CURRICULUM VITAE   **Prepared March 22, 2017**

Marco Cococcioni, PhD

Born in Fermo, Ascoli Piceno (Italy),
on 11 February 1976.
Married, three sons.

Associate Professor

Affiliation

Department of Information Engineering
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Positions held

Nov '16 - (pres)	Associate Professor at the Department of Information Engineering, School of Engineering, University of Pisa, Italy
Dec '11 - Oct '16	Assistant Professor at the Department of Information Engineering, School of Engineering, University of Pisa, Italy
Jan '10 - Dec '11	Senior Visiting Scientist at the NATO Undersea Research Centre, La Spezia

Post-doctoral studies

Jul '09/Dec '09	Six-month research fellowship funded by Ferrari s.p.a. Research topic: "Automatic Classification of Driving Styles Using Computational Intelligence Techniques"
Sept '08/Feb '09	Six-month research fellowship funded by Dipartimento di Ingegneria Meccanica, Nucleare e della Produzione, University of Pisa. Research topic: "Driving style recognition using computational intelligent methods"
Aug '04/Jul '08	Four-year post-doc research assistantship at Dipartimento di Ingegneria dell'Informazione, University of Pisa. Research topic: "Developing of fuzzy systems for multiple classifier fusion"

Education

April 23, '04	PhD degree in Computer Engineering. Dissertation on "New approaches to fuzzy modeling and multiple classifier fusion". Advisors: Prof. Ing. Beatrice Lazzerini and Prof. Ing. Graziano Frosini
2001-2003	PhD student in Computer Engineering at Dipartimento di Ingegneria dell'Informazione, University of Pisa, XVI cycle
October 26, '01	Diploma degree (Diploma di Licenza), Sant'Anna School of Advanced Studies (http://www.sssup.it), Pisa, Class of Experimental Sciences, with full marks *cum laude* and a dissertation titled "Statistical Pattern Recognition"
November '00	Licence to practice as a Professional Engineer
October 25, '00	Laurea degree (M.Eng equivalent) in Computer Engineering, specialization in Industrial Automation and Robotics, University of Pisa, with full marks (*cum laude*) and a dissertation titled "Analysis of electromagnetic fields in systems with moving conductors, using hybrid method Finite Element Method (FEM)/Method of Moments (MoM)". Advisors: prof. Ing. Antonino Musolino and prof. Ing. Marco Raugi
1995/2000	Student in computer engineering at the University of Pisa. At the same time, student of the Class of Experimental Sciences at Sant'Anna School of Advanced Study (www.sssup.it), Pisa (1996/2001)

Achievements (Scholarships, Fellowships and Awards)

2015	Obtained the tenure on 3 September 2015 ("ricercatore confermato")
2015	Obtained the National Scientific Habilitation: Dr Cococcioni is eligible to serve as an Associate Professor (habilitated on 23 Jan 2015)
2014	NATO Scientific Achievement Award. Awarded by the NATO Science and Technology Organization for his contribution to the development of decision support systems for the maritime domain.
2014	Recipient of an ERASMUS Staff Mobility for Teaching Assignment (STA) scholarship, for giving a series of seminars at Universite' Pierre et Marie Curie, Paris (France).
2013	Recipient of a seed fund for starting a collaboration with the Massachusetts Institute of Technology, Boston, within the MISTI-Italy program, sponsored by University of Pisa. MIT contact: prof. Pierre FJ Lermusiaux. Research Topic: *Novel Applications of Computational Intelligence to Ocean Science and Engineering*
2012	Elevated to Senior Member grade, IEEE Society (only 8% of the 400K+ IEEE members are Senior members).
2010	Selected as Senior Visiting Scientist at the NATO CMRE research centre, La Spezia
2009	Winner of one out of six research fellowships granted by Ferrari spa (www.ferrari.com), after an international selection process with 153 applicants.
2008	Winner of a six-month research fellowship, funded by Dipartimento di Ingegneria Meccanica, Nucleare e della Produzione, Pisa
2006	Winner of a three-month summer research assistantship at the NATO Undersea Research Centre, La Spezia, Italy
2004	Winner of a two-year post-doc research fellowship at the Dipartimento di Ingegneria dell'Informazione, University of Pisa, granted by the Italian Ministry of Education, University and Research in conjunction with the University of Pisa and the Dipartimento di Ingegneria dell'Informazione. In July 2006 the fellowship has been extended to July 2008
2001	Winner of a prize for outstanding academic performance, granted by the University of Pisa (full marks degree achieved in a relatively short period of time)
2000	Winner of a three-year doctoral fellowship at Dipartimento di Ingegneria dell'Informazione, University of Pisa, granted by the Italian Ministry of Education, University and Research
1997	Winner of a three-week scholarship to study english in Malta, granted by the Italian Ministry of Foreign Affairs in conjunction with the Ministry of Foreign Affairs of Malta, after a national competition
1996	Winner of one out of six five-year scholarships to study computer engineering at the Sant'Anna School of Advanced Studies, Pisa, ranking fourth over about three hundred participants from all over Italy

