

PERSONAL INFORMATION

Family name: **Ajmone Marsan** First name: **Marco Giuseppe**

Date of birth: [REDACTED]

Nationality: Italian

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URL for Google Scholar: <http://scholar.google.com/citations?hl=en&user=oPrHUW0AAAAJ>.

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EDUCATION

- Laurea in Electrical Engineering, October 1974, Politecnico di Torino, Italy (*this was the highest degree in the field in Italy at the time*)
- Master of Science in Electrical Engineering, June 1978, UC Los Angeles, USA
- **Honorary PhD** in Telecommunication Networks, March 2002, Budapest University of Technology and Economics, Hungary

CURRENT POSITIONS

- 11/90 – present : **Full Professor** in Telecommunications, Department of Electronics and Telecommunications, Politecnico di Torino, Italy
- 12/08 – present : Research Professor at IMDEA Networks Institute, Madrid, Spain

PREVIOUS POSITIONS

- 11/74 - 10/87 : Research Engineer, then Assistant Professor, then Associate Professor in Telecommunications, Department of Electronics and Telecommunications, Politecnico di Torino
- 11/87 - 10/90 : Full Professor in Informatics, Information Sciences Department, Milan University
- Visiting Scholar, Department of Computer Science, School of Engineering and Applied Science, University of California at Los Angeles, Los Angeles, CA, USA (summers of 1980 and 1981)
- Erskine Fellow, Department of Computer Science, University of Canterbury, Christchurch, New Zealand (summer of 1998)

SELECTED FELLOWSHIPS AND AWARDS

- Listed in **Thomson - ISI highly cited researchers in Computer Science** (ISIHighlyCited.com), with almost 15 thousand citations (about 3500 in the last 5 years), and an h-index of 52 (from Google Scholar)
- **IEEE Life Fellow**
- “**Honoris Causa**” **Doctoral Degree** in Telecommunication Networks from the Budapest University of Technology and Economics, March 2002
- Named “Commendatore” of the “**Ordine al Merito della Repubblica Italiana**” in January 2006 for scientific merits
- **Best paper award**, 1982 Int. Conf. on Distributed Computing Systems, Fort Lauderdale, USA
- **Best paper award**, 2011 International Teletraffic Conference, San Francisco, USA
- **Best student paper award**, 2017 International Teletraffic Conference, Genoa, Italy
- **IEEE COMSOC TC-CSIM best conference paper award 2019**

SUPERVISION OF GRADUATE STUDENTS AND POSTDOCTORAL FELLOWS

- 1990-present at Politecnico di Torino: **18 PhD students**, some of which have obtained relevant positions in academia and industry. For example, Andrea Fumagalli is Full Professor at UT Dallas, Antonio Nucci is VP at Cisco Systems, Dario Rossi is Full

Professor at Telecom Paris Tech in Paris, Giovanna Carofiglio is Head of the Paris Research Lab of Cisco, Andrea Bianco is Department Chair at Politecnico di Torino

- 2008-present at Institute IMDEA Networks: **3 PhD students**

TEACHING ACTIVITIES

- Politecnico di Torino - Courses in the areas of telecommunications and networking; for example: Signal Theory, Telecommunication Networks, Network Modeling, Telematic Systems, Computer Networks, Energy-Efficient Networks, Mobile Networks, Traffic Theory, Protocols for data networks, Design of Cellular Networks, Introduction to Telematic Networks, Markovian models
- University of Milano: Information and Transmission Theory
- University Carlos III (Madrid): Modeling and Design of Cellular Systems

ORGANISATION OF SCIENTIFIC MEETINGS (Main)

- **Vice-General Chair, IEEE MedComNet 2020**
- **General Co-Chair, IFIP PERFORMANCE 2014**
- **General Co-Chair, IEEE INFOCOM 2013**
- **General Co-Chair, IEEE ICC2023**
- General Co-chair, 2012 IEEE Online Conference on Green Communications
- **General Co-chair, ACM e-Energy 2012**
- General Co-chair, IEEE INFOCOM 2011 Workshop on Green Communications and Networking
- Member of many Technical Program Committees

INSTITUTIONAL RESPONSIBILITIES

- 10/05 – 9/09: **Vice-Rector** for Research, Innovation and Technology Transfer
- 9/02 – 3/09: **Director**, IEIIT-CNR (Institute for Electronics, Information and Telecommunication Engineering of the National Research Council of Italy)
- 10/13 – 9/16: **Director** of the Alta Scuola Politecnica, the joint Honours Program of the Politecnico di Milano and Torino
- 11/13 – 6/18: Coordinator of the Doctoral program in Electrical, Electronic and Communications Engineering of the Politecnico di Torino

COMMITTEES / BOARDS

- IEEE/ACM Transactions on Networking – **steering committee** (2008 – 2014; **Chair** June 2010 – June 2012)
- IEEE/ACM Transactions on Networking – editorial board (2001 – 2007)
- ACM Transactions on Modeling and Performance Evaluation of Computing Systems – editorial board (2014 –present)
- Computer Networks Journal (Elsevier) – editorial board (2001 – present)
- Performance Evaluation Journal (Elsevier) – editorial board (2005 – present)
- Member of the IEEE European Public Policy Initiative, ICT Working Group (2014-2018)
- Member of the Scientific Committee of CSELT of Torino (1992-2000)
- Member of the “Consiglio Superiore delle Comunicazioni” of the Italian Ministry for Telecommunications (2006-2007)
- Member of the Advisory Board of FUB (Fondazione Ugo Bordonini) of Rome (2008)
- Member of the Scientific Committee of Fondazione Bruno Kessler in Trento (2016-2021)
- Member of the Scientific Committee of LINCS in Paris (2021-present)
- **Italian Delegate in the ICT and ERC Committees of FP7** of the EC (2006-2013)
- Chairman of the Italian Group of Telecommunication Professors (GTTI) (2006-2012)
- Member of the board of the Gruppo 2003, the **association of Italian Highly Cited Scientists** (2014-2017)

MEMBERSHIP OF SCIENTIFIC SOCIETIES

- **Life Fellow**, Institute of Electrical and Electronics Engineers (**IEEE**)
- Member, **Academy of Sciences of Torino** (Italy)
- Member, **Academia Europaea**

SCIENTIFIC ACTIVITIES

I am the founder and the leader of the Telecommunication Networks Group (**TNG**) at the Department of Electronics and Telecommunications of the Politecnico di Torino.

My main research contributions are in the field of performance evaluation of computer networks and their protocols. I developed the GSPN (Generalised Stochastic Petri Nets) modelling paradigm, I developed groundbreaking results in modelling of MAC protocols, TCP, and input queued switches. I derived important innovative results in the field of green networking.

I published over 350 papers and 2 books. According to Google Scholar, **my h-index is equal to 55, my i10-index is equal to 185**, and my total number of citations is over 16 thousand (almost 3 thousand since 2016).

BOOKS

- Performance Models of Multiprocessor Systems (MIT Press, 1987)
- Modelling with Generalized Stochastic Petri Nets (John Wiley, 1995).