

PERSONAL INFORMATION**Angelo Ciaramella**

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 University of Naples “Parthenope” (Università degli Studi di Napoli “Parthenope”)

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 Gender Male |  Date of birth 27/01/1971

 Nationality Italian

CURRENT POSITION

May 2015 – Present

Associate Professor

Department of Science and Technology, University of Naples “Parthenope”, Italy

AREAS OF SPECIALIZATION

1998 – Present

Computational Intelligence, Machine Learning, Deep Learning, Signal Processing, Data Mining, Bioinformatics, Data Analysis in Astrophysics, Geology and Biology

INSTITUTIONAL ROLES HELD

January 2020 – Present

President of the Council for the Course of Study in Computer Science

Department of Science and Technology, University of Naples “Parthenope”

July 2019 – Present

Director of the IoS Foundation Program at University of Naples “Parthenope”

University of Naples “Parthenope”, Italy, Scientific and Technological cooperation agreement between University of Naples “Parthenope” and Apple Distribution International

July 2019 – Present

Director of the Research laboratory “Computational Intelligence and Smart Systems”

Department of Science and Technology, University of Naples “Parthenope”

October 2019 – Present

GRIN representative

Unit of the Department of Science and Technology, University of Naples “Parthenope”

November 2020 – Present

Coordinator of the CINI Lab on BIG DATA

Department of Science and Technology, University of Naples "Parthenope"

- June 2019 – Present **Member of the commission Best Doctoral Thesis "Premio Caianiello"**
Italian Neural Networks Workshop, WIRN
- March 2019 – Present **Member of the "Albo Esperti della Valutazione – Profilo Esperti Disciplinari"**
Italian National Agency for the Evaluation of Universities and Research Institute (ANVUR)
- March 2017 – Present **Member of the "Albo Esperti Scientifici istituito presso il MIUR", REPRIS**
Ministero dell'Istruzione dell'Università e della Ricerca, MIUR
- October 2019 – Present **Supervisor - Temporary Researcher Position (RTD type A)**
Dr. Fabio Narducci, Department of Science and Technology, University of Naples "Parthenope"
- October 2019 – Present **Supervisor - PhD student**
Dr. Emanuel di Nardo, Department of Computer Science, University of Milan

APPOINTMENTS HELD

- May 2015 – Present **Associate Professor**
Department of Science and Technology, University of Naples "Parthenope", Italy
- February 2007 – May 2015 **Assistant Professor**
Department of Science and Technology, University of Naples "Parthenope", Italy
- February 2003 – January 2007 **Research Fellow**
Department of Mathematics and Computer Science, University of Salerno, Italy

EDUCATION AND TRAINING

- 2003 **PhD in Computer Science**
University of Salerno, Italy
- 1998 **Master of Science in Computer Science**
University of Salerno, Italy

UNIVERSITY INSTITUTIONAL ACTIVITIES

- 2019 **President of the graduation commission (B.Sc. and M.Sc.)**
Department of Science and Technology, University of Naples "Parthenope", Italy
- 2018 – Present **Coordinator of the activities with companies**
Department of Science and Technology, University of Naples "Parthenope", Italy

2018 – Present **Member of the research and third mission commission (“Ricerca e Terza Missione”)**
Department of Science and Technology, University of Naples “Parthenope”, Italy

2016 – Present **Supervisor of the Project of “Alternanza Scuola Lavoro” for the Course of Study in Computer Science Laurea**
Dipartimento di Scienze e Tecnologie, Università degli Studi di Napoli “Parthenope”

2014 – Present **Member of the joint commission students and teachers (“Commissione Paritetica Docenti Studenti”)**
Department of Science and Technology, University of Naples “Parthenope”, Italy

TEACHING

2019 – Present **Machine Learning**
M.Sc. in Computer Science (Machine Learning and Big Data), University of Naples “Parthenope”, Italy

