

CV

Prof. Morabito Francesco Carlo

SCHOLASTIC TRAINING

1985 University of Naples, Italy, “Laurea” Electronic Engineering Degree, Summa cum Laude

SCIENTIFIC PUBLICATIONS

Editor or co-editor of 16 books, author or co-author of 30 book chapters, author or co-author of more than 350 peer-reviewed journal or conference papers, inventor of 2 international and 1 national patents

ORCID

<http://orcid.org/0000-0003-0734-9136>

INTERNATIONAL SCIENTIFIC SOCIETIES MEMBERSHIP

IEEE (Institute of Electrical and Electronic Engineers): 26 years; Member (1989-2000), Senior Member (2000-todate)

INNS (International Neural Network Society): Member (1992-2006), Senior Member (2006-todate)

SIREN (Italian Society of Neural Networks): Member (1989-todate); President (2008-2014)

PROFESSIONAL EXPERIENCE

Industry Position:

Consultant Radar Dp., Selenia Spa (nowadays Selex ES), 1985-1987

Res. Radar System Analysis Dp. Selenia Spa, 1987-1989

University Service:

Comp. Centre Director, Univ. of Reggio Calabria, 1989-1991

Researcher Electrical Engineering, Faculty of Engineering, Univ. Reggio Calabria, 1991-1998

Assoc. Prof. Electrical Engineering, Univ. Reggio C, 1998-2000

Full Professor Electrical Engineering, Univ. Reggio C, 2001-todate

President Electronic Engineering Degree Course, Univ. Reggio C, 1998-2001

Ph.D. Comm. Mem. Electronic Engineering, Univ. Reggio C, 1999 -2001, Biomedical Engineering, Univ. Reggio C,

2001 -2004, Information Engineering, Univ. Reggio C, 2004 -2013, Civil, Energy, Environmental and Security Engineering, Univ. Reggio Cal., 2013-todate

Inner Evaluation Committee Member, University of Reggio Calabria, 2000-2001

Dean of the Faculty of Engineering, 2001–2008

Member Bylaws Committee, 2011-2012

Vice-Rector for International Relations and Institutional Relationships, 2012-2018

Vice-Rector for International Relations and Internationalization, 2018-todate

University Delegate European University Association (EUA), 2013-todate

Deputy Rector, 2016-2017

Chair Industrial Engineering Degree, 2016-2019

Member of the Nat. Comm. for the Sc. Evaluation of Professor Candidates (ASN), 2016-2018

Professor of Electrical Eng., University of Cosenza, Italy, 2011

Ph. D. Lecturer 3rd cycle course “Intelligent Interfaces and Systems”, EPFL, Lausanne, Switzerland, 1999

DIDACTIC/TEACHING EXPERIENCE

Chair Steering Comm. Master Course in Biomedical Eng., 2002

Director Post-Degree Master Course, MAMETEK (Biomedical Engineering), University “Dante Alighieri”, 2012-2014

Lecturer Nat. School of Ph.D. in Electrical Engineering “Ferdinando Gasparini”, Course in “Neural Networks and Machine Learning”

Lecturer at the Erice, Intl. School on Neural Nets “Eduardo R. Caianiello” on Granular Computing, 2010, and Intl.

School on Mathematics “Guido Stampacchia” on Optimization, Machine Learning and Bioinformatics, 2011

Lecturer at the ETH Zurich, Switzerland, October 2010 and March 2014, Korea University Seoul and at the KAIST

Daejeon, South Korea, February 2012, Chongqing University, China, 2014, University of Parma, 2014

Tutor of more than 15 Ph.D. students and of more than 150 Degree Thesis in Electrical and Electronic Engineering

Member of the Italian Conference of Deans of the Engineering Faculties (2001-2008)

INTERNATIONAL APPOINTMENTS

Foreign Member Royal Academy of Doctors, Barcelona, Spain, February 24, 2004 - todote

Gold Medal “Henry Coanda”, Inventica, 2002, Rumanian Academy of Science, Iasi, Rumania, September 2002, for his leadership in the field of Neural Networks and Fuzzy Systems

