

## **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 *Metrologia 2025*, Brazil, 1-4 December 2025 “Sustainability in Electronics”

– 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](http://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](http://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.ieeesse.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**

- 2026 - FLOR - A framework for low resolution data acquisition – Fondo Italiano per la Scienza, terzo bando, durata 60 mesi, 1.509.600 euro, principal investigator.
- 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](http://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 39, 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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