2007 – Present **Intelligent Signal Processing**

M.Sc. in Computer Science (Machine Learning and Big Data), University of Naples “Parthenope”, Italy

2007 – Present **Programming I and Laboratory of Programming I**

B.Sc. in Computer Science, University of Naples “Parthenope”, Italy

2015 – Present **Programming III and Laboratory of Programming III**

B.SC. in Computer Science, University of Naples “Parthenope”, Italy

2013 – 2018 **Programming II and Laboratory of Programming II**

B.Sc. in Computer Science, University of Naples “Parthenope”, Italy

DOCTORAL ACTIVITIES

2020 – **Member of the Doctoral Programme, 36th Cycle - “Computational and Quantitative Biology ”, Scientific coordinator Prof. Michele Ceccarelli**
University of Naples “Federico II”, Italy

2015 – 2016 **Member of the Doctoral Programme, 31th Cycle - “Ambiente, Risorse e Sviluppo Sostenibile”, Scientific coordinator Prof. Dumontet Stefano**
University of Naples “Parthenope”, Italy

2019 **Member of the examination commission, XXXI Cycle - “Tecnologie dell’Informazione per l’Ingegneria”**
University of Benevento, Italy

- 2019 Member of of the examination commission, XXXI Cycle - “Management & Information Technology - Curriculum Information Security and Intelligent Systems”
University of Salerno, Italy
- 2018 President of the examination commission, XXX Cycle - “Informatics and Information Engineering” (Informatica e Ingegneria dell’Informazione)
University of Salerno, Italy
- 2017 Member of the examination commission, XIX Cycle - “Informatics and Information Engineering” (Informatica e Ingegneria dell’Informazione)
University of Salerno, Italy
- 2011 Member of the examination commission, IX Cycle - “Mathematics”
University of Salerno, Italy

RESEARCH PROJECTS

- 2017 - Present Supervisor of deliverables (University of Parthenope Unit) for “Progetto Parco Archeologico Urbano di Napoli” (PAUN) (EX PON03PE_0164)
Coordinator: Prof. Alfonso Santoriello
- 2020 Supervisor of the the agreement between Unlimited Software and Department of Science and Technology, University of Naples “Parthenope”
Project: H2020 Piattaforma Logistica Integrata 4.0, Misure "Horizon 2020 – PON 2014/2020"
- 2015 – 2016 Supervisor of the third party agreement between ISPRA (Istituto Superiore per la Protezione e la Ricerca Ambientale, Dipartimento Difesa della Natura) and Department of Science and Technology, University of Naples “Parthenope”
Project titled: Attività di ricerca finalizzata alla valutazione dei rischi ambientali (VRA) connessi all'emissione deliberata di OGM
- 2011 – 2012 Supervisor of the third party agreement between ISPRA (Istituto Superiore per la Protezione e la Ricerca Ambientale, Dipartimento Difesa della Natura) and Department of Science and Technology, University of Naples “Parthenope”
Project titled: Realizzazione di un sistema informatizzato da utilizzare in un processo di valutazione dei rischi ambientali connessi all'immissione deliberata nell'ambiente di Piante Geneticamente Modificate

