

CURRICULUM VITAE ET STUDIORUM

Enrico Blanzieri, [REDACTED]

Positions

2012-present, Associate Professor (class 09/H1), Dipartimento di Ingegneria e Scienza dell'Informazione, University of Trento, Italy. (Start: September 2012).

2002-2012, Assistant Professor (class ING-INF05), Department of Information and Communication Technology (now Dipartimento di Ingegneria e Scienza dell'Informazione), Engineering Faculty, University of Trento, Italy. (Start: April 2002, End: August 2012).

2000-2002. Assistant Professor (class PSI-01), Psychology Department, Psychology Faculty, University of Turin, Italy. (Start: October 2000, End: March 2002).

1997-2000 Researcher at ICT-irst, Trento (now Bruno Kessler Foundation) within the Automated Reasoning Systems division. (Start: June 1997, End: September 2000).

1993-1996 Software Analyst ("VIII livello") Ministry of Interior Rome Italy. (Start: June 1993, End: November 1996). From 1994 on leave while attending the Ph.D. program.

1992-1993 Civilian Servant as special-needs teacher in a professional school in substitution of conscripted military service. (Start: June 1992, End: June 1993).

1992 High-school teacher of Electronics for a fortnight.

Education

1998 Ph.D. in Cognitive Science

Ph.D. in Cognitive Science IX cycle at Cognitive Science Center, University and Polytechnic of Torino, defense on June 13 1998 of the doctoral thesis "Learning Algorithms for Radial Basis Function Networks: Synthesis, Experiments and Cognitive Modeling", supervisor: prof. Attilio Giordana, Department of Computer Science, University of Torino.

1992 Degree in Electronic Engineering

Degree cum laude in Electronic Engineering, on March 18 1992, at University of Bologna with the thesis "Modelli di reti neurali basate su meccanismi di apprendimento biologico" (Models of neural networks based on mechanisms of biological learning), supervisor: prof. Dario Maio, co-advisor Fabio Grandi, DEIS, University of Bologna.

Research Interests and activity

The main area of interest is Machine Learning and in particular Instance-Based Learning that comprises k-Nearest Neighbours algorithms, Case-Based Reasoning, Radial Basis Function Networks and also Support Vector Machines. Specifically, the work has been on similarity metrics for k-NNs and Case Based Reasoning, on structural learning algorithms for the Radial Basis Function Networks, RBFNs, local versions of Support Vector Machines and their fast and scalable implementations and recently quantum-hybrid algorithms. A focal methodological point of the activity is to give strong statistical foundations to the learning methods and to test them empirically.

From the applicative point of view, the interest ranged widely on the applications of the techniques to different areas (Medicine, Tourism, Cognitive Science, Remote Sensing and Biology) and it is now mainly focused on Bioinformatics. In the medical field there was the proposal of an automated classifier for the problem of image-based diagnosis of Melanoma; in the tourism domain the use of case-based reasoning to support tourists' activity and community on the web and in Cognitive Science the modeling of communication, learning and decision phenomena. In particular, cognitive models of communication phenomena benefited of the application of RBFNs techniques to experimental data analysis; neural networks with strong biological adherence reproduced relevant learning phenomena in animal psychology and data analysis detected the nonconformity of experimental data with theoretical decision models in case of dramatic events. In case of Remote Sensing local SVM outperformed global ones and the local approach to SVM proved to be effective also in email anti-spam filters. The applicative efforts are now focused more and more on Bioinformatics and in particular on gene expression data analysis obtained through high-throughput technologies. In that context, work done in international collaborations showed that SVMs are useful to biological data quality control. Moreover, we explored the relationship between data and computational models as well as the use of kernels for integration of biological data. The application of algorithms for causal inference to gene network expansion is the current research topic in particular with implementation based on distributed volunteer computing. Recently, hybrid quantum-classical algorithms that learn an optimization problem representation has been defined as well as algorithms for Quantum Machine Learning proposed.

During the past years a cospicue effort has been devoted to the definition of the concept of Implicit Culture and its application through automated learning techniques to a wide range of problems. The definition of culture for a set of agents with applications in robotics has been recently pursued in collaboration with Stefano Borgo (CNR).