Research Interests

Macro Areas	Computational Intelligence (evolutionary and neuro/fuzzy systems), Pattern Recognition, Machine Learning, Decision Support Systems
Micro Areas	Neuro-Fuzzy Systems, Multi-Objective Evolutionary Optimization, One-Class Classifiers, Clustering.
Ongoing research topics	Lexico-graphic Multi-Objective Linear Programming, Ocean Sampling using Fleets of Underwater Gliders, Surface Reconstruction from Unorganized Point Clouds using Fuzzy Rules, Performance Assessment of One-Class Classifiers.

Past research topics	**Oceanic Applications:** Maritime Decision Support Systems, Ocean Color Problem, Oil Spill Detection, Bathymetry Estimation from Space, counter-piracy in Gulf of Aden, Optimal Deployment of Sonobuoys Networks)
	Machanical Applications: Fault Detection in Mechanical Devises (rolling element bearings), Driving Style Recognition and Characterization
	Renewable Energy Applications: Energy Production Forecasting in Photovoltaic Systems
	Medical Applications: Computer-Aided Detection and Diagnosis of Lung Cancer
	Miscellanea: Wireless Sensor Networks, Web Users Profiling, Electronic Nose-based Olive Oil Quality Recognition
Other research areas he is interested in	Numerical Linear Algebra, Signal and Image Processing, Multiresolution Analysis (Wavelets), GP-GPU Computing, Computational Geometry, Computer Graphics.

Invited Talks

2014	Two-class classification tasks: A novel way to assess the performance of one-class classifiers using unlabeled data, given at MIT, Boston, 22 August (invited by P.F. Lermusiaux)
2014	Optimal and Adaptive Sampling of Ocean Fields using Fleets of Underwater Gliders: Some Recent Advancements, given at MIT, Boston, 19 August (invited by P.F. Lermusiaux)
2014	Optimal and Adaptive Sampling of Ocean Fields using Fleets of Underwater Gliders: Some Recent Advancements, given at Princeton University, Princeton, NJ, 15 August (invited by N. E. Leonard)
2014	Adaptive Sampling of Ocean Fields using Fleets of Underwater Gliders: a new Approach Based on Cluster Analysis, given at ISIR Institute, Univ. Pierre et Marie Curie, Paris, 8 July (invited by S. Doncieux)
2014	Machine Learning Meets Robotics: Fuzzy Rule-Based Classifiers with Applications to Robotics, given at ISIR Institute, Univ. Pierre et Marie Curie, Paris, 9 July (invited by S. Doncieux)
2014	Adaptive Sampling of Ocean Fields using Fleets of Underwater Gliders: An Overview of Recent Advancements, given at LOCEAN Lab, Univ. Pierre et Marie Curie, Paris, 8 July (invited by L. Mortier)
2011	Maritime Decision Support Systems, given at University of the German Federal Armed Forces, Munich, 20 June (invited, together with R. Grasso, by Prof. S. Pickl)