- 2000 - 2002 Coordinator of the project “Giovani Ricercatori”, Department of Mathematics and Computer Science, University of Salerno
Project titled: Tecniche di Soft-Computing per l’analisi dei dati.
- 2015 - 2017 Component of the research team Parthenope for HORIZON 2020 Project “Heterogeneous Secure Multi-level Remote Acceleration Service for Low-Power Integrated Systems and Devices (RAPID)”, H2020-EU.2.1.1.3. - Future Internet: Software, hardware, Infrastructures, technologies and services.
Coordinator: Prof. Giulio Giunta
- 2018 - Present Member of the Project SE4I – Smart Energy Efficiency & Environment for Industry - Programma Operativo Nazionale “Ricerca e Innovazione” 2014-2020
Coordinator: Prof. Antonino Staiano
- 2011 - 2013 Member of the Project PT2LOG “Piattaforma Tecnologica Integrata Multiruolo per la logistica Intermodale del Fresco e del Freddo”, PON Ricerca e Competitività 2007-2013
Coordinator: Prof. Alfredo Petrosino
- 2008 - 2012 Member of the FIRB Project “Project Ideas, Study and Development of Intelligent Techniques and Methodologies for the Realization of a Platform Capable of Advanced Logistics Control, Handling and Distribution of Goods”
Coordinator: Prof. Alfredo Petrosino
- 2007 - 2013 Member of the Industrial Research Project “RELOGIS - REti LOGistiche Integrate Smart”, Smart Cities and Communities and Social Innovation.
Coordinator: Prof. Alfredo Petrosino
- 2009 - 2011 Member of the National Project Ministero delle Politiche Agricole, Alimentari e Forestali “IntelliVite: Study and Implementation of a Smart Sensor Network based on Multivariate Models for the Containment of Adversity in Viti-culture”.
Coordinator: Prof. Alfredo Petrosino

2008 - 2010 Member of the Major Projects Strategic (GPS) “Advanced Logistics Platform for Control, Handling and Distribution of Goods from China to Consumer Markets in Southern Italy”.

Coordinator: Prof. Alfredo Petrosino

2008 - 2010 Member of the FAR C-PILOS Project.

Coordinator: Prof. Alfredo Petrosino

2008 - 2010 Member of the Project POR Campania Misura 3.17 “On-Demand Information Services Extended Architecture (ODISSEA)”.

Coordinator: Prof. Alfredo Petrosino

2003 - 2005 Member of the PPRIN-COFIN Project “Data Grid per la ricerca in astrofisica: Data Mining e Soluzione di Problemi Complessi in Ambienti di Elaborazione Distribuita’

Coordinator: Prof. Fabio Pasian

2000 - 2002 Member of the PPRIN-COFIN Project “Studi di grandi database astronomici: un nuovo approccio alla ricerca e classificazione automatiche di oggetti normali, rari o difficili”

Coordinator: Prof. Massimo Capaccioli

VISITING

2001-2003-2004 Visiting Doctoral and Post-Doctoral Fellow

Dept. of Electrical and Computer Engineering, University of Alberta, Edmonton, Canada

EDITORIAL ACTIVITIES

2019- Co-Editor

“Internet and Distributed Computing Systems”

12th International Conference, IDCS 2019, Naples, Italy, October 10–12, 2019, Proceedings, Editors: Montella, R., Ciaramella, A., Fortino, G., Guerrieri, A., Liotta, A. (Eds.), LNBI, Springer, ISBN 978-3-030-34914-1

2019- Guest Editor

Special Issue “Recent Machine Learning Applications to Internet of Things (IoT)”

Electronics (ISSN 2079-9292), Section “Artificial Intelligence”

2019- Co-Editor

“Computational Intelligence Methods for Bioinformatics and Biostatistics”

15-th International Meeting, CIBB 2018, Revised Selected Papers, Editors: Raposo, M., Ribeiro, P., Sério, S., Staiano, A., Ciaramella, A. (Eds.), LNBI, Springer, ISBN 978-3-030-34585-3

2020- Associate Editor

Peerj Computer Science, Open Access Journal

2019- Associate Editor

Information Sciences Journal, Springer

2019- Associate Editor

Soft Computing Journal, Springer

2015- Associate Editor

International Journal on Artificial Intelligence Tools, World Scientific

2014-2017 Associate Editor

Journal of Applied Mathematics, Hindawi

CONFERENCES ACTIVITIES

2019 Co-General Chair

12-th International Conference on Internet and Distributed Computing Systems, IDCS2019

October 10-12, 2019, Naples, Italy

2018 Technical Chair (Bioinformatics)

CIBB2018, 15th International Conference on Computational Intelligence methods for Bioinformatics and Biostatistics