Teaching activity

Since 2002 at the Faculty of Engineering in Trento the teaching activity for undergraduate students has been devoted to basic computer science courses (Fundamentals of Computer Science) in a wide range of Engineering degrees and on specific courses (Computer Architectures and Object-Oriented programming) for the degree in Telecommunication Engineering in Faculty of Engineering and very recently for the degree in Computer, Communication and Electronic Engineering (Advanced Programming). For the Master of Science in Computer Science and for PhD courses the teaching activities have been concentrated mainly on Data Mining and Instance-based learning. Some teaching effort has been also devoted to courses in informatics and data analysis for graduate students in Environmental Engineering. The course in Human-Computer Interaction for Net-Economy is more connected to the competences gained at the University of Turin while teaching the courses of Methodology of Behavioural Sciences and General Psychology. Currently the teaching effort is focused on courses for the master degree in Quantitative and Computational Biology in collaboration with CIBIO and the departments of Mathematics and Physics of University of Trento.

Until academic year 2011-2012 the courses listed below refer to the Engineering Faculty, University of Trento, and the teaching language is Italian unless specified otherwise. Since academic year 2012-2013 the courses are within Dipartimento di Ingegneria e Scienza dell'Informazione unless otherwise specified.

Academic year 2022-2023

- Advanced Programming (degree in Computer, Communication and Electronic Engineering). 6 credits

- Biological Data Mining (master degree in Quantitative and Computational Biology, CIBIO). 6 credits. (Teaching language: English.)
- Algorithms for bioinformatics (master degree in Computer Science, DISI). 6 credits (Teaching language: English)
- Bioinformatics (Doctorate course – Doctoral School Biomolecular Sciences, University of Trento). 6 hours. (Teaching language: English.) (to be given in July)

Academic year 2021-2022

- Advanced Programming (degree in Computer, Communication and Electronic Engineering). 6 credits
- Biological Data Mining (master degree in Quantitative and Computational Biology, CIBIO). 6 credits. (Teaching language: English.)
- Algorithms for bioinformatics (master degree in Computer Science, DISI). 6 credits (Teaching language: English)
- Bioinformatics (Doctorate course – Doctoral School Biomolecular Sciences, University of Trento). 6 hours. (Teaching language: English.)

Academic year 2020-2021

- Object-oriented Programming (degree in Electronics and Telecommunication Engineering). 9 credits.
- Advanced Programming (degree in Computer, Communication and Electronic Engineering). 6 credits
- Biological Data Mining (master degree in Quantitative and Computational Biology, CIBIO). 6 credits. (Teaching language: English.)
- Algorithms for bioinformatics (master degree in Computer Science, DISI). 6 credits (Teaching language: English)
- Bioinformatics (Doctorate course – Doctoral School Biomolecular Sciences, University of Trento). 6 hours. (Teaching language: English.)

Academic year 2019-2020

- Object-oriented Programming (degree in Electronics and Telecommunication Engineering). 9 credits.
- Biological Data Mining (master degree in Quantitative and Computational Biology, CIBIO). 6 credits. (Teaching language: English.)
- Algorithms for bioinformatics (master degree in Computer Science, DISI). 6 credits (Teaching language: English) (current semester)

Academic year 2018-2019

- Object-oriented Programming (degree in Electronics and Telecommunication Engineering). 9 credits.
- Biological Data Mining (master degree in Quantitative and Computational Biology, CIBIO). 6 credits. (Teaching language: English.)
- Algorithms for bioinformatics (master degree in Computer Science, DISI). 6 credits (Teaching language: English) (current semester)
- Bioinformatics (Doctorate course – Doctoral School Biomolecular Sciences, University of Trento). 6 hours. (Teaching language: English.)

Academic year 2017-2018

- Object-oriented Programming (degree in Electronics and Telecommunication Engineering). 9 credits.
- Biological Data Mining (master degree in Quantitative and Computational Biology, CIBIO). 6 credits. (Teaching language: English.)
- Bioinformatics. Module on Bioinformatics Algorithms. (master degree in Quantitative and Computational Biology, CIBIO). 6 credits (Teaching language: English)
- Bioinformatics (Doctorate course – Doctoral School Biomolecular Sciences, University of Trento). 6 hours. (Teaching language: English.)

