament of 27th April 2016, I hereby express my consent to process and use my data provided in this CV.