Caparica, Portugal, 6-8 September 2018

2020 Organizer of the Session

“Computational Intelligence methods in bioinformatics”

IEEE EAIS 2020, 27-29 May 2020, Bari (BA), Italy

2020 Session Chair

“Image processing and pattern recognition”

IEEE EAIS 2020, 27-29 May 2020, Bari (BA), Italy

2019 Organizer and Session Chair

“Advanced Smart Multimodal Data Processing”

29th edition of the Italian Neural Networks Workshop, WIRN2019, 12-14 June 2019, Vietri sul Mare (Sa), Italy

- 2018 **Organizer and Session Chair**
“Computational Intelligence Methods for Bioinformatics and Biostatistics – III”
CIBB2018 - 15th International Conference on Computational Intelligence Methods for Bioinformatics and Biostatistics, Caparica, Portugal, 6 to 8 September 2018
- 2018 **Plenary Lecture Chair**
“Sparse graphical models in genomics: an application to censored qPCR data”, Prof. Veronica Vinciotti
CIBB2018 - 15th International Conference on Computational Intelligence Methods for Bioinformatics and Biostatistics, Caparica, Portugal, 6 to 8 September 2018
- 2017 **Organizer and Session Chair**
“Advances in Soft Computing modelling for biomedical data”
FUZZ-IEEE 2017 (IEEE International Conference on Fuzzy Systems), 09.07.2017 - 12.07.2017, Naples
- 2004 **Session Chair**
“Identification and Analysis of Fuzzy Models III”
3rd International Conference of the North American Fuzzy Information Processing Society (NAFIPS 2004), from 27 to 30 June, 2004, Banff, Alberta, Canada
- 2017 – 2018 **Program Committee Member**
CIBB International Conference on Computational Intelligence methods for Bioinformatics and Biostatistics
- 2017 **Program Committee Member**
FUZZ-IEEE 2017 (IEEE International Conference on Fuzzy Systems), 09.07.2017 - 12.07.2017, Naples
- 2005 – Present **Program Committee Member**
International Conference on Intelligent Computing (ICIC)
- 2008 – 2013 **Program Committee Member**
Global Congress on Intelligent Systems (GCIS)

REVIEWER ACTIVITIES

1998 – Present International Scientific Journals

IEEE Transactions on Neural Networks and Learning Systems, IEEE Transaction on Fuzzy Systems, IEEE Transaction on Cybernetics, Soft Computing, Neurocomputing, Fuzzy Sets and Systems, Information Sciences, International Journal on Artificial Intelligence Tools, IET Communications, Pattern Recognition Letters, Pattern Recognition, Neural Computing and Applications, International Journal of Applied Mathematics and Computer Science, IEEE Transaction on Biomedical Engineering, Entropy, Electronics, Algorithms

SOCIETIES MEMBERSHIPS

1998 – Present **Scientific Societies Memberships**Societies
Memberships

IEEE(Fellow), IEEE Computational Intelligence Society, IEEE Signal Processing, SIREN (Società Italiana RETi Neurali), GIRPR (Gruppo Italiano Ricercatori in Pattern Recognition), AlxIA

SCIENTIFIC ACTIVITIES

Short Resume The main research interests of Angelo Ciaramella are Computational Intelligence, Machine Learning and Data Mining. In particular he is interested in statistical and Machine Learning approaches for Blind Source Separation, Sparse Coding, Compressive Sensing and Dictionary Learning, for signal processing (i.e., audio, video, streaming, astrophysical and geological) and feature extraction. Moreover, he has been working on fuzzy and neuro-fuzzy systems for structured and unstructured data. He is interested in developing Fuzzy Decision Support Systems in risk assessment. He also studied and developed new methodologies for pre-processing, clustering, visualization and assessment of biological, air quality and social network data (e.g., twitter). Recently, he is also interested in signal processing by using Deep Learning methodologies in Brain Computer Interfaces.