Academic year 2016-2017

- Object-oriented Programming (degrees in Electronics and Telecommunication Engineering, Information and Business Organization Engineering). 9 credits.
- Laboratory of Biological Data Mining (master degree in Informatics). 6 credits. (Teaching language: English.)
- Bioinformatics. Module on Bioinformatics Algorithms. (master degree in Quantitative and Computational Biology). 6 credits (Teaching language: English).
- Bioinformatics (Doctorate course – Doctoral School Biomolecular Sciences, University of Trento). 6 hours. (Teaching language: English.)

Academic year 2015-2016

- Object-oriented Programming (degrees in Electronics and Telecommunication Engineering, Information and Business Organization Engineering). 9 credits.
- Laboratory of Biological Data Mining (master degree in Informatics). 6 credits. (Teaching language: English.)
- Bioinformatics (Doctorate course – Doctoral School Biomolecular Sciences, University of Trento). 6 hours. (Teaching language: English.)

Academic year 2014-2015

- Object-oriented Programming (degrees in Electronics and Telecommunication Engineering, Information and Business Organization Engineering). 9 credits.
- Laboratory of Biological Data Mining (master degree in Informatics). 6 credits. (Teaching language: English.)
- Bioinformatics (Doctorate course – Doctoral School Biomolecular Sciences, University of Trento). 6 hours. (Teaching language: English.)

Academic year 2013-2014

- Object-oriented Programming (degrees in Electronics and Telecommunication Engineering, Information and Business Organization Engineering). 9 credits.
 - Laboratory of Biological Data Mining (master degree in Informatics). 6 credits. (Teaching language: English.)
 - Bioinformatics (Doctorate course – Doctoral School Biomolecular Sciences, University of Trento). 6 hours. (Teaching language: English.)
- Academic year 2012-2013

- Object-oriented Programming (degrees in Electronics and Telecommunication Engineering, Information and Business Organization Engineering). 9 credits.
- Laboratory of Biological Data Mining (master degree in Informatics). 6 credits. (Teaching language: English.)
- Bionformatics (Doctorate course – Doctoral School Biomolecular Sciences, University of Trento). 6 hours. (Teaching language: English.)

Academic year 2011-2012

- Object-oriented Programming (degrees in Electronics and Telecommunication Engineering, Information and Business Organization Engineering). 9 credits.
- Laboratory of Biological Data Mining (Faculty of Science – master degree in Informatics). 6 credits. (Teaching language: English.)
- Bionformatics (Doctorate course – Doctoral School Biomolecular Sciences, University of Trento). 6 hours. (Teaching language: English.)

Academic year 2010-2011

- Object-oriented Programming (degrees in Electronics and Telecommunication Engineering, Information and Business Organization Engineering). 9 credits.
- Data Mining for Biological Data (Faculty of Science – master degree in Informatics). 6 credits. (Teaching language: English.)
- Bionformatics (Doctorate course – Doctoral School Biomolecular Sciences, University of Trento). 6 hours. (Teaching language: English.)

Academic year 2009-2010

- Object-oriented Programming (degree in Telecommunication Engineering). 9 credits.
- Data Mining for Biological Data (Faculty of Science – master degree in Informatics, with emphasis in Bioinformatics). 6 credits. (Teaching language: English.)
- Bionformatics (Doctorate course – Doctoral School Biomolecular Sciences, University of Trento). 6 hours. (Teaching language: English.)

Academic year 2008-2009

- Object-oriented Programming (degree in Telecommunication Engineering). 6 credits.
- Data Mining for Biological Data (Faculty of Science – master degree in Informatics, with emphasis in Bioinformatics). 6 credits. (Teaching language: English.)
- Environmental data management and analysis (Doctorate course in Environmental Engineering). 20 hours.
- Instance-Based Learning (Doctorate course - ICT doctorate school, University of Trento). 20 hours. (Teaching language: English.)
- Algorithms and Programming (degrees in Civil and Environmental Engineering). 3 credits.

Academic year 2007-2008

- Object-oriented Programming (degree in Telecommunication Engineering). 6 credits.
- Data Mining for Biological Data (Faculty of Science – master degree in Informatics, with emphasis in Bioinformatics). 6 credits. (Teaching language: English.)

