

Curriculum Vitae

INFORMAZIONI PERSONALI

Nome RICCARDO
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ATTIVITA' DIDATTICA

2023-2024 "Machine Intelligence for Combinatorial Optimization" corso di Laurea Data, Algorithms, and Machine Intelligence, Università di Palermo

2022-2023 "Ottimizzazione Euristica" N.O. corso di Laurea in Informatica, Università di Palermo

2021-2022 "Ottimizzazione Euristica" N.O. corso di Laurea in Informatica, Università di Palermo

2020-2021 "Ottimizzazione Euristica" N.O. corso di Laurea in Informatica, Università di Palermo

2019-2020 "Algoritmi Euristici" N.O. corso di Laurea in Informatica, Università di Palermo

2018-2019 "Algoritmi Euristici" N.O. corso di Laurea in Informatica, Università di Palermo

2017-2018 "Algoritmi Euristici" N.O. corso di Laurea in Informatica, Università di Palermo

2016-2017 "Algoritmi Euristici" N.O. corso di Laurea in Informatica, Università di Palermo

2008-2009 "Fondamenti di Informatica" N.O. corso di Laurea in Ingegneria delle Telecomunicazioni, Università di Palermo

2007-2008 "Fondamenti di Informatica" N.O. corso di Laurea in Ingegneria delle Telecomunicazioni, Università di Palermo

2006-2007 "Fondamenti di Informatica" N.O. corso di Laurea in ingegneria Informatica, Università di Palermo

2005-2006 "Fondamenti di Informatica" N.O. corso di Laurea in ingegneria Informatica, Università di Palermo

2005 "Tecnologie di Ricerca della Informazione in Rete", corso on-line corso di Laurea in Scienze e Tecnologie per L'Ambiente ed il Turismo, Università di Palermo

2004-2005 "Fondamenti di Informatica" N.O. corso di Laurea in ingegneria Informatica, Università di Palermo

2004 "Tecnologie di Ricerca della Informazione in Rete", corso on-line corso di Laurea in Scienze e Tecnologie per L'Ambiente ed il Turismo, Università di Palermo

2003-2004 "Fondamenti di Informatica" N.O. corso di Laurea in ingegneria Informatica, Università di Palermo

2003 "Tecnologie di Ricerca della Informazione in Rete", corso on-line corso di Laurea in Scienze e Tecnologie per L'Ambiente ed il Turismo, Università di Palermo

2002-2003 "Fondamenti di Informatica" N.O. corso di Laurea in ingegneria Informatica, Università di Palermo

2002 "Information Storage and Retrieval", INFSCI1030, alla School of Information Science, Pittsburgh University, Pittsburgh USA.

INCARICHI / CONSULENZE

2016 Head of the Laboratory of Translational bioinformatics, ICA-CNR

March 2011, Member of the PhD exam at the University College of Dublin, Dublino, Irlanda, for the thesis: "Gene, exons and protein domains: function, evolution, prediction by artificial neural networks".