SCIENTIFIC WORKS

- Journals**
- *Adaptive One-Class gaussian processes allow accurate prioritization of oncology drug targets*, A. de Falco, Z. Dezso, F. Ceccarelli, L. Cerulo, A. Ciaramella, M. Ceccarelli, Bioinformatics, btaa968, <https://doi.org/10.1093/bioinformatics/btaa968>;
 - *Data Integration by Fuzzy Similarity-Based Hierarchical Clustering*, A. Ciaramella, D. Nardone, A. Staiano BMC Bioinformatics, 21, 350 (2020), doi.org/10.1186/s12859-020-03567-6;
 - *Record linkage of banks and municipalities through multiple criteria and neural networks*, A. Maratea, A. Ciaramella, G. P. Cianci, PeerJ Computer Science, 6, no. 258, doi: 10.7717/peerj-cs.258, 2020;
 - *Predictive reliability and validity of hospital cost analysis with dynamic neural network and genetic algorithm*, L. H. Son, A. Ciaramella, D. T. Thu, A. Staiano, T. M. Tuan, P. Van Hai, Neural Computing and Applications, doi: 10.1007/s00521-020-04876-w, 2020;
 - *A Sparse-Modeling Based Approach for Class Specific Feature Selection*, D. Nardone, A. Ciaramella, A. Staiano, PeerJ Computer Science, 5:e237, doi.org/10.7717/peerj-cs.237, 2019;
 - *On the Role of Clustering and Visualization Techniques in Gene Microarray Data*, A. Ciaramella, A. Staiano, Algorithms, 12(6), 123, 2019;
 - *Spatio-temporal learning in predicting ambient particulate matter concentration by multi-layer perceptron*, E. Chianese, F. Camastrà, A. Ciaramella, T. C. Landi, A. Staiano, A. Riccio, Ecological Informatics, 49, pp. 54-61, 2019;
 - *Compressive sampling and adaptive dictionary learning for the packet loss recovery in audio multimedia streaming*, A. Ciaramella, M. Gianfico, G. Giunta, Multimedia Tools and Applications, 75 (24), pp. 17375-17392, ISSN: 13807501, doi: 10.1007/s11042-015-3002-x, 2016;
 - *Packet loss recovery in audio multimedia streaming by using compressive sensing*, A. Ciaramella, G. Giunta, IET Communications, 10 (4), pp. 387-392, ISSN: 17518628, doi: 10.1049/iet-com.2014.0995, 2016;
 - *A fuzzy decision system for genetically modified plant environmental risk assessment using Mamdani inference*, F. Camastrà, A. Ciaramella, V. Giovannelli, M. Lener, V. Rastelli, A. Staiano, G. Staiano, A. Starace, Expert Systems with Applications, 42 (3), pp. 1710-1716, ISSN: 09574174, doi: 10.1016/j.eswa.2014.09.041, 2015;
 - *TÉRA: A tool for the environmental risk assessment of genetically modified plants*, F. Camastrà, A. Ciaramella, V. Giovannelli, M. Lener, V. Rastelli, A. Staiano, G. Staiano, A. Starace, Ecological Informatics, vol. 24, pp. 186-193, ISSN: 15749541, doi: 10.1016/j.ecoinf.2014.09.001, 2014;
 - *A note on some mathematical models on the effects of Bt-maize exposure*, F. Camastrà, A. Ciaramella, A. Staiano, Environmental and Ecological Statistics, pp. 1-9, ISSN: 1352-8505, doi: 10.1007/s10651-013-0264-1, 2013;
 - *Machine Learning and Soft Computing Methodologies for Music Emotion Recognition*, A. Ciaramella, G. Vettigli, Smart Innovation, Systems and Technologies, vol. 19, p. 427-436, ISBN: 978-364235466-3, doi: 10.1007/978-3-642-35467-042, 2013;

