

Curriculum Vitae et Studiorum of **Pierangelo Veltri**

Full Professor of Computer and Biomedical Engineer

Surgical and Clinical Science Department Magna Graecia University of Catanzaro - Italy

Personal Information and contact details

Name and Surname

Date of birth

Place of birth

Citizen

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Foreign Language English and French

1 Professional experience and Short Biosketch

Full Professor of Computer Engineer, Informatics System and Biomedical Engineer at the Department of Medical and Surgical Sciences, University Magna Graecia of Catanzaro, and Full Professor of Clinical and Health Informatic Systems for the Master in Computer and Biomedical Engineering.

He is vicepresident and cofounder of the Scientific Italian Society in Biomedical Informatics and Health Informatics (SIBIM, <http://www.sibim.it>).

He teaches since 2000 (in Paris XIII University for 2 years and at university of Catanzaro from 2002). He teaches courses in the field of information systems, databases and programming systems for clinical information systems. Professor of Computer Science, Bioinformatics and Clinical Information System as part of degree programs at the School of Medicine of the University. Member of the teachers for PhD in chronic and complex diseases and PhD in Biomedical Engineering. Editor of the journal SIGBIO records, newsletter of the Special Interest Group in Bioinformatics and Clinical Informatics of ACM. From 1998 to 2002 he worked as researcher at INRIA in databases with constraints and their use for the representation and manipulation of spatial and temporal data. From 2000 to 2002 he collaborated with the LIPN (Laboratoire d'Informatique Paris Nord) department of Galilee Institut, directed by Prof. Christophe Fouquer. In 2000-2001 he joined the Xyleme project, and participates in the development of a query system for semi-structured documents. In the same period he taken numerous contacts with colleagues from international universities. In 2002 he collaborated in a study on the state of art about XML web documents, collaborating with colleagues in Canada and IBM of New Dheli. In 2003 he visited Ohio State University by Professor Mauro Ferrari, and from there begins the drafting of policy documents which then will create a series of initiatives at the University Magna Graecia, including the establishment the PhD course and the start of interdisciplinary projects in the biological and medical engineering. He maintains relations and

collaborations with several professors from international university (such as University of Buffalo, University of Dublin, University of Irvine, University of Florida), by exchanging PhD visiting students and collaborating on several research topics.

2 Scientific indexes and titula

Full professor qualification for Biomedical Engineering and Informatics.Scopus index: 230 papers, 1144 citations, h-index = 21. Google Scholar index: 2291 citations, H index = 24 i10-index= 54.

Ph.D., in computer science at "University Paris Sud (Parigi XI, Orsay". grade "tres honorable". PhD thesis Title: A view mechanism for a large scale XML repository: design and implementation.Advisors Prof. Sophie Cluet and Prof. Stephane Grumbach.

From 1998 to 2002 research at INRIA, Paris and PhD student at University of Paris XI Orsay.

Master in Computer Engineer, cum laude in 1998.

3 Education

In the summer of 1997 he obtained the certificate of participation to the stage on Telecommunication Systems organized by Telecom Italy S.p.A. at the High School Guglielmo Reiss Romoli in Aquila for 20 selected students among undergraduates in Computer Engineering and Telecommunications of the Italian universities. On April 9 1998 he obtained a degree in Computer Engineering with specialization in Electronics and Telecommunications, with 110/110 cum laude and thesis about CSQL3: a language for spatial data bases (supervisor Prof. Domenico Sacc and Prof. Sergio Greco). In 1998 he obtained a certificate of participation by the IT Confor Company for a specialization course on Oracle system. In May 1998 he received authorization to pursue the profession of engineer. From November 1998 to October 2002 he was researcher at the INRIA Rocquencourt in the VERSO group, and PhD student at the Paris XI Orsay University. The October 1, 2002 he attained the title of it Docteur de Recherche, Ph.D., computer specialty, by Paris Sud (Paris XI, Orsay) University with honors mention en tres honorable. Title of the thesis: A view mechanism for a large XML repository stairs: design and implementation' (Supervisors Prof. Sophie Cluet and Prof. Stphane Grumbach).