- Environmental data management and analysis (Doctorate course in Environmental Engineering). 20 hours. (Teaching language: English.)
- Data Mining for System Biology. Master in Computational System Biology, Faculty of Science/COSBI, 60 hours.
- Algorithms and Programming (degrees in Civil and Environmental Engineering). 3 credits.

Academic year 2006-2007

- Object-oriented programming (degree in Telecommunication Engineering). 6 credits.
- Data Mining for Biological Data (Faculty of Science – master of science in Informatics, with emphasis in Bioinformatics, x Physics students) 6 credits, (Teaching language: English.)
- Instance-Based Learning (Doctorate course - ICT doctorate school, University of Trento). 20 hours. (Teaching language: English.)
- Environmental data management and analysis (Doctorate course in Environmental Engineering). 20 hours. (Teaching language: English.)

Academic year 2005-2006

- Object-oriented programming (degree in Telecommunication Engineering). 6 credits.
- Data Mining (Faculty of Science – master degree in Informatics, specialisation in Bioinformatics, offered also to Physics students). 6 credits.
- Environmental Data Mining (Doctorate course in Environmental Engineering). 20 hours. (Teaching language: English.)

Academic year 2004-2005

- Fundamentals of Computer Science (degrees in Civil Engineering, Industrial Engineering and Environmental Engineering). 5 credits.
- Computer Architectures (degree in Telecommunication Engineering). 3 credits.
- Data Mining Laboratory (degree in Engineering of Informatics and Organization). 6 credits.
- Data Mining (Faculty of Science – master degree in Informatics, specialisation in Bioinformatics, offered also to Physics students) 6 credits.
- Human-Computer Interaction (Faculty of Economy – master degree in Net-Economy). 5 credits.
- Instance-Based Learning (Doctorate course - ICT doctorate school, University of Trento). 20 hours. (Teaching language: English.)
- Introduction to Data Mining (Doctorate course in Environmental Engineering). 20 hours.

Academic year 2003-2004

- Fundamentals of Computer Science (degrees in Civil Engineering, Industrial Engineering and Environmental Engineering). 5 credits.
- Computer Architectures (degree in Telecommunication Engineering). 3 credits.
- Object-oriented programming (degree in Telecommunication Engineering). 6 credits.
- Computational Biology and Statistics (Faculty of Science – master degree in Informatics, specialisation in Bioinformatics, thought also for the degree in Physics). 6 credits.
- Human-Computer Interaction (Faculty of Economy – master degree in Net-Economy). 5 credits.

Academic year 2002-2003

- Fundamentals of Computer Science (degrees in Civil Engineering, Industrial Engineering and Environmental Engineering). 5 credits.
- Electronic Computers (degree in Telecommunication Engineering). 3 credits.
- Instance-Based Learning (Doctorate course - ICT doctorate school, University of Trento). 20 hours. (Teaching language: English.)
- Introduction to Data Mining (Doctorate course in Environmental Engineering). 10 hours.

Academic year 2001-2002

- General Psychology (Faculty of Psychology, University of Turin). 4 credits.

Academic year 2000-2001

- Methodology of Behaviour Science (Faculty of Psychology, University of Torino, Master of Science in Psychology).

Other teaching activities for the academic year 2000-2001: Cycle of seminars for students within the course Software Engineering at the Faculty of Science and at the Faculty of Engineering, University of Trento dedicated to UML and the use of the Rational Rose software. Seminar (6 hours) Introduction to machine learning and data mining for the doctorate students in Civil Engineering, University of Trento. Seminar (4 hours) Connectionist Cognitive Models for doctorate student in Cognitive Science, University and Politecnico di Torino.