Award for Leadership in Research, AEDEM 2001

Governor of INNS, 2000-2002; Secretary of INNS 2003 and 2004; Governor 2004-2012; Chair of Italy Regional SIG of INNS since 1997

Italy Repr. Intl. Associations AMSE (Association for Modelling an Simulation in Enterprise and Engineering), Lyon, France and SIGEF (Intl. Association for Fuzzy Management), Spain

President of SIREN, Salerno, Italy, 2008, former Member St. and Sc. Committee, organizer of the Italian Workshop on Neural Networks (WIRN), Chair WIRN 2008-2015

Plenary Lecturer ISEM Tokyo, Japan, 2001; Keynote Speaker MS’2002 Girona, Spain, 2002; MS20010, Barcelona,

Spain, 2010; Lecturer IJCNN 2001, Washington DC, USA; Tutorial Speaker IJCNN 1999 and 2001, SPIE Conference, Baltimore, Maryland, May 2013; Washington DC, USA; Tutorial Lect. WCCI 2014 Beijing, China; Tutorial Lect. EANN 2014, Sofia, Bulgaria

Editorial Board Member International Conferences COMPUMAG and CEFC, IEEE Magnetics Society
Program Committee Member IJCNN (Intl. Joint INNS-IEEE Conference on Neural Networks) 1999-2012
Tutorial Co-Chair IJCNN 1999, 2000, 2001, 2003, 2005; INNS Liaison IJCNN 2000, IJCNN 2010
Nomination Committee Chair, INNS, 2010-2012
Program Committee Member IEEE-ICIA 2008, China
European Liaison IEEE IJCNN Barcelona, Spain, 2010
International Liaison IEEE IJCNN Dallas, Usa, 2013
Plenary Chair, IEEE-IJCNN 2015

CHAIR/ CO-CHAIR for International Conferences

AMSE-ISIS'97 (International Symposium on Intelligent Systems), September 1997
AEDEM2001 (Engineering Aspects of New Economy), 2001
AMSE-MCMS2003 (Mediterranean Conf. on Modelling and Simulation), 2003
SIGEF 2004 (Information Technologies for the Fuzzy Economy), 2004
ICIA-IEEE South Korea 2007
Vice-Chairman Conference AMSE-ISIS'98, Minsk, Belarus
Member Advisory Committee SSCC'98 Durban, South Africa, 1998
WIRN 2009-2017, Vietri S/M, Salerno; NoLisp (NonLinear Signal Processing) 2015, Vietri S/M, Salerno, 18-19, May 2015; IEEE International Conference on Emerging Technologies & Factory Automation, Cagliari, Italy, 2013
Referee for Book Chapters, Referee for Encyclopaedia of Biomedical Engineering, M. Akay Editor, Wiley, June 2006

EDITORIAL BOARD MEMBER/ASSOCIATE EDITOR FOR THE JOURNALS

Neural Networks

Intl. J. of Neural Systems

Renewable Energy

Intelligent Decision Technology (end 2016)

Int. J. on Chaos Theory and Applications

Int. J. of Computer, Systems and Signal

Int. J. of Information Acquisition

Int. J. of Computing & Inform. Technology

Recent Patents on Computer Science

Applied Comput. Intell. and Soft Computing

AMSE Journals

Fuzzy Economic Review

PROGRAM/SCIENTIFIC COMMITTEE MEMBER for International Conferences

More than 50

INTERNATIONAL RESEARCH ACTIVITIES

Visiting Researcher Max-Planck Institut fuer Plasmaphysik, NET Team, Asdex-Upgrade, ITER Joint Team, Garching bei Muenchen, Germany, 1993-95, 1999, and 2001

Member Scientific Investigators Program ADNI

INVITED/PLENARY LECTURES (among others):

Plenary Opening Lect. Int. Symp. on Neural Networks and Fuzzy Systems, AMSE-SYS '95, Czech Republic

Invited Speaker SPIE's 3165 Conf. on Appl. of Soft Comp., San Diego, CA, July 1997, Intl. Conf. on Simul. and

Modelling, Las Palmas, Canary Islands, 2000, ISEM, Tokyo, Japan, 2001, Intl. Conf. on Simul. and Modelling, Girona, Spain, June 2001, and Terni, 2007

It. C. of Electrical Engineers Researchers, Lecce, 2009

Tutorial Lect. WCCI 2014 Beijing, China, 2014

Founder and "Award Committee Chair" Int. Sc. Prize "E.R. Caianiello"

Representative of University Mediterranea in the Joint Committee University- National Council of Researches (2002)

Member St. Comm. Proj. CNR-Poli d'Innovazione, Regione Calabria, 2010 -2014.