Attended conferences and workshops (* *if presenting a work*)

2016*	2016 NATO Conference on Decision Support and Risk Assessment for Operational Effectiveness, NATO STO CMRE La Spezia, 26-28 Jul, Italy
2016*	Second Int. Conference and Summer School on Numerical Computations: Theory and Algorithms (NUMTA'16), Pizzo Calabro, 19-25 Jun, Italy
2016*	2016 ACM Symposium on Applied Computing, 3-8 Apr, Pisa, Italy
2015*	2015 NATO Workshop on Decision Support and Risk Assessment for Asset Planning, NATO STO CMRE, 23-25 Sep, NATO STO CMRE, La Spezia, Italy
2015*	IEEE MTS/OCEANS'15, 18-21 May, Genova, Italy
2014*	Second NATO Workshop on Military Applications of Underwater Glider Technology, NATO STO CMRE, 7-9 Oct, La Spezia, Italy
2014*	MyOcean Science Days 2014, 22-24 Sept, Toulouse, France
2013*	First NATO Workshop on Military Applications of Underwater Glider Technology, NATO STO CMRE, 8-10 Oct, La Spezia, Italy
2013*	MTS/IEEE OCEANS'13, 11-14 Jun, Bergen, Norway
2011*	IEEE Symposium Series on Computational Intelligence, 11-15 Apr, Paris, France

2010*	Maritime Rapid Environmental Assessment Conference, Villa Marigola, Lerici, Italy
2009	9th International Conference on Intelligent Systems Design and Applications, (ISDA'09), 30 Nov - 2 Dec, Pisa, Italy
2009*	8th International Conference on Vibrations in Rotating Machines (SIRM'09), 23-25 Feb, Vienna, Austria
2007	Symposium of the European Association of Remote Sensing Laboratories (EARSeL), 7-8 Jun, Bolzano, Italy
2007	VI Conference on Matlab for Financial Applications, 22 May, Milan, Italy
2005*	International Workshop of Fuzzy Logic and Applications (WILF'05), 15-17 September, Crema, Italy
2005*	Workshop on Evolutionary Computation (GSICE'05), AI*IA 9th Congress, 20 Sep, Milan, Italy
2003	MERIS User Workshop 2003, 10-13 Nov, Frascati, Italy
2003	2003 conference of the European Society for Fuzzy Logic and Technology (EUSFLAT'03), 10-12 September, Zittau, Germany
2002*	2002 Annual Meeting of the North American Fuzzy Information Processing Society (NAFIPS'02), 27-29 Jun, New Orleans, USA

Attended Summer Schools and Seminars

Jun 2016	2nd Int. Confonference and Summer School on Numerical Computations: Theory and Algorithms (NUMTA'16), Pizzo Calabro (Italy)
April 2010	NATO RTO lecture series "Multisensor Fusion: Advanced Methodologies and Applications", NURC, La Spezia, Italy
November 2008	Seminar on "Data Mining and Soft Computing", taught by prof. Francisco Herrera, University of Granada, Pisa, Italy
October 2008	Seminar on Processing of Geo-spatial data with IDL-ENVI and integration with GIS applications, IIT Visual Solutions, Pisa, Italy
October 2003	National doctoral school in computer engineering 2003, held in Siena (Italy). Tutorials on Grid Computing, Bioinformatics, Self-Healing Systems, European finance opportunities
March 2003	Metaheuristics Networks International Summer School, Tenerife (Spain). Tutorials on Genetic Algorithms, Ant Colony Optimization, Tabù Search, Multi-Objective Optimization Techniques, Iterated Local Search
November 2002	National school in computer engineering 2002, held in Volterra (Italy). Tutorials on Real-time systems, software engineering, embedded systems, NP-Hard problems
February 2002	National doctoral school in telecommunications 2002, held in Naples (Italy). Tutorial on multimedia databases