Students Supervision

Graduate Students. Supervisor of Andrea Malossini (Ph.D. defense March 2007), Anton Bryl (Ph.D. defense March 2008), Nicola Segata (Ph.D. defense November 2009), Andrea Argentini (Ph.D. defense April 2012), Carmen Maria Livi (Ph.D. defense Aprile 2013), Luca Masera (Ph.D. defense June 2019) and co-supervisor of Aliaksandr Birokou (Ph.D. defense March 2009), Emanuela Collier (Ph.D. defense April 2013) and Francesco Asnicar (Ph.D. defense March 2018), in the ICT Ph.D. program. Alan Ramponi (Ph.D. defense June 2021). He currently co-supervise Enrico Zardini and Mariia Maltseva. Nine months of supervision of Chou You (Ph.D. student of Jilin University) during his stage in Trento. Six months of supervision of Chen Zhang, Wei Du and ZhongBo (Ph.D. Students of Jilin University).

Undergraduate Students. Supervision or co-supervision of Master students that are now Ph.D. (Andrea Sboner, Paolo Massa, Fabiano Dal Piaz, Andrei Papliatseyeu, Nicola Segata, Andrea Argentini).

Scientific appointments

2020- present member of the editorial Board of Data (<https://www.mdpi.com/journal/data>)

Program committee member of International Case-Based Reasoning events: ICCBR2001, ECCBR2002, ICCBR2003, ECCBR2004, ICCBR2005, ECCBR2006, ICCBR2007, ECCBR2008 and ICCBR2009, ICCBR2010 of WOA, ACM-SAC BIO 2010, ECML-PKDD2011, ECAI 2020, IJCAI 2020, IJCAI 2021, IJCAI 2022, IJCAI 2023.

2009-2011. Programme member of GMPF (Ph.D. programme in Genomics and Molecular Physiology of Fruits) at Fondazione Edmund Mach as a bioinformatics expert.

November 2006 – Technical program chair of CollaborateCom 2006, Atlanta, USA.

Co-chair with Luigi Portinale of the 5th European Workshop on Case Based Reasoning (EWCBR2K) in Trento, September 2000.

Other University appointments

2020-present Coordinator of the research program in Quantum Information and Computing, DISI, University of Trento. 2018-present Responsible Master program in Computer Science, DISI, University of Trento. 2017-2019 Bioinformatics research program at DISI, University of Trento. 2016-present member of the committee of the Master Degree in Quantitative and Computational Biology, University of Trento.

2013-2015 AVA procedure responsible for the degree in Information and Business Organization Engineering. 2004-2006 Coordinator of the Data Mining and Learning Systems research program at DIT, University of Trento.

From 2002 to 2006 member of the committee “orientamento” at the Faculty of Engineering, delegate to the individual study plans for the degree in Engineering of Information and Organization, member of the CAD of Information Engineering and of the CAD of Environmental Engineering.

2002-2014 and 2016-present Member of the Committee on Graduate Studies of the ICT International Doctoral School, University of Trento. 2013-2015 Member of the Committee on Graduate Studies of the Bioscience Doctoral School, University of Trento.

At the University of Torino delegate of the dean of the Psychology Faculty at the executive board of the consortium CISI and member of the committees of the Ph.D programs “Cognitive Science” and “Culture and Business”.

Relevant visits to other research institutions

December 1998 –February 1999 prof. John McCarthy research group, Department of Computer Science, Stanford University – seminar in Learning Series of prof. Pat Langley at the Center for the Study of Language and Information.

January 1999 – visit to Simon Fraser University, Vancouver Canada, research group of prof. Qiang Yang, Seminar on "Probability Based Metrics for Nearest Neighbor Algorithms".

January 2005 – visit to British Columbia University, Vancouver Canada, research group of prof. Raymond Ng.

May 2008 – visit to Jilin University, Changchun, China, research group of prof. Yanchun Liang. August 2010 – visit to Jilin University, Changchun, China, research group of prof. Yanchun Liang.