PUBBLICAZIONE

1. Fiannaca, Antonino; La Rosa, Massimo; La Paglia, Laura; Rizzo, Riccardo; Urso, Alfonso, "Analysis of miRNA expression profiles in breast cancer using biclustering", 2015, "BMC bioinformatics ISSN: 1471-2105 BioMed Central,"
2. Fiannaca, Antonino; La Rosa, Massimo; Rizzo, Riccardo; Urso, Alfonso, "A k-mer-based barcode DNA classification methodology based on spectral representation and a neural gas network", 2015, pp. 173-184, "Artificial intelligence in medicine (Print) ISSN: 0933-3657 Elsevier Science Publishers"
3. La Rosa, Massimo; Fiannaca, Antonino; Rizzo, Riccardo; Urso, Alfonso, "Probabilistic topic modeling for the analysis and classification of genomic sequences", 2015, "BMC bioinformatics ISSN: 1471-2105 BioMed Central,"
4. Fiannaca A.; La Rosa M.; Rizzo R.; Urso A.; Gaglio S. "An expert system hybrid architecture to support experiment management", 2014, pp.1609-1621, "Expert systems with applications ISSN: 0957-4174 Pergamon,"
5. Fiannaca A.; La Rosa M.; Di Fatta G.; Gaglio S.; Rizzo R.; Urso A., "The biodice Taverna plugin for clustering and visualization of biological data: A workflow for molecular compounds exploration", 2014, "Journal of cheminformatics ISSN: 1758-2946 Chemistry Central Ltd. in association with BioMed Central,"
6. Fiannaca A.; La Rosa M.; Urso A.; Rizzo R.; Gaglio S., "A knowledge-based decision support system in bioinformatics: An application to protein complex extraction", 2013, "BMC bioinformatics ISSN: 1471-2105 BioMed Central,"
7. La Rosa M.; Fiannaca A.; Rizzo R.; Urso A., "Alignment-free analysis of barcode sequences by means of compression-based methods", 2013, "BMC bioinformatics ISSN: 1471-2105 BioMed Central,"
8. A. Fiannaca, M. La Rosa, S. Gaglio, R. Rizzo, A. Urso, "An ontological-based knowledge organization for bioinformatics workflow management system", 2012, pp.110-112, "EMBnet journal ISSN: 2226-6089, EMBnet Stichting"
9. Riccardo Rizzo, Alfonso Urso, Massimo La Rosa, Antonino Fiannaca, "Analysis of barcode sequences by means of compression-based methods", 2012, "EMBnet journal ISSN: 2226-6089 EMBnet Stichting"
10. Riccardo Rizzo, Antonino Fiannaca, Massimo La Rosa, D. Peri, "An Intelligent System for Decision Support in Bioinformatics", 2011, pp.35-36, "ERCIM news ISSN: 0926-4981 ERCIM."
11. Massimo La Rosa; Riccardo Rizzo; and Alfonso Urso, "Soft topographic maps for clustering and classifying bacteria using housekeeping genes, 2011, "Advances in Artificial Neural Systems (Print) ISSN: 1687-7594 Hindawi Publishing Corporation"
12. La Rosa Massimo, Gaglio Salvatore, Rizzo Riccardo, Urso Alfonso, "Comparison of Genomic Sequences Clustering using Normalized Compression Distance and Evolutionary Distance", 2009, pp.345-362, Inderscience Publishers, Ginevra (CHE), "International journal of knowledge engineering and soft data paradigms (Print) ISSN: 1755-3210 Inderscience Enterprises,"
13. La Rosa M., Rizzo R., Urso A., Gaglio S., "Normalized Compression Distance and Evolutionary Distance of Genomic Sequences: Comparison of Clustering Results", 2009, pp. 345-363, "International journal of knowledge engineering and soft data paradigms (Print) ISSN: 1755-3210 Inderscience Enterprises,"
14. Umberto Maniscalco and Riccardo Rizzo, "A virtual layer of measure based on soft sensors", 2016, pp. 1-10, "Journal of Ambient Intelligence and Humanized Computing ISSN: 1868-5145 springer"
15. Cipolla Emanuele, Maniscalco Umberto, Rizzo Riccardo, Stabile Dario, Vella Filippo, "Analysis and visualization of meteorological emergencies", 2016, pp. 1-12, "Journal of Ambient Intelligence and Humanized Computing ISSN: 1868-5145 springer"
16. Maniscalco, U.; Rizzo, R., "ADDING A VIRTUAL LAYER IN A SENSOR NETWORK TO IMPROVE MEASUREMENT RELIABILITY", 2015, pp. 260-264, "Series on advances in mathematics for applied sciences ISSN: 1793-0901 World Scientific Publishing Co Pte Ltd.,"
17. Agnese Augello and Ignazio Infantino and Antonio Lieto and Giovanni Pilato and Riccardo Rizzo and Filippo Vella, "Artwork creation by a cognitive architecture integrating computational creativity and dual process approaches", 2015, "Biologically inspired cognitive architectures (Print) ISSN: 2212-683X Elsevier"
18. Augello, Agnese; Infantino, Ignazio; Pilato, Giovanni; Rizzo, Riccardo; Vella, Filippo, "Creativity evaluation in a cognitive architecture", 2015, pp.29-37, "Biologically inspired cognitive architectures (Print) ISSN: 2212-683X Elsevier"
19. Rizzo, Riccardo, "A new training method for large self organizing maps", 2013, pp.263-275, "Neural Processing Letters ISSN: 1370-4621 D facto s.a."
20. Augello, Agnese and Infantino, Ignazio and Pilato, Giovanni and Rizzo, Riccardo and Vella, Filippo, "Binding representational spaces of colors and emotions for creativity", 2013, pp.64-71, "Biologically inspired cognitive architectures (Print) ISSN: 2212-683X Elsevier"
21. Infantino, Ignazio; Pilato, Giovanni; Rizzo, Riccardo; Vella, Filippo, "Humanoid Introspection: A Practical Approach", 2013, "International journal of advanced robotic systems (Print) ISSN: 1729-8806, Institute for Production Engineering. Intelligent Manufacturing Systems. Vienna University of Technology."
22. Augello, Agnese; Infantino, Ignazio; Pilato, Giovanni; Rizzo, Riccardo; Vella, Filippo "Introducing a creative process on a cognitive architecture", 2013, pp.131-139, "Biologically inspired cognitive architectures (Print) ISSN: 2212-683X, Elsevier"
23. Alfonso Urso, Riccardo Rizzo, Salvatore Gaglio, Giuseppe Di Fatta, Antonino Fiannacam, "Simulated Annealing Technique for Fast Learning of SOM Networks", 2011, pp.889-899, Springer, New York (USA) "Neural computing & applications (Print) ISSN: 0941-0643 Springer."
24. Di Fatta Giuseppe, Fiannaca Antonino, Gaglio Salvatore, Rizzo Riccardo, Urso Alfonso, "Clustering Quality and Topology Preservation in Fast Learning SOMs", 2009, pp.625-639, "Neural Network World (Prague) ISSN: 1210-0552 Computer World Co.,"
25. Pilato Giovanni; Rizzo Riccardo; Pirrone Roberto, "A KST-Based system for Student Tutoring", 2008, pp.283-308, Taylor & Francis Inc., Philadelphia (USA), "Applied artificial intelligence ISSN: 0883-9514 Hemisphere Pub. Co.,"
26. Ignazio Infantino; Riccardo Rizzo; Salvatore Gaglio, "A framework for sign language sentence recognition by common sense context", 2007, pp. 1034-1039, IEEE, Institute of electrical and electronics engineers, New York (USA), "IEEE transactions on systems, man and cybernetics. Part C, Applications and reviews ISSN: 1094-6977, Institute of Electrical and Electronics Engineers,"