Teaching

2016/2017	Lecturer of Object-Oriented Programming, School of Engineering, first year Computer Engineering students, Pisa, 60h, 300+ students
2016/2017	Lecturer of Introduction to Computer Programming using C, School of Engineering, first year Biomedical Engineering students, Pisa, 40h, 300+ students
2016/2017	Lecturer of Introduction to Programming in Matlab/Octave for Risk Management, International Master on Risk Management, School of Economics, Pisa, 24h, 8 students
2015/2016	Lecturer of Object-Oriented Programming, School of Engineering, Pisa, 60h, 300+ students
2015/2016	Lecturer of Introduction to Programming in Matlab/Octave for Risk Management, International Master on Risk Management, School of Economics, Pisa, 24h, 10 students
2014/2015	Lecturer of Object-Oriented Programming, School of Engineering, Pisa, 60h, 300+ students
2014/2015	Lecturer of Introduction to Programming in Matlab/Octave for Risk Management, International Master on Risk Management, School of Economics, Pisa, 20h, 8 students

2013/2014	Lecturer of the Object-Oriented Programming, School of Engineering, Pisa, 60h, 180 students
2013/2014	Lecturer of Introduction to Programming in Matlab/Octave for Risk Management, International Master on Risk Management, School of Economics, Pisa, 15h, 8 students
2012/2013	Lecturer of the Object-Oriented Programming, School of Engineering, Pisa, 60h, 180 students
2007/2008	Assistant lecturer of Intelligent Systems, School of Engineering, Pisa, 4h, 40 students
2006/2007	Lecturer of Multi-Objective Evolutionary Algorithms, School of Engineering, Pisa, 20h, 20 students
2005/2006	Assistant Lecturer of Intelligent Systems, School of Engineering, Pisa, 30h, 40 students
2004/2005	Assistant Lecturer of Intelligent Systems, Pisa School of Engineering, Pisa, 30h, 40 students
2003/2004	Assistant Lecturer of Intelligent Systems, School of Engineering, Pisa, 30h, 40 students
2002/2003	Assistant Lecturer of Decision Support Intelligent Systems, School of Engineering, Pisa, 30h, 40 students
2001/2002	Assistant Lecturer of Knowledge Engineering and Expert Systems, School of Engineering, Pisa, 30h, 40 students
2000/2001	Assistant lecturer of Computer Engineering Fundamentals II, School of Engineering, Pisa, 30h, 100 students

Service to the research community

Dr Cococcioni serves for the following journals:

- (since 2013) International Journal of Strategic Decision Sciences (IGI Global): *Associate Editor*. Journal indexed by DBLP, INSPEC, Google Scholar, etc.

- (since 2013) International Journal of Applied Pattern Recognition (Inderscience): *Editorial Board Member*.

- (since 2013) International Journal of Advanced Intelligence Paradigms (Inderscience): *Editorial Board Member*. Journal indexed by Scopus, DBLP, INSPEC, Google Scholar, ACM Digital Library, etc.

- (since 2013) International Journal of Enterprise Information Systems (IGI Global): *Editorial Board Member*. Journal indexed by Scopus, DBLP, INSPEC, Google Scholar, etc.

- (since 2011) International Journal of Knowledge-Based and Intelligent Engineering Systems (IOS press): *Review Board Member*. Journal indexed by Scopus, DBLP, etc.

He is a **co-chair** of the 2016 IEEE Symposium on Computational Intelligence for Security and Defense Applications (CISDA'16), to be held in Athens, Greece, 6-9 December 2016.
In addition, he has also co-chaired the following ***special sessions***:

- *"Computational Intelligence for Sustainable Computing"*, within IFSA '13;

- *"Computational Intelligence in Support of Maritime Operations"*, within CISDA '11;

- *"Computational Intelligence for Fault Diagnosis and Prognosis"*, within KES '11;

- *"Computational Intelligence for Environmental Monitoring and Renewable Energies"*, within ISDA '11.