- Journals**
- *Machine Learning and Soft Computing for ICT Security: an Overview of Current Trends*, F. Camastra, A. Ciaramella, A. Staiano, *Journal of Ambient Intelligence and Humanized Computing*, vol. 4, p. 235-247, ISSN: 1868-5137, doi: 10.1007/s12652-011-0073-z, 2013;
 - *Information-Theoretic Approaches for Models Selection in Multi-model Ensemble Atmospheric Dispersion Predictions*, A. Riccio, A. Ciaramella, S. Galmarini, E. Solazzo, S. Potempski, *NATO Science for Peace and Security Series C: Environmental Security*, 137, pp. 535-539, ISSN: 18746519, doi:10.1007/978-94-007-5577-2_90, 2013;
 - *On the systematic reduction of data complexity in multi-model atmospheric dispersion ensemble modeling*, A. Riccio, A. Ciaramella, S. Galmarini, G. Giunta, S. Potempski, E. Solazzo, *Journal of Geophysical Research - Atmospheres*, vol. 117, ISSN: 0148-0227, doi: 10.1029/2011JD016503, 2012;
 - *Automatic detection of long-period events at Campi Flegrei Caldera (Italy)*, A. Ciaramella, E. De Lauro, M. Falanga, S. Petrosino, *Geophysical Research Letters*, vol. 38, pp. 1-5, ISSN: 0094-8276, doi: 10.1029 /2011GL049065, 2011;
 - *Modeling and Generating Organ Pipes Self-Sustained Tones by Using ICA*, A. Ciaramella, E. De Lauro, S. De Martino, M. Falanga, R. Tagliaferri, *Journal of Signal and Information Processing*, vol. 02, pp. 141-151, ISSN: 2159-4465, doi: 10.4236/jsip.2011.23018, 2011;
 - *Interactive data analysis and clustering of genomic data*, A. Ciaramella, S. Cocozza, F. Iorio, G. Miele, F. Napolitano, M. Pinelli, G. Raiconi, R. Tagliaferri, *Neural Networks*, vol. 21, Issues 2-3, pp. 368-378, ISSN: 0893-6080, doi: 10.1016/j.neunet.2007.12.026, 2008;
 - *Clustering and visualization approaches for human cell cycle gene expression data analysis*, F. Napolitano, G. Raiconi, R. Tagliaferri, A. Ciaramella, A. Staiano, G. Miele, *International Journal of Approximate Reasoning*, vol. 47, Issue 1, pp. 70-84, ISSN: 0888-613, doi: 10.1016/j.ijar.2007.03.013, 2008;
 - *Neural Network Techniques for Proactive Password Checking*, A. Ciaramella, P. D'Arco, A. De Santis, C. Galdi, R. Tagliaferri, *IEEE Transactions on Dependable and Secure Computing*, Volume 3, Issue 4, Oct.-Dec. 2006 Page(s):327 - 339, ISSN: 1545-5971, doi: 10.1109/TDSC.2006.53, 2006;