4 Teaching activity

Currently teacher of Advanced Databases and Health Systems for the Master Degree in Biomedical En- gineering and Databases and Information Systems for the Degree in Biomedical Engineering. Over the years, he has held numerous courses in the field of information systems for the Degree in Computer and Biomedical Engineering, in Medicine and Law. Briefly:

- since 2002, teacher in Data Base, Software Engineering, The processing of the information Systems and Bioinformatics courses for Degree in Biomedical Engineering and Biotechnology.
- in 2007-2010, teacher of Foundations of Computer Science I, Evolved environments for databases, Medical informatics and Health Systems.
- from 2014, teacher in Computer Science and Computer Systems course for the Degree in Medicine and Surgery.
- in 2000-2002, teacher of Introduction to Programming and data base for the Master Degree in Computer Engineering at Galile Institute University of Paris XIII (Villetaneuse). Lessons in French. He has taught in the Erasmus program at the Krakow University.
- over the years he has held a number of teaching courses in the field of Master Courses delivered by the three Calabrian universities.

5 Research Activity

He focuses on a variety of research activities; some are listed below.

5.1 Clinical Information Systems

The collaboration with colleagues from the University Hospital Mater Domini of Catanzaro allows space for research applied to clinical areas. Following some projects are reported.

Vocal signal analysis Thanks to a collaboration with the Clinical Laboratory of Otolaryngology (contact Prof. A. Garozzo), is being developed a web-based system for analysis and subsequent classification of healthy and pathological voices. The developed web-based system integrates analytical procedures for frequencies analysis and allows the patient to carry out independently test and the clinician to monitor the status of his patients (post surgery) or to analyze new cases. A prototype system called Reva was developed and it is undergoing testing at the Otolaryngology Laboratory. Recently, equivalents of this system were carried out on the mobile platform.

Integration of data from medical records Numerous experiences of clinic and data management have been performed and integrated solutions for data analysis and Electronic Health Booklet have been developed.

Cardiolab: an information system to hemodynamic An information systems support to hemodynamic unit has been developed in collaboration with the hemodynamic team of prof. Ciro Indolfi, and a series of projects aimed at creating a multi-media data integration have been started. Cartesio is the first system realized with the aim to optimize decision-making processes related choice about the size of stents to be placed in angioplasty

operations. Sizing has been performed by using the clinical experience of the surgeon involved. Furthermore, systems for prediction of atrial fibrillations, by means of on-line analysis of signals from polygraph, have been developed.

DICOM Image Analysis from Nuclear Medicine unit In collaboration with the nuclear medicine and neuroradiology group, softwares for the analysis and interaction with PET or MRI type diagnostic systems have been developed. An algorithm based on ROI (regions of interest) has been developed in order to support the diagnostic examination by the medical expert. AutoSPET platform has been designed for the automation of biomedical images processes using internationally recognized software such as SPM. Finally, a software for image analysis and mnemonic patient response, named Estimate has been developed to obtain the results published in the medical field.

5.2 Databases and Information Systems

Spatial databases and queries optimization He started his activities for research on spatial information systems, dealing especially of models related to the representation of spatial and temporal data. In particular, the research focuses on the strand of spatial data management systems based on model with linear constraints, where linear equations are used for the representation of spatial and temporal information. In this context, it offers the optimization techniques of queries on spatial data, based on data filtering techniques. These techniques have been implemented and tested in DEDALE system (<http://gemo.futurs.inria.fr/dedale/>), a prototype of data management system based on linear constraints. In 2002, his responsibilities towards the geographic systems that allowed him to drive a research project of DEIS Department at University in Calabria, with the Authority at the basin region of Calabria in view of developing a system for monitoring the storm the Calabrian mapping system and changes on risk areas. In addition, the design and implementation of a geographic information system that can monitor the clinical information on a territory at regional or national level for the prevention and monitoring of the spread of geographical illnesses has been performed.