In the past he has served as ***local organizer*** for two conferences:

- the 2010 Maritime Rapid Environmental Assessment conference, held in Lerici (Italy) on 18-22 October 2010

- the 9th International Conference on Intelligent Systems Design and Applications (ISDA '09), held in Pisa in 2009.

He has been a ***Scientific Committee member*** of the following international events:
IEEE CICA'15, IBICA'15, IEEE IAS'15, ICIM'14, ECC'14, eKNOW('16','15','14','13), IEEE
FSKD('12), FUZZ-IEEE('11), IEEE CISDA('16,'12,'11), KES('11), EVO-Risk('15,'14,'13,'11)
SoCPaR('13, '12, '11), SOCO('13, '12, '11), ICIM'14, IEEE GEFS('13, '11), IEEE ISDA('15, '13,
'12, '11, '10, '09), INISTA('13, '12, '11, '10), HIS('15,'13,'12), WICT('12), and IEEE-SMC('10).

He has served as a reviewer for the following ***journals:***
IEEE Trans. on Fuzzy Systems, IEEE Trans. on Evolutionary Computation, IEEE Trans. on
Systems, Man, and Cybernetics, IEEE Trans. on Industrial Informatics, Pattern Recognition
(Elsevier), Journal of Artificial Evolution and Applications (Hindawi), Applied Soft Computing
(Elsevier), Information Sciences (Elsevier), Optics and Lasers in Engineering (Elsevier), Remote
Sensing of Environment (Elsevier), Journal of Real-Time Image Processing (Springer); Remote
Sensing Letters (Taylor and Francis)

for the following ***international conferences:***
FUZZ-IEEE('15,'11,'10,'09), IEEE HIS('15,'13), IBICA'15, eKnow('13), KES'11, SoC-
PaR('13,'11), SOCO'11, IEEE SSCI ('15,'13,'10), MREA'10, IEEE ISDA('13,'11,'10, '09), IEEE
SMC('15,'10,'09), INISTA'10, IEEE ICANN'09, EUSIPCO'07, M-CSC'07, M-SIP'07, PerSeNS'05,
HICSS-38'04;

and for the following ***book chapters:***
"Computational Intelligence in Expensive Optimization Problems", Springer Series on Studies in
Evolutionary Learning and Optimization, 2009
"Recent Advances in Computational Intelligence in Defense and Security", Spinger Series on Stud-
ies in Computational Intelligence, in press
Dr. Cococcioni is the creator and the maintainer of the EMOFRBSs web page
(http://www.iet.unipi.it/m.cococcioni/emofrbss.html), which collects references related to the evo-
lutionary multiobjective optimization of fuzzy rule-based systems.
So far, the page has been cited by a number of conference and journal papers.

Memberships and Affiliations

Dr Cococcioni is a **Senior Member** of IEEE and a member of the following IEEE societies:
IEEE Computational Intelligence Society, IEEE Oceanic Engineering Society and International
Association for Pattern Recognition. He also is a member of the Association for Computing
Machinery (ACM) society.

Services as a co-supervisor/work coordinator

So far, Dr Cococcioni has co-supervised, together with Prof. Beatrice
Lazzerini and Prof. Francesco Marcelloni, 3 PhD dissertations, 20 MS the-
ses (1 in progress) and 4 BA theses. Some of them can be found here
http://scholar.google.it/scholar?start=0&q=%22Cococcioni+relatore%22&hl=it&as_sdt=2000

Language Skills

Italian	mother tongue
English	fluent (two-years spent in an international centre (2010-2011), two annual courses attended at Sant'Anna School of Advanced Study (1999-2000), and a three-week intensive course attended in Malta)
French	scholar (one annual course attended at Sant'Anna School of Advanced Study)

Computer Skills

Programming languages	C and C++ (advanced, since 1992), Assembler x86 (advanced), Java (advanced), C Sharp (avanced), Prolog (basic), Perl (basic), Python (basic), SQL(advanced)