 - *A Multi-Step Approach to Time Series Analysis and Gene Expression Clustering*, R. Amato, A. Ciaramella, N. Deniskina, C. Del Mondo, D. di Bernardo, C. Donalek, G. Longo, G. Mangano, G. Miele, G. Raiconi, A. Staiano, R. Tagliaferri, *Bioinformatics*, vol. 22, n. 5, pp. 589-596, ISSN: 1367-4803, doi: 10.1093/bioinformatics/btk026, 2006;
 - *Complexity of Time Series Associated to Dynamical Systems Inferred from Independent Component Analysis*, A. Ciaramella, E. de Lauro, S. De Martino, M. Falanga, R. Tagliaferri, *Physical Review E.*, 72, 046712-1/14, ISSN: 1539-3755, doi: 10.1103/PhysRevE.72.046712, 2005;
 - *Separation of Convolved Mixtures in Frequency Domain ICA* , A. Ciaramella, M. Funaro, R. Tagliaferri, *International Mathematical Forum*, vol. 1, no. 16, pp. 769-795, ISSN: 1312-7594, doi: 10.12988/imf, 2006;
 - *Novel Techniques for Microarray Data Analysis* , A. Ciaramella, R. Amato, A. Staiano, R. Tagliaferri, et al., *Journal of Theoretical and Computational Nanoscience*, vol. 2, n. 4, pp. 514-523, ISSN: 1546-1955, doi: http://dx.doi.org/ 10.1166/ jctn.2005.006, 2005;
 - *Fuzzy Relational Neural Network* , A. Ciaramella, R. Tagliaferri, W. Pedrycz, A. Di Nola, *International Journal of Approximate Reasoning*, vol. 41, pp. 146-163, ISSN: 0888-613, doi: 10.1016/j.ijar.2005.06.016, 2006;
 - *ICA Based Identification of Dynamical Systems Generating Synthetic and Real World Time Series* , A. Ciaramella, E. De Lauro, S. De Martino, M. Falanga, R. Tagliaferri, *Soft Computing*, vol. 10, pp. 587-606, ISSN: 1432-7643, doi: 10.1007/s00500-005-0515-7, 2006;
 - *Applications of Neural Networks in Astronomy and Astroparticle Physics* , A. Ciaramella, E. Donalek, A. Staiano, et al., *Recent Res. Devel. Astrophys.*, vol. 2, pp. 27-58, ISBN:9788177362954, 2005;
 - *The Genetic Development of Ordinal Sums* , A. Ciaramella, W. Pedrycz, R. Tagliaferri, *Fuzzy Sets and Systems*, vol. 151, pp. 303-325, doi: 10.1016/j.fss.2004.07.003, ISSN: 0165-0114, 2005;
 - *Characterization of Strombolian Events by Using Independent Component Analysis* , A. Ciaramella, E. De Lauro, S. De Martino, B. Di Lieto, M. Falanga, R. Tagliaferri, *Nonlinear Processes in Geophysics*, vol. 11, pp. 453-461, ISSN: 1023-5809, 2004;