Semi-structured databases and integration of heterogeneous sources He and Verso group began a project for the definition of a data warehouse for web data. This research project (Xyleme) requires the study and the definition of its different forms of management systems for databases. In this direction, he undertakes the design of a large XML repository query system. In this direction, initially a query system for XML documents has been defined represented in a tree structure on two levels, which only made internally from unstructured text. Moreover, he proposes a system of views on XML data that enables to define a query on an abstract tree (a fact view) done of terms related to the ontological representation by means of the repository documents. An automated system allows to translate the interrogation of views on a set of queries on the repository document has been developed.

5.3 Bioinformatic

Experiences in information management and optimization of information in biology are used to support and enhance the information extraction and to maximize the information obtained from laboratory and clinical experiments. In this direction, the contribution is given especially to the definition of systems in support of laboratory experiments on proteins (proteomics), on genes (genomics) but also on clinical systems.

Proteomics and mass spectrometry From 2004, he is concerned with biological data from the mass spectrometer. A mass spectrum allows to associate to a biological sample deposited on a glass slide, information about the qualitative and quantitative content of protein. From the biological point of view, the association of protein information with any pathology present in the donor of the biological sample the patient can be a valuable information for studying and designing therapies. The work focuses in particular towards the study of hereditary cancers, with the design of a platform aimed to support the stages of study and analysis of colleagues in molecular biology and medical oncology.

GQuadruplex prediction From 2012 he works to the definition of a prediction prototype system of quadruplex structures or conformations and folding on RNA strands that can inhibit protein synthesis linked to some genes with the aim of defining the data analysis for prediction of structures and behaviors techniques.

6 Research Projects and Grants

6.1 Responsible and PI of projects with Grants

- **PON Mise 2019: Validating Query Answering.** Scientific referent for University of Catanzaro for 800k euros.
- **Regional funds for Epidemiologic Project PIH GIS.** Grant responsible for POR FESR 2013-2020 European funds for an epidemiologic project to define a unified platform. Project funded for 600 k euros, 150k euro for University of Catanzaro.
- **Regional POR Telemetria 4.0, 2017-2019.** Responsible for the grant of 100 k euros, value for the project 650k euros to define optimization algorithm for ground transportation.
- **Regional funds for PIA - GIDAC, 2014-2016** Responsible for the grant of almost 500 k euros, with a company. Value for University of Catanzaro 110k euros.
- **CCM Project for geographical clinical data analysis - Ministero della Salute 2012-2014** . Responsible of a project for 320k euros of funds, 80k for university, for the study of a geographic system.
- **Responsible for P2P -CKMS-SSDM: to develop intelligent support systems for clinical data , 2004-2005.** Responsibl for the design and development of clinical integrated system for clinical data.

- **Wi-Fi Sud S. Venuta. 2008 -2011** Responsible for refactoring of students and faculty tracking system. (budget 500 k euros).

6.2 Member of research projects

Member of several research projects funded by regional or national funds.

- **POR Regional funds Sistabene 2017-2020.** Co responsible for a research project on agricultural tracking: this project allows to track production and contents in food for final consumer. An App has also been developed. Grant of 150k euros for university of Catanzaro.
- **POR Simpatico 3D, 2017-2019.** Co responsible of a project for the definition of a 3D acquisition and analysis system for DICOM images. Value of the grants 120k euros.
- **INNOPROST - 2017: 2020.** He participates for a subgrant of 30k euros (value of the project 600 k euro) for a project of data tracking for prostate data analysis from clinical data to spectrometric data.
- **K in F Knowledge in Farm . 2007** Member of the project for development of knowledge discovery in agricultural processes.
- **PON Cardiotech 2012-2014 .** Project member and responsible for the development of a system tool to acquire and design stent during glive hemodynamic procedures.
- **PON Smart Health 2013-2015** Co-responsible for the project financed by Italian ministry to develop applications for life science and wellness. Responsible for the post-laurea master funded by the project.
- **PON Dicet InMOTO 2013-2015** Project member responsible for the development of tracking models for GSM and GPS mobile infrastructures to track touristic flows.
- **PRIN GenData2020 (2012-2015)** He participated as external researcher of University of Calabria, to a PRIN project for development of database platform for genomic data by using NGS (Next Generation Sequencing) data.
- **EasyDoc - PIA (2013-2015)** Partecipa al progetto per conto dell'Ateneo di Catanzaro. Fondