

Education

University of Padova (Italy) — Dottorato di ricerca, 1994 (PhD)

University of Padova (Italy) — Laurea, 1990 (5 year - University program)

University of California, Los Angeles – attendance of a year-long period at UCLA to study electrical engineering, being the recipient of a grant assigned by UCLA - University of California, Los Angeles (1989-1990).

Alumnus of UCEAP - University of California Educational Abroad Program

Academic career

Full professor of electrical and electronic measurements (ING-INF/07), University of Perugia (Italy), 2002-to date

Associate professor of electrical and electronic measurements (ING-INF/07), University of Perugia (Italy), 2000-2002

University researcher – University of Perugia (Italy) - 1997-2000

University researcher – Third University of Rome - 1994-1997

International awards

– IEEE Fellow member, since 2015

– Recipient of the 2015 IEEE Instrumentation and Measurement Technical Award

– I2MTC 2016 IEEE International Instrum. Meas. Technology Conference, Second best paper

– Distinguished Lecturer with IEEE Systems Council (2012-2023)

Keynote speeches

– Keynote speech at IEEE RASSE International Conference on Recent Advances in Systems Science and Engineering 6-8 Nov. 2024, “One-bit Metrology”

– Keynote speech at MeSSAC – Measurement, Sensor Systems and Applications Conference, 24-26 August 2022, “One-bit Measurements”

– Keynote speech International Metrological Conference "New trends in metrology", Lublin (Poland), 17-19.10.2022: “One-bit instrumentation”.

International editorial activities

– Editor-in-chief of the scientific journal *Measurement (Elsevier)*, (2018 – to date) Citescore 11.5, IF 5.6

– Founding Editor-in-chief of the scientific journal *Measurement: Digitalization (Elsevier)*, (2025 – to date)

– Member of the *Steering Committees*: IEEE Journal of Miniaturized Air and Space Systems, 2018,

IEEE Transactions on Big Data, 2013-2016, IEEE Transactions on Cloud Computing, 2013-2016

– Co-Chair of the Steering Committee: IEEE Open Journal on System Engineering 2022-to date

– Associate Editor for the journal IEEE Transactions on Circuits and Systems– I, 2005-2007

– Associate Editor for the journal IEEE Transactions on Circuits and Systems– II, 2002-2003

– Editor-in-chief of the scientific journal ACTA IMEKO (acta.imeko.org), 2013-2017

Responsibilities in international technical-scientific societies

– President of the IMEKO confederation (2025-to date), 41 member states – www.imeko.org

– President of the Italian Association of Professors in electronic measurements (GMEE), 2019 – 2022

– Chair of the IEEE Fellow evaluation committee of the IEEE Instrumentation and Measurement Society (2021, 2022); member of this Committee (2023)

– Past-president of the IEEE Systems Council, 2018

– President of the IEEE Systems Council, 2016-2017

– President–elect of the IEEE Systems Council, 2015

– Vice-president for publications di IMEKO Measurement Confederation, 2018 – 2022

– Chair of the Italian Chapter of the IEEE Systems Council, 2009–2011

– Vice-president for publications of the IEEE Systems Council and member of the Administrative Committee, 2011–2015

– Representative member of the IEEE Instr. and Meas. Society in the ADCOM of the IEEE Systems Council, 2009–2011

International conference responsibilities

– General Chair of the 2027 IMEKO World Congress – Congress center Rimini – Italy (www.imeko2027.org)

– Co-Chair of the MeSSAC – Measurement, Sensor Systems and Application Conference, Hangzhou China, 2025

– Co-founder and Co-Chair of MeSSAC – Measurement, Sensor Systems and Application Conference, Jinan, China, 2022

- Chair of the IEEE International Symposium of Systems Engineering, Perugia, October 16-18 2024 (<https://2024.ieeeisse.org>)
- Co-founder and Chair of the Technical Program Committee - IEEE International Symposium of Systems Engineering, 7 editions 2016-2022 (Rome, Edinburgh, Vienna)
- Co-Chair of the 1st IEEE International Symposium of Systems Engineering, Rome, 28–29 September 2015.
- General Co-Chair of the 2013 IEEE Nordic Mediterranean Workshop on Time-to-Digital Converters, Oct. 2013.
- Honorary Chairman of the IEEE International Workshop on Environmental, Energy and Monitoring Systems, Perugia, Italy, September 2012
- Chairman of 16th IMEKO TC-4 Intern. Workshop on ADC Modelling and Testing and IEEE ADC Forum, Orvieto, June 2011.
- Chairman of the IEEE Intern. Workshop on Environmental, Energy and Monitoring Systems, Milano, Italy, September 2011.
- Chairman of the IEEE Intern. Workshop on Environmental, Energy and Monitoring Systems, Taranto, Italy, September 2010.
- Chairman of 8th IMEKO TC-4 International Workshop on ADC Modelling and Testing, Perugia, September 2003.

Visiting positions

- Imperial College London – contract lecturer of *Decision Analytics* in the program: Weekend-MBA of the School of Business, 2017
- visiting research and teaching position: *University of California* – Irvine (lecturers of the teaching modules *Digital Signal Processing Laboratory* and *Telecommunications* - year 1996
- visiting research position: *Vrije Universiteit Brussels*, Department of Fundamental Electricity and Instrumentation, (Oct.–Dec. 2012 and Dec. 2014, ref. Prof. Johan Schoukens)

Recent projects

- 2022 – to date, national coordinator of the project ‘A Cyber-Physical System for In-operando Monitoring and Diagnostics of Battery Cells’, 308.384 euro – three Italian Universities: Perugia, Pisa and Bologna, grant PRIN 2022
- 2008–2011: national coordinator of the project ‘Methodologies and measurement techniques for the space-temporal localization in wireless sensor-networks’ (Italian Ministry of University and Research - projects PRIN, 101.224 euro - 4 Italian Universities: Perugia, Padova, Trento, Brescia)
- 2012–2013: leader of the project ‘Module mismatch optimization in photovoltaic systems,’ 27.000 euro
- 2012 – leader of the project ‘Advanced Business Intelligence based on Sustainability’ (project SustainAbility), 49.300 euro
- 2016 national coordinator of the project ‘PRIN Six DOF scalable finger tracking system, 425.087 euro – 3 Italian Universities: Perugia, Cassino e Brescia, grant PRIN 2015
- 2018 leader of the project ‘QuakeSense’, Fondazione Cassa di Risparmio di Perugia 18.000 euro

Research activity

Team leader of the research group in electrical and electronic measurements at the Engineering Department of the University of Perugia. Research areas:

- data conversion systems (ADC, DAC, TDC)
- monitoring of rechargeable batteries
- positioning systems
- statistical signal processing.

Group research website: [EMERLAB](#)

Paolo Carbone’s list of papers:

[Google Scholar](#)
[Scopus](#) (301 papers listed)
[ResearcherID](#) - [Publons](#)

Indicators

- fourth most productive author in terms of number of published papers (93) in the journal: *IEEE Transactions on Instrumentation and Measurement* (Scopus, extraction date: June 2025)
- (Quality of research: national assessment exercise) VQR 2004-2010: 9 products (assessment: 6 excellent, 3 good)

- (Quality of research: national assessment exercise) VQR 2011-2014: 5 products (assessment: 4 excellent, 1 very good)
- (Quality of research: national assessment exercise) VQR 2015-2019: 11 products (assessment: 8 excellent and extremely relevant, 3 excellent)
- Scholar H-index 38, Scopus H-index 31 (301 papers listed by Scopus in June 2025)
- He is included in the database associated with the analysis contained in the PlosOne article "A standardized citation metrics author database annotated for scientific field" (DOI: <https://doi.org/10.1371/journal.pbio.3000384>) which lists the top researchers in their field of research according to selected bibliometric indicators. (<https://elsevier.digitalcommonsdata.com/datasets/btchxktzyw/7>) issue 7, Sept. 16, 2024

Academic services

- University of Perugia – Engineering Dept.: Dept. Head (2010–2013)
- University of Perugia – Quality Assurance Office – President (2017 – 2019 and 2022-2025) and Vice-president (2013-2017)
- He coordinated the University QA during the recent external assessment by ANVUR (2024)
- Member of the evaluation committee - University of Genova - Italy (2013 - March 2017)
- President of the evaluation committee - University of Molise (2024 – to date)
- President of the evaluation committee - University of Cassino and Lazio Meridionale (2015 – 2021)
- President of the evaluation committee – Free University of Bolzano - Italy (2016 – to date)
- Quality representative for the application of the standard UNI EN ISO 9001:2015 to the quality system of the University of Perugia – Italy (2003 – to date)
- Director in Italy of the *Bradford-Perugia MBA* (2011, Master's degree in Business Administration), a cooperation between the University of Perugia and the University of Bradford, UK

Assessment and training activities

- Twenty+ year experience in the role of trainer in classes on Quality Engineering
- Accredited assessment expert with ANVUR, national agency for the evaluation of quality assurance of teaching and research, in Italian Universities – model AVA 3 (since 2015).
- Fondazione CRUI (contract): trainer on research quality organizational models in Universities (2012-2013).

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