Conference participations

Participation with presentation of papers to:

- 13th Congresso Nazionale della Divisione Ricerca di Base in Psicologia, Padova 1994;
- Workshop Congiunto su Apprendimento Automatico e Percezione dell'Associazione Italiana per l'Intelligenza Artificiale Ancona, 1995;
- 4th Congress of the Italian Association for Artificial Intelligence Florence Italy 1995;
- Congresso Nazionale dell'Associazione Italiana di Psicologia, Sezione Ricerca di Base in Psicologia, Cesena 1995;

- 4th Workshop on Learning Robots, Karlsruhe Germany 1995;
- 13th International Conference on Machine Learning, Bari Italy July 1996;
- 18th Conference of the Cognitive Science Society, San Diego California 1996;
- 1th Workshop on Cognitive Modelling, Berlin, Germany 1996;
- 16th International Conference on Machine Learning, Bled, Slovenia, 1999;
- 3th International Conference on Case Based Reasoning Seeon, Germany, 1999;
- 5th European Workshop on Case-Based Reasoning, Trento, 2000;
- Workshop on Agents and Recommender Systems, Barcelona 2000;
- Agentlink meeting Praga, 2001;
- ECCBR Workshop on Personalized CBR Aberdeen, Scotland 2002;
- Agentlink meeting Amsterdam, 2002;
- German Workshop on Experience Management, Luzern 2003;
- CAMDA Durham North Carolina 2004;
- ENTER2005 Innsbruck, Austria 2005;
- Benelearn2005 Enschede The Netherlands 2005;
- LION, Andalo, 2007;
- CEAS, Mountain View 2007;
- MLDL, Leipzig 2009.
- SWIIS, Waterford 2012.

- **Participation to Research projects**

1995-1996, University of Torino – participation in the European project B-learn II devoted to application of machine learning techniques to robotics. 1997-1998, ICT-irst (now Bruno Kessler Foundation) – participation in the projects on Case-Based Reasoning and Telemedicine. During 1999 Coordinator of an experimental group in the tourism area. The project was financed by the University of Trento and involved a group of three people, who created a prototype web- based system. This system demonstrated how the advantages of Case-Based Reasoning could be used in the tourist area. In 2000 Coordinator of the project MIRVAC at ICT-irst (now Bruno Kessler Foundation). This project financed by the University of Trento was dedicated to the definition and development of a search engine for the cultural assets, which used agent technologies and proposed innovative functionalities. 1999-2000 Coordinator of the local node ICT-irst, Trento (Bruno Kessler Foundation) of the European network MLNET II on machine learning. 1999-2001 Research activity at ICT-irst (now Bruno Kessler Foundation) dedicated to the definition, formalization and application of the notion of “Implicit culture”. 2002-2003 Participation to the

project EDAMOK (DIT), research coordinator prof. Fausto Giunchiglia and Paolo Bouquet. 2002-2003 Participation to the project COFIN 2002 “Sistemi avanzati di ragionamento automatico per la rappresentazione e la verifica formale di sistemi complessi basati su estensioni non booleane di decisori per soddisfabilità proposizionale”, local coordinator prof. Fausto Giunchiglia. 2003-2004 Participation to the project COFIN 2003 “Tecniche di Intelligenza artificiale per il reperimento di informazione di qualità sul Web” National Coordinator prof. Marco Gori 2004-2005 Participation to the project COFIN 2004 “Linguaggi, modelli tecniche e strumenti per la scoperta, rappresentazione e gestione di mapping semantici tra ontologie di dominio/schemi eterogenei e distribuiti.” Local coordinator prof. Paolo Bouquet. 2004-2006 Responsible for the University of Trento of the project Qview funded by the local government. Coordinator Paolo Avesani, ITC-irst (now Bruno Kessler Foundation). 2007-2009 Participation to the PRIN project “Calcoli di processi e analisi di dati per la biologia dei sistemi”, local coordinator prof. Paola Quaglia. 2008-2010. Participation to project TRITON funded by the local government, scientific coordinator prof. GianPietro Picco.

Consulting

In 2001 consultant for a seminar series on Implicit Culture at ICT-irst. (now Bruno Kessler Foundation) Lecturer in Statistics and Data Analysis for research staff at the Istituto Agrario San Michele di San Michele all’Adige, Trento. (Now Edmund Mach Foundation)

Award

2009 Best paper award at MLDM 2009 for the paper “Fast Local Support Vector Machines for Large Datasets” by Nicola Segata and Enrico Blanzieri.

Publications

Edited Books

Enrico Blanzieri, Luigi Portinale (Eds.)

Advances in Case-Based Reasoning, 5th European Workshop, EWCBR 2000, Trento, Italy, September 6-9, 2000, Proceedings. Lecture Notes in Computer Science 1898. Springer 2000, ISBN 3-540-67933-2.