Operating systems	Windows, Linux, Unix, OSx, Open VMS
Math packages	Matlab (advanced, since 1997), R (fair), Stata (fair), IDL (fair), Maple (basic), Julia (fair), Mathematica (fair)
Typesetting packages	Microsoft Word (advanced), Microsoft PowerPoint (advanced), HTML (advanced), Latex (advanced)
Spreadsheet software	Microsoft Excel (advanced)
Development tools	Microsoft Visual Studio 15.0 (advanced)
Database	MySql (advanced)

Dr Cococcioni regularly contributes to the Matlab File Exchange (the Matlab official collection of user-contributed code). He is ranked in the **top 5%** of the contributors: http://www.mathworks.com/matlabcentral/fileexchange/authors/20595
Two of his submissions have been selected as **"Pick of the Week"** by Mathworks, in 2009 and 2015, respectively.

Publications

According to Google Scholar (as of 22 March September 2017), Dr Cococcioni's h-idenx is 12 (524 citations).

International Journals (accepted/published)

J17. Ferri, G., **Cococcioni, M.**, and Alvarez, A. *"Mission Planning and Decision Support for Underwater Glider Networks: a Sampling on-Demand Approach"*, [MDPI] Sensors, vol. 16, no.1, pp. 28, 2015, `http://dx.doi.org/10.3390/s16010028`

J16. Grasso, R., **Cococcioni, M.**, Mourre, B., Osler, J. and Chiggiato, J. *"A Decision Support System for Optimal Deployment of Sonobuoy Networks based on Sea Current Forecasts and Multi-Objective Evolutionary Optimization"*, [ELSEVIER] Expert Systems with Applications, vol. 40, pp. 3886-3899, 2013, `http://dx.doi.org/10.1016/j.eswa.2012.12.080`

J15. **Cococcioni, M.**, Lazzerini, B., and Volpi, S. L., *"Robust Diagnosis of Rolling Element Bearings based on Classification Techniques"*, IEEE Transactions on Industrial Informatics, vol. 9, no. 4, pp.2256-2263, 2013, `http://dx.doi.org/10.1109/TII.2012.2231084`

J14. **Cococcioni, M.**, D'Andrea, E. and Lazzerini, B., *"One day-ahead forecasting of energy production in solar photovoltaic installations: an empirical study"*, [IOS PRESS] Intelligent Decision Technologies: an International Journal (IDT), vol. 6, no. 3, pp. 197-210, 2012, `http://dx.doi.org/10.3233/IDT-2012-0136`

J13. **Cococcioni, M.**, Corucci, L., Masini, A., and Nardelli, F., *"SVME: An Ensemble of Support Vector Machines for Detecting Oil Spills from Full Resolution MODIS Images"*, [SPRINGER] Ocean Dynamics, vol. 62, no. 3, pp.449-467, 2012, `http://dx.doi.org/10.1007/s10236-011-0510-8`

J12. Grasso, R., **Cococcioni, M.**, Mourre, B., Chiggiato, J., and Rixen, M., *"A Maritime Decision Support System to Assess Risk in the Presence of Environmental Uncertainties: the REP10 Experiment"*, [SPRINGER] Ocean Dynamics, vol. 62, no. 3, pp.469-493, 2012, `http://dx.doi.org/10.1007/s10236-011-0512-6`

J11. Antonelli, M., **Cococcioni, M.**, Lazzerini, B., and Marcelloni, F., *"Computer-Aided Detection of Lung Nodules based on Decision Fusion Techniques"*, [SPRINGER] Pattern Analysis and Applications, vol. 14, no. 3, pp. 295-310, 2011, `http://dx.doi.org/10.1007/s10044-011-0219-9`

J10. Corucci. L, Masini A., and **Cococcioni, M.**, *"Approaching Bathymetry Estimation from High Resolution Multi-Spectral Satellite Images using a Neuro-Fuzzy Technique"*, [SPIE] Journal of Applied Remote Sensing, vol. 5, no. 053515, pp. 1-15, 2011, `http://dx.doi.org/10.1117/1.3569125`

