

PERSONAL INFORMATION

Concettina Buccella


✉ concettina.buccella@univaq.it, concettina.buccella@pec.it (certified mail)

🌐 https://www.disim.univaq.it/main/home.php?users_username=concettina.buccella

ID ORCID [0000-0002-2221-403X](https://orcid.org/0000-0002-2221-403X)

Gender Female | Nationality Italian

EDUCATION AND TRAINING

1982-1988 **Università degli Studi dell'Aquila**

Dott. Ing. in Ingegneria Elettrotecnica

1991 - 1995 - (VI Cycle) **Università degli Studi di Roma "La Sapienza"**

Ph.D. in Electrical Engineering

WORK EXPERIENCE

1990 – **University of L'Aquila**

Professor in Power Converters, Electric Machines and Drives (S.S.D. IIND08/A). Previous positions: Associate Professor (2002-2020), Assistant Professor(1994-2002), Engineer (1991-1994), Research Fellow(1989-1990)

Teaching Duties (since 1992)

Electrotechnics (B.Sc. courses in ICT Engineering, Electronic Engineering, Electrical Engineering, Chemical Engineering, Industrial Engineering)

Fundamentals of Energy Systems (M.Sc.)

Renewable Energy and Storage Systems (M.Sc.)

Academic Duties

2022 - 2024 Chair of the B.Sc. Degree in ICT Engineering

2021 – Member of Rectricted Council of the Department of Information Engineering, Computer Science and Mathematics

2013 – Member of the Ph.D. School in ICT

2010 - 2016 Member of the Ph.D. School in Ph.D. School in "Methods and systems for management of electrical and thermal energy produced by renewable and assimilable energy and for sustainable buildings"

1994 - 2010 Member of the Ph.D. School in Electrical and Information Engineering

2016 – **Harbin Institute of Technology, Harbin, P.R. China**

Temporary Professor

2007 – **DigiPower srl - Innovative PMI, 67100**

2007 - 2012 co-Founder, CEO, CSO and member of the Administrative Council

1988 - 1989 **Italtel S.p.A., (Industrial District of L'Aquila)**

R/D Engineer

RESEARCH ACTIVITY AND PUBLICATIONS

Concettina Buccella has coauthored n. 192 papers indexed by Scopus (AuthorID:6701903594) receiving 6770 citations and *H-index*=27. Around one third of these publications are on top level journals (*IEEE Transactions on Industrial Electronics*, *IEEE Transactions on Power Electronics*, *IEEE Transactions on Industrial Informatics*, *IEEE Journal on Emerging and Selected Topics in Power Electronics*, *IEEE Industrial Electronics Magazine*, *Electric Power System Research* (Elsevier), *Intelligent Industrial Systems* (Springer), *Matcom - Mathematics and Computers in Simulation - Journal* (Elsevier), *Green Energy and Technology* (Springer), *Energies* (MDPI), *Journal of Electrostatics* (Elsevier)), the others are published on the proceedings di top conferences such as: IEEE ECCE, IEEE IECON, IEEE ISIE, IEEE ICIT, IEEE IAS Annual Meeting, IEEE Powertech, IEEE EPE-PEMC, SPEEDAM, ICCEP,

ESARS, ICCAD and others. Many of them are joint publications with international authors. Her research activity has dealt with the following topics: Electromagnetic compatibility, Analytical and numerical methods for the study of electromagnetic fields, Applications of neural networks and wavelet transform, Smart Grids, Modulation techniques for multilevel converters

AWARDS

- 2023 IEEE Fellow
- 2024 Second Place Prize Paper Award for the *IEEE Journal of Emerging and Selected Topics in Power Electronics*: "Recursive Selective Harmonic Elimination for Multilevel Inverters, Mathematical Formulation and Experimental Validation," Vol. 11, No. 2, pp. 2178-2189, April 2023)
- 2013 Best paper award for the *IEEE Transactions on Industrial Informatics*: "Digital Control of Power Converters – A Survey," vol. 8, no. 3, pp. 437-447, August 2012
- 2012 Best paper award for the *IEEE Transactions on Industrial Informatics*: "Smart Grid Technologies: Communication Technologies and Standards," vol. 7, no. 4, pp. 529-539, November 2011

EDITORIAL BOARD MEMBERSHIP

- 2014 - - Associate Editor of: *IEEE Transactions on Industrial Electronics*, *IEEE Systems Journal*; Guest Editor of: *IEEE Transactions on Industrial Electronics*, *Energies*

CONFERENCE AND SCIENTIFIC SOCIETIES BOARDS

- 2018-2019 Chair of the *Renewable Energy Committee*, Industrial Electronics Society
- 2010 – Member of the *Renewable Energy Committee*, Industrial Electronics Society

CONFERENCE BOARDS

Concettina Buccella has been member of *Technical Program Committees*, *Steering Committees*, *Advisory Boards* and *Track Chair* of major IEEE Industrial Electronics Society conferences such as IEEE IECON and IEEE ISIE for many years.

INVITED SPEAKER

Plenary Speaker of the following conferences: ECEEW 2013, Luanda (Angola), ICRERA 2018, Paris (France), DAS2020 Brasov (Romania), and took seminars at various universities in P.R. China.

ADDITIONAL INFORMATION

Digital competences

SELF-ASSESSMENT

Information Processing	Communication	Content creation	Safety	Problem solving
Proficient user	Proficient user	Proficient user	Proficient user	Proficient user

[Digital competences - Self-assessment grid](#)

Mother tongue Italiano

Other languages

UNDERSTANDING		SPEAKING		WRITING
Listening	Reading	Spoken interaction	Spoken production	
C2	C2	C1	C1	C1

Levels: A1 and A2: Basic user – B1 and B2: Independent user – C1 and C2: Proficient user
[Common European Framework of Reference for Languages](#)

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

L'Aquila, (I), September 27, 2026

Concettina Buccella