27. Antonio Chella; Riccardo Rizzo, "A comparison between habituation and conscience mechanism in self-organizing maps", 2006, pp. 807-810, IEEE Computer Society, Los Alamitos [CA] (USA), "IEEE transactions on neural networks ISSN: 1045-9227, Institute of Electrical and Electronics Engineers,"
28. Riccardo Rizzo, "A high-order graph generating self-organizing structure", 2005, pp.349-355, WORLD SCIENTIFIC PUBL CO PTE LTD, SINGAPORE (TWN) "International journal of neural systems ISSN: 0129-0657 World Scientific."
29. Cossentino Massimo, Pirrone Roberto, Pilato Giovanni, Russo Giuseppe, Rizzo Riccardo, "Discovering Learning Paths on a domain ontology using natural language interaction", 2005, pp.310-314, "Lecture notes in computer science ISSN: 0302-9743 Springer"
30. Brusilovsky P., Rizzo R., "Map-Based Horizontal Navigation in Educational Hypertext", 2002, pp.3-12, "JoDI. Journal of digital information ISSN: 1368-7506, University of Southampton. Group."
31. Brusiliwsky P., Rizzo R., "Using maps and landmarks for navigation between closed and open corpus hyperspace in web-based education", 2002, pp.59-82, TAYLOR & FRANCIS LTD, 4 PARK SQUARE, MILTON PARK, ABINGDON OX14 4RN, OXON (GBR) "New review of hypermedia and multimedia ISSN: 1361-4568 Taylor Graham

ATTIVITA' SCIENTIFICHE

He participates in the program committee of several international conferences and has served as editor of some Supplements of the BMC Bioinformatics journal.

Editorial Board Member of

- Journal of Educational Multimedia and Hypermedia from: 01/01/1999
- BMC Bioinformatics from 2024

Associate Editor for

- Frontiers in Neuroinformatics from 2024
- Computational Genomics from 2024

AMBITI DI RICERCA

His research is focused mainly on machine learning methods of sequence analysis, and biomedical data analysis, and on neural networks applications.

ALTRE ATTIVITA

Awards

2017

Best Paper Award at the 11th International Conference on Innovative Mobile and Internet Services in Ubiquitous Computing (IMIS 2017) with the paper A.Messina, A. Augello, G. Pilato, R.Rizzo "BioGraphBot: A Conversational Assistant for Bioinformatics Graph Databases"

2002

Ted Nelson Award during ACM 13th Conference on Hypertext and Hypermedia (Hypertext 2002) with the paper Brusilovsky P. and Rizzo R., "Map-Based Horizontal Navigation in Educational Hypertext".

1995

Speaker at the Advanced Research Exhibition in Trieste, Italy. (Multimedia Systems and virtual reality to understand the robots).