J09. Corucci, L., Nardelli, F., and **Cococcioni, M.** *"Detecting Oil Spills from Space"*, SPIE Newsroom, pp. 1-2, 2010, DOI:`http://dx.doi.org/10.1117/2.1201009.003254` [invited contribution]

J08. Grasso, R., **Cococcioni, M.**, Rixen, M. and Baldacci, A., *"A Decision Support Architecture for Maritime Operations Exploiting Multiple METOC Centres and Uncertainty"*, [IGI GLOBAL] International Journal of Strategic Decision Sciences, vol. 2, no. 1, pp. 1-27, 2011, `http://dx.doi.org/10.4018/jsds.2011010101`

J07. Grasso, R., **Cococcioni, M.**, Trees, C.C., Rixen, M. and Baldacci, A., *"A Generic Decision Support Architecture for Maritime Operations"*, [INDERSCIENCE] International Journal of Intelligent Defence Support Systems, vol. 3, no. 3-4, pp. 281-304, 2010, `http://dx.doi.org/10.1504/IJIDSS.2010.037094`

J06. **Cococcioni, M.**, Lazzerini, B., and Marcelloni, F., *"On Reducing Computational Overhead in Multi-Objective Genetic Takagi-Sugeno Fuzzy Systems"*, [ELSEVIER] Applied Soft Computing , vol. 11, no. 1, pp. 675-688, 2011, `http://dx.doi.org/10.1016/j.asoc.2009.12.028`

J05. Bombara, G., **Cococcioni, M.**, Lazzerini, B., and Marcelloni, F., *"S-NNLS: an Efficient Non-Negative Least Squares Algorithm for Sequential Data"*, [WILEY] International Journal for Numerical Methods in Biomedical Engineering, vol. 27, no. 5, pp.770-773, 2011, `http://dx.doi.org/10.1002/cnm.1331`

J04. **Cococcioni, M.**, Corsini, G., Lazzerini, B., and Marcelloni, F., *"Solving the Ocean Color Inverse Problem by Using Evolutionary Multi-Objective Optimization of Neuro-Fuzzy Systems"*, [IOS PRESS] Int. J. of Knowledge-based and Intelligent Engineering Systems (KES), vol. 12, no. 5-6, pp. 339-355, 2008

J03. **Cococcioni, M.**, Ducange, P., Lazzerini, B., and Marcelloni, F., *"A Pareto-based Multi-Objective Evolutionary Approach to the Identification of Mamdani Fuzzy Systems"*, [SPRINGER] Soft Computing, vol. 11, no. 11, pp. 1013-1031, May 2007, `http://dx.doi.org/10.1007/s00500-007-0150-6`

J02. **Cococcioni, M.**, Lazzerini, B., and Marcelloni, F., *"Estimating the Concentration of Optically Active Constituents of Sea Water by Takagi-Sugeno Models with Quadratic Rule Consequents"*, [ELSEVIER] Pattern Recognition, vol. 40, no. 10, pp. 2846-2860, October 2007, `http://dx.doi.org/10.1016/j.patcog.2007.01.015`

J01. **Cococcioni, M.**, Corsini, G., Lazzerini, B., and Marcelloni, F., *"Approaching the ocean color problem using fuzzy rules"*, IEEE Transactions on Systems, Man and Cybernetics - part B: Cyb., vol. 34, no. 3, pp. 1360-1373, 2004, `http://dx.doi.org/10.1109/TSMCB.2003.822959`

Book Chapters (accepted/published)

BC4. **Cococcioni, M.**, *"mspMEA: the Microcones Separation Parallel Multiobjective Evolutionary Algorithm and its Application to Fuzzy Rule-Based Ship Classification"*, in Recent Advances in Computational Intelligence in Defense and Security, Springer series on Studies in Computational Intelligence, Editors: Abielmona, R., Falcon, R., Zincir-Heywood, N. and Abbass, H., vol. 621, pp. 445-465, 2015, `http://dx.doi.org/10.1007/978-3-319-26450-9_17`