International Journals

Blanzieri, E., Pastorello, D., Cavecchia, V., Rumyantsev, A., Maltseva, M.
Evaluating the convergence of tabu enhanced hybrid quantum optimization
(2023) *Quantum Information Processing*, 22 (5), art. no. 205, 2023

Blanzieri, E., Leporini, R., Pastorello, D.
Local Approach to Quantum-inspired Classification
International Journal of Theoretical Physics, 62 (1), art. no. 4, 2023

Alessandro Cicerale, Enrico Blanzieri, Katiuscia Sacco How does decision-making change during challenging times? *PLOS ONE*, 17 (7 July) e0270117, 2022.

Enrico Zardini, Massimo Rizzoli, Sebastiano Disegna, Enrico Blanzieri, Davide Pastorello. Reconstructing Bayesian Networks On A Quantum Annealer.
Quantum Information and Computation, 22(15&16), pp.1320-1350, 2022.

Andrea Bonomi, Thomas De Min, Enrico Zardini, Enrico Blanzieri, Valter Cavecchia, Davide Pastorello
Quantum Annealing Learning Search Implementations
Quantum Information and Computation 22 (3&4), 0181-0208 2022

Pilati, S., Malacarne, G., Navarro-Payá, D., Tomè, G., Riscica, L., Cavecchia, V., Matus, J.T., Moser, C., Blanzieri, E.

Vitis onegene: A causality-based approach to generate gene networks in vitis vinifera sheds light on the laccase and dirigent gene families
(2021) *Biomolecules*, 11 (12), art. no. 1744, 2021.

Davide Pastorello, Enrico Blanzieri, Valter Cavecchia Learning adiabatic quantum algorithms for solving optimization problems. *Quantum Machine Intelligence* 3 (1), 1-19, 2021.

Enrico Blanzieri, Toma Tebaldi, Valter Cavecchia, Francesco Asnicar, Luca Masera, Gabriele Tome, Eleonora Nigro, Enrico Colasurdo, Matteo Ciciani, Chiara Mazzoni, Stefania Pilati. A Computing System for Discovering Causal Relationships among Human Genes to Improve Drug Repositioning. *IEEE Transactions on Emerging Topics in Computing* 2020.

Alexander Rumyantsev, Oleg Sukhoroslov, Anna Eparskaya, Enrico Blanzieri, Valter Cavecchia. Parameter Sweep Experiments in Hybrid Computing Systems with R Language. *International Journal of Innovative Technology and Exploring Engineering (IJITEE)* ISSN: 2278-3075, Volume-8 Issue-7S2, May 2019.

Davide Pastorello, Enrico Blanzieri Quantum annealing learning search for solving QUBO problems *Quantum Information Processing* 18 (10), 303, 2019

Stefano Borgo, Enrico Blanzieri Trait-Based Module for Culturally-Competent Robots *International Journal of Humanoid Robotics*, 1950028, 2019

Giulia Malacarne, Stefania Pilati, Samuel Valentini, Francesco Asnicar, Marco Moretto, Paolo Sonego, Luca Masera, Valter Cavecchia, Enrico Blanzieri, Claudio Moser Discovering Causal Relationships in Grapevine Expression Data to Expand Gene Networks. A Case Study: Four Networks Related to Climate Change. *Frontiers in Plant Science*, 9, 2018.

Francesco Asnicar, Luca Masera, Emanuela Collier, Caterina Gallo, Nadir Sella, Thomas Tolio, Paolo Morettin, Luca Erculiani, Francesca Galante, Stanislau Semeniuta, Giulia Malacarne, Kristof Engelen, Andrea Argentini, Valter Cavecchia, Claudio Moser, Enrico Blanzieri NES2RA: Network expansion by stratified variable subsetting and ranking aggregation *The International Journal of High Performance Computing Applications*, 1094342016662508, 2016.

Yan Wang, Guishen Wang, Di Meng, Lan Huang, Enrico Blanzieri, Juan Cui A Markov Clustering Based Link Clustering Method to Identify Overlapping Modules in Protein- Protein Interaction Networks *Current Bioinformatics* 11 (2), 221-233, 2016.