COORDINATION OF RESEARCH ACTIVITIES

1) Senior Researcher Responsible for the ENEA/EURATOM/CREATE scientific agreement on "Plasma Disruption Prediction with Fuzzy Neural Techniques", ASDEX-Upgrade, Max-Planck Institut fuer Plasmaphysik, Garching bei Muenchen, Germany

2) Senior Researcher Responsible for the ENEA/EURATOM/CREATE scientific agreement on "Plasma Diagnostics and Sensor Optimization with Neuro-Fuzzy Systems", 2000-2001

3) Senior Researcher Responsible for the ENEA/EURATOM/CREATE scientific agreement on "Disruption Prediction in JET", JET, Abingdon, UK, 2002

4) Leader Res. Proj. EURATOM-ENEA-CREATE Association, Magnetic Diagnostics, "Gaps Estimation in ITER",

ITER, 2003

- 5) Research Project Leader European Project, “Monitoring of Urban Data Pollution with Neural Networks”, SMAURN 1997
- 6) Local Unity Leader Italian Res. Proj. MURST, “Multidimensional Data Analysis with Neural Networks: Electromagnetics”, PRIN 1998
- 7) Local Unity Leader Italian Res. Proj. MURST, “Environmental Data Processing with Neural Networks”, PRIN 2000
- 8) Resp. for Unit Research of the Nat. Proj. MIUR/PRIN (Research Projects of National Interest) “MADEND” 2002 (Neural Networks and Circuits for Non Destructive Testing in Industry)
- 9) Local Unity Leader Italian Research Project MIUR, “Methods and Appl. of Non-Destructive Electromagnetics Diagnostics, AMDE”, PRIN 2004
- 10) PRIT Projects, Univ. of Reggio Calabria, 2003-2006
- 11) Sc. Leader and Coordinator of Nat. Project on the Generation of University Spin-Off, “A Neuro-Fuzzy Chip for the Processing of Urban Pollution Data”, MIUR, Dipartimento per lo sviluppo e il potenziamento dell’attività di Ricerca, through the “Parco Scientifico e Tecnologico della Calabria”, CALPARK, March 2003, (154.937,00 €)
- 12) Sc. Leader and Coordinator of National Research Project “Integrated Systems for Monitoring and Control of Electromagnetic Pollution”, funded by the Italian Ministry of Environment, January 2003, (153.387,00 €);
- 13) Unity Leader Project Italian Ministry of Health on “EEG Artefact Reduction”, 2014
- 14) Scientific Coordinator (2) MIUR Projects “Messaggeri della Conoscenza”, with Imperial College, London, UK and CERN, Geneva, CH, 2012-2014
- 15) Leader EU Sub-Program Application n°17, “Computational Intelligence Methods for Biomedical ICT in Neurological Diseases” within “Connect2SEA”, 7th EU Framework Program, 2015

Partner of the VI Framework Program EU project ExCoSys, on Engineering Systems of Exponential Complexity, MAGSET, MAGnetic Sensor for Tachymetry, and Horizon 2020 EU Project MindGym

Referee for Swiss National Research Foundation, 1998; Shota Rustaveli Georgian Academy of Science, 2011-2015; University of Padua, 2008-2015-2017; PRIN Projects, MIUR; Marie Curie Program 2013; James Cook Research Fellowships, New Zealand, 2013; SIR, MIUR, 2014-2015; EU COST 2017; ASI; CIVR; CILEA; Polytechnic of Turin, (“Mettili in rete la tua idea di ricerca”); Reprise, Italy; National Science Center, Poland, 2018; Pazy Foundation, Israel, 2018; Netherland National Scientific Foundation, 2019.