

# Curriculum Vitae

## Personal information

First name(s) / Surname(s) **Achille Pattavina**  
Institution Politecnico di Milano  
Department Dept. of Electronics and Information  
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E-mail <pattavina@elet.polimi.it>  
Nationality Italian  
Date of birth 04.03.1954

## Work experience

Dates November 1995 to present  
Occupation or position held Full Professor of Telecommunications  
Main activities and responsibilities Teaching, research on telecommunications networks, project management  
Name and address of employer Politecnico di Milano, piazza Leonardo da Vinci 32, 20133 Milano, Italy  
Type of business or sector Education and research

Dates November 1994 to October 1995  
Occupation or position held Full Professor of Telecommunications  
Main activities and responsibilities Teaching, research on telecommunications networks, project management  
Name and address of employer University of Catania, Piazza Università 2, Catania, Italy  
Type of business or sector Education and research

Dates November 1991 to October 1994  
Occupation or position held Associate Professor of Telecommunications  
Main activities and responsibilities Teaching, research on telecommunications networks, project management  
Name and address of employer Politecnico di Milano, piazza Leonardo da Vinci 32, 20133 Milano, Italy  
Type of business or sector Education and research

Dates July 1983 to October 1991  
Occupation or position held University researcher  
Main activities and responsibilities Research on telecommunications networks  
Name and address of employer University La Sapienza, Piazzale Aldo Moro 5, 00185 Rome, Italy  
Type of business or sector Education and research

Dates September 1981 to July 1983  
Occupation or position held Professor of Telecommunications  
Main activities and responsibilities Teaching  
Name and address of employer Italian Air Force base, Pratica di mare, Rome, Italy  
Type of business or sector Government

## Education and training

Dates 1979  
Title of qualification awarded Specialization diploma in Engineering of Computer and Automatic Control Systems  
Principal subjects/occupational skills Computer Science, Control Systems  
Name and type of organisation providing education and training University La Sapienza, Rome, Italy  
Public university.

Dates	1978
Title of qualification awarded	Dr. Eng. Degree (Laurea) in Electronics Engineering, full marks <i>cum laude</i> (10 semesters, age 18-24)
Principal subjects/occupational skills	Mathematics, Physics, Electronics, Telecommunications, Computer Science
Name and type of organisation providing education and training	University La Sapienza, Rome, Italy Public university.

### Personal skills and competences

Research attainments and competences	<p>He has undertaken research and experimental activity on the following subjects:</p> <ul style="list-style-type: none"> <li>- Switching theory in interconnection networks.</li> <li>- Design and analysis of communication networks.</li> <li>- Optical networks and switching systems.</li> <li>- Traffic analysis and characterization.</li> <li>- Green ICT.</li> <li>- Cloud computing and data centers.</li> </ul> <p>He participated to the research activities of several European and Italian projects He has long-time teaching experience in industry, with courses on various subjects of telecommunications.</p>
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Mother tongue	Italian
Other languages	English
Reading skills	Excellent
<i>Writing skills</i>	Excellent
<i>Verbal skills</i>	Excellent

## Organisational attainments and competences

- Editor-in-Chief of the journal *European Transactions on Telecommunications*, published by John Wiley & Sons (2000-2010)
- Technical program co-chair of the *IEEE International Conference on Cloud Networking* (CLOUDNET 2016), Pisa, Italy, Oct. 2016.
- General co-chair of the *Design of reliable Communication Networks* (DRCN 2016), Paris, France, Mar. 2016.
- General chair of the *European Conference on Networks and Optical Communications* (NOC 2014), Milano, Italy, June 2014.
- Technical program co-chair of the 2013 IEEE/CIC International Conference on Communications in China (ICCC), Xi'An, P.R. China, Aug. 2013.
- Technical program co-chair of the *Next Generation Networking and Internet Symposium* of IEEE ICC 2010, Capetown, South Africa, May 2010.
- Technical program co-chair of the *Optical Systems and Networks Symposium* of IEEE GLOBECOM 2007, Washington, DC, Dec. 2007.
- Technical program chair of the *IEEE/IFIP 9th Conference on Optical Network Design and Modelling* (ONDM 2005), Milano, Italy, Feb. 2005.
- Coordinator of the Politecnico di Milano research unit in the IP project COMBO (*CO*nvergence of *fixed and Mobile BrOadband access/aggregation networks*), 2013-2016, funded by the European Commission in the 7<sup>th</sup> Framework Programme.
- Coordinator of the Politecnico di Milano research unit in the IP project STRONGEST (*Scalable Tunable and Resilient Optical Networks Guaranteeing Extremely-high Speed Transport*), 2010-2012, funded by the European Commission in the 7<sup>th</sup> Framework Programme.
- Coordinator of the Politecnico di Milano research unit in the Networks of Excellence e-Photon/One, 2004-06, and e-Photon/One+, 2006-2008, (*Optical Networks: Towards Bandwidth Manageability and Cost Efficiency*), and BONE (*Building the Future Optical Network in Europe*), 2008-2010, funded by the European Commission in the 6<sup>th</sup> and 7<sup>th</sup> Framework Programme.
- Coordinator of the Politecnico di Milano research unit in the IP project MUPED (*Multi-Partner European Test Beds for Research Networking*), 2004-2007, funded by the European Commission in the 6<sup>th</sup> Framework Programme.
- Coordinator of the Politecnico di Milano research unit in the projects IntEleCT (*Internationalisation of Electronic Communications Training*), 2009-2011, funded by the European Commission in the Leonardo da Vinci Programme
- Coordinator of the Politecnico di Milano research unit in the projects INCERT (*International Certificates of Excellence in Selected Areas of ICT*) and TRAIN2CERT (*Vocational Training for Certification in ICT*), 2006-2009, funded by the European Commission in the Leonardo da Vinci Programme
- Coordinator of the project PRIN MIMOSA (*Experimental Measurements and Traffic Models in Multiservice Networks*), 2006-2007, and of the project PRIN BESOS (*Bandwidth efficiency and Energy Saving by sub-lambda Optical Switching*), 2010-2011, co-funded by the Italian Ministry of Education, University and Research (MIUR).
- Coordinator of the Politecnico di Milano research unit in the national projects IPPO (*IP Packet Optical Networks*), 2001-2002, TANGO (*Traffic models and Algorithms for Next Generation IP networks Optimization*), 2003-2004, ADONIS (*Algorithms for Dynamic Optical Networks based on Internet Solutions*), 2003-2004, WONDER (*WDM Optical Network DEMonstrator over Rings*), 2004-2005, co-funded by the Italian Ministry of Education, University and Research (MIUR).
- Responsible of research contracts between Politecnico di Milano and private companies.

## Other competences

- *Senior Member* of the IEEE (since 1993).
  - Editor of *IEEE Transactions on Communications* (1994-2011).
  - Member of the Technical Program Committee of many IEEE conferences.
  - Teacher of courses in telecommunications in industries and consortia.
  - Invited lecturer of tutorials on switching and networks in IEEE and non-IEEE conferences.
- Full CV and publications available at <http://home.deib.polimi.it/pattavina/>

## List of the most important publications

### Books:

- A. Pattavina, Switching Theory, Architectures and Performance in Broadband ATM Networks, John Wiley & Sons, 1998.
- A. Pattavina, Reti di Telecomunicazioni, McGraw-Hill, 2003 (in Italian).
- A. Pattavina, Reti di Telecomunicazioni: Networking e Internet, Second edition, McGraw-Hill 2007 (in Italian).
- A. Pattavina, Internet e Reti, 2018 (in Italian).