Moumita Roy, Farid Melgani, Ashish Ghosh, Enrico Blanzieri, Susmita Ghosh Land-cover classification of remotely sensed images using compressive sensing having severe scarcity of labeled patterns *IEEE Geoscience and Remote Sensing Letters*, 2015.

Yuxu Jiang, Yan Wang, Wei Pang, Liang Chen, Huiyan Sun, Yanchun Liang, Enrico Blanzieri Essential protein identification based on essential protein-protein interaction prediction by Integrated Edge Weights *Methods*. 83:51-62, 2015

Yan Wang, Huiyan Sun, Wei Du, Enrico Blanzieri, Gabriella Viero, Yanchun Liang Identification of Essential Proteins Based on Ranking Edge-Weights in Protein-Protein Interaction Networks *PLoS ONE* 9 (9), e108716, 2014.

Carmen Maria Livi, Enrico Blanzieri Protein-specific prediction of mRNA binding using RNA sequences, binding motifs and predicted secondary structures. *BMC Bioinformatics*. 15:123, 2014.

Wei Du, Zhongbo Cao, Yan Wang, Enrico Blanzieri, Chen Zhang, Yanchun Liang Operon prediction by Markov Clustering. *International Journal of Data Mining and Bioinformatics*, 9(4):424-443, 2014.

Wei Du, Zhongbo Cao, Yan Wang, Ying Sun, Enrico Blanzieri, Yanchun Liang Prokaryotic Phylogenies Inferred from Whole-Genome Sequence and Annotation Data *BioMed Research International* 2013: art. no. 409062, 2013.

Lan Huang, Guishen Wang, Yan Wang, Enrico Blanzieri, Chao Su Link Clustering with Extended Link Similarity and EQ Evaluation Division. *PLoS ONE* 8(6): e66005, 2013.

Chunbao Zhou, Shuqin Wang, Enrico Blanzieri and Yanchun Liang An entropy-based improved k-top scoring pairs (TSP) method for classifying human cancers *African Journal of Biotechnology*, 11(45):10438-10445, 2012.

Nicola Segata, Edoardo Pasolli, Farid Melgani, Enrico Blanzieri Local SVM Approaches for Fast and Accurate Classification of Remote Sensing Images *International Journal of Remote Sensing*, 33:6186-6201, 2012.

Aliaksandr Birukou, Enrico Blanzieri, Paolo Giorgini Implicit: a multi-agent recommendation system for web search *Autonomous Agents and Multi-Agent Systems* 24(1):141-174, 2012.

Toma Tebaldi, Angela Re, Gabriella Viero, Ilaria Pegoretti, Andrea Passerini, Enrico Blanzieri, Alessandro Quattrone Widespread uncoupling between transcriptome and translome variations after a stimulus in mammalian cells *BMC Genomics* 13:220, 2012.

Nicola Segata, Enrico Blanzieri Operators for transforming kernels into quasi-local kernels that improve SVM accuracy *Journal of Intelligent Information Systems*, 37(2):155-186, 2011.

You Zhou, Enrico Blanzieri, Mengmeng Zhang, Yanchun Liang, Xu Zhou An Algorithm for Recognizing Mislabeled and Abnormal Samples in Cancer Microarray *International Journal of Digital Content Technology and its Applications*, 5(11):198-205, 2011.

Nicola Segata, Enrico Blanzieri Fast and Scalable Local Kernel Machines *Journal of Machine Learning Research* 11:1883-1926, 2010.

Nicola Segata, Enrico Blanzieri, Sarah Jane Delany, Pádraig Cunningham Noise reduction for instance-based learning with a local maximal margin approach *Journal of Intelligent Information Systems* 35(2):301-331, 2010.

Andrea Argentini, Enrico Blanzieri About Neighborhood Counting Measure Metric and Minimum Risk Metric *IEEE Transactions on Pattern Analysis and Machine Intelligence* 32(4):763-765 2010.

Luca Pasolli, Farid Melgani, Enrico Blanzieri Gaussian Process Regression for Estimating Chlorophyll Concentration in Subsurface Waters from Remote Sensing Data *IEEE Geoscience and Remote Sensing Letters*, 7(3):464-468, 2010.

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