BC3. Grasso, R., **Cococcioni, M.**, Rixen, M. and Baldacci, A., *"A Decision Support Architecture for Maritime Operations Exploiting Multiple METOC Centres and Uncertainty"*, in Management Theories and Strategic Practices for Decision Making, IGI Global, 2013, `http://dx.doi.org/10.4018/978-1-4666-2473-3`

BC2. **Cococcioni, M.**, Lazzerini, B., and Marcelloni, F., *"Towards Efficient Takagi-Sugeno Multi-objective Genetic Fuzzy Systems for High Dimensional Problems"*, in Computational Intelligence in Expensive Optimization Problems, Springer Series on Studies in Evolutionary Learning and Optimization, Editors: Tenne, Y. and Goh, C.-K., 2009, pp. 397-422, `http://dx.doi.org/10.1007/978-3-642-10701-6_16`

BC1. **Cococcioni, M.**, Corsini, G., Lazzerini, B., and Marcelloni, F., *"On the use of neural networks and fuzzy rules in the ocean colour analysis"*, in Analysis and Classification of Remotely Sensed Hyperspectral Images, ETS, Pisa, pp. 89-107, 2004

International Conferences

C53. **Cococcioni, M.**, "Multi-Objective Optimization for Decision Support and Risk Assessment in Maritime Asset Allocation Problems," in Proc. of NATO Conference on Decision Support and Risk Assessment for Operational Effectiveness, 26-28 Jul 2016, NATO STO CMRE, La Spezia, Italy, 2016

C52. **Cococcioni, M.**, Pappalardo, M. and Sergeyev, Y.D., "Towards Lexicographic Multi-Objective Linear Programming using Grossone Methodology," in AIP Conference Proceedings, vol. 1776, (2nd Int. Conf. on Numerical Computations: Theory and Algorithms (NUMTA'16), Pizzo Calabro, June 19-25), 2016 `http://dx.doi.org/10.1063/1.4965404`

C51. **Cococcioni, M.**, "Computing with Infinite and Infitesimal Numbers in Matlab easily: The Grossone-Light Toolbox," in Proc. of the 2nd Int. Conf. on Numerical Computations: Theory and Algorithms (NUMTA'16), Pizzo Calabro (Italy), 19-25 Jun 2016

C50. Pistolesi, F., Lazzerini, B. and **Cococcioni, M.**, "A Semi-Supervised Learning-Aided Evolutionary Approach to Occupational Safety Improvement," in Proc. of the 2016 IEEE Congress on Evolutionary Computation (CEC'16), held within the 2016 IEEE World Congress on Computational Intelligence (WCCI'16), 24-29 July, Vancouver, Canada, pp. 3695-3701, 2016 `http://dx.doi.org/10.1109/CEC.2016.7744257`

C49. **Cococcioni, M.**, Lazzerini, B., Marcelloni, F., and Pistolesi, F., "Solving the Environmental Economic Dispatch Problem with Prohibited Operating Zones in Microgrids using NSGA-II and TOPSIS," in Proc. of the 2016 ACM Symposium on Applied Computing, Pisa, April 04-08, 2016, pp. 2154-2157 `http://dx.doi.org/10.1145/2851613.2853130`

C48. **Cococcioni, M.**, *"Challenges in Multi-Objective Evolutionary Optimization for Asset Planning Decision Support"*, 2015 Workshop on Decision Support and Risk Assessment for Asset Planning (DeSRAAP'15), La Spezia (Italy), 23-25 September 2015

C47. **Cococcioni, M.**, Lazzerini, B., and Lermusiaux P.F.J., *"Adaptive Sampling Using Fleets of Underwater Gliders in the Presence of Fixed Buoys using a Constrained Clustering Algorithm"*, in Proc. of IEEE OCEANS'15, Genova (Italy), May 28-21 2015, pp. 1-6, `http://dx.doi.org/10.1109/OCEANS-Genova.2015.7271446`

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Pisa, March 22, 2017   Dr Marco Cococcioni