- Journals**
- *A Multifrequency Analysis of Radio Variability of Blazars* , A. Ciaramella, C. Bongardo, H. D. Aller, M. F. Aller, G. De Zotti, A. Lähteenmaki, G. Longo, L. Milano, R. Tagliaferri, H. Teräsraanta, M. Tornikoski, S. Urpo, *Astronomy & Astrophysics Journal*, vol. 419, pp. 485-500, ISSN: 0004-6361, doi: 10.1051/0004-6361:20035771, 2004;
 - *Polarisation analysis of the independent components of low frequency events at Stromboli volcano (Eolian Islands, Italy)* , F. Acerneese , A. Ciaramella, S. De Martino, M. Falanga, C. Godano, R. Tagliaferri, *Journal of Volcanology and Geothermal Research*, Elsevier Journals, n. 137, pp. 153-168, ISSN: 0377-0273, doi: 10.1016/j.jvolgeores.2004.05.005, 2004;
 - *Neural Networks in Astronomy* , R. Tagliaferri, G. Longo, L. Milano, F. Acerneese, F. Barone, A. Ciaramella, R. De Rosa, C. Donalek, A. Eleuteri, G. Raiconi, S. Sessa, A. Staiano, A. Volpicelli, *Neural Networks*, vol. 16, N. 3-4, pp. 295-319, 2003, ISSN: 0893-6080, doi: 10.1016/S0893-6080(03)00028-5, 2003;
 - *Neural Networks for Blind-Source Separation of Stromboli Explosion Quakes* , F. Acerneese, A. Ciaramella, S. De Martino, R. De Rosa, M. Falanga, R. Tagliaferri, *IEEE Transactions on Neural Networks*, vol. 14, Issue: 1, pp. 167-175, ISSN: 1045-9227, doi: 10.1109/TNN.2002.806649, 2003;
 - *Soft Computing Methodologies for Spectral Analysis in Cyclostratigraphy* , R. Tagliaferri, N. Pelosi, A. Ciaramella, G. Longo, M. Milano, F. Barone, *Computers and Geosciences*, vol. 27, issue 5, pp. 535-548, ISSN: 0098-3004, doi: 10.1016/S0098-3004(00)00166-7, 2001;
 - *Spectral Analysis of Stellar Light Curves by Means of Neural Networks* , R. Tagliaferri, A. Ciaramella, L. Milano, F. Barone, G. Longo, *Astronomy and Astrophysics Supplement Series*, vol. 137, pp. 391-405, ISSN: 0004-6361, 1999;
- Book Chapters (Scopus)**
- *Compressive Sensing and Hierarchical Clustering for Microarray Data with Missing Values*, A. Ciaramella, D. Nardone, A. Staiano, Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics), 11925 LNBI, pp. 3-10, 2020;
 - *Semantic Maps for Knowledge Management of Web and Social Information*, F. Camasta, A. Ciaramella, A. Maratea, L.H. Son, A. Staiano, Studies in Computational Intelligence, 837, pp. 39-51, 2020;
 - *Blind Source Separation Using Dictionary Learning in Wireless Sensor Network Scenario*, A. Ciaramella, D. Nardone, A. Staiano, In: Esposito A., Faundez-Zanuy M., Morabito F., Pasero E. (eds), *Neural Approaches to Dynamics of Signal Exchanges*. Smart Innovation, Systems and Technologies, vol 151, pp. 119-131, Springer, 2020;
 - *StormSeeker: A machine-learning-based mediterranean storm tracer*, R. Montella, D. Di Luccio, A. Ciaramella, I. Foster, Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics), 11874 LNCS, pp. 444-456, 2019
 - *Fuzzy Similarity-based Hierarchical Clustering for Atmospheric Pollutants Prediction*, F. Camasta, A. Ciaramella, A. Riccio, S. Le Hoang, A. Staiano, Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics), 11291 LNAI, pp. 123-133, 2019;
 - *Content-based music agglomeration by sparse modeling and convolved independent component analysis*, M. Iannicelli, D. Nardone, A. Ciaramella, A. Staiano, (2019) Smart Innovation, Systems and Technologies, 103, pp. 87-96;
 - *Fuzzy clustering of structured data: Some preliminary results*, G. Vettigli, A. Ciaramella, IEEE International Conference on Fuzzy Systems, art. no. 8015648, 2017;
 - *On the estimation of pollen density on non-target lepidoptera food plant leaves in bt-maize exposure models: Open problems and possible neural network-based solutions*, F. Camasta, A. Ciaramella, A. Staiano, Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics), 10613 LNCS, pp. 407-414, 2017;
 - *Semantic maps of Twitter conversations*, A. Ciaramella, A. Maratea, E. Spagnoli, Smart Innovation, Systems and Technologies, 69, pp. 327-338, 2017;
 - *A bayesian-based neural network model for solar photovoltaic power forecasting*, A. Ciaramella, A. Staiano, G. Cervone, S. Alessandrini, Smart Innovation, Systems and Technologies, 54, pp. 169-177, ISSN: 21903018, doi: 10.1007/978-3-319-33747-0_17, 2016;

Book Chapters (Scopus)

- *A Fuzzy Decision Support System for the Environmental Risk Assessment of genetically modified organisms*, F. Camastra, A. Ciaramella, V. Giovannelli, M. Lener, V. Rastelli, A. Staiano, G. Staiano, A. Starace, *Smart Innovation, Systems and Technologies*, 26, pp. 241-249, ISSN: 21903018, doi: 10.1007/978-3-319-04129-2_24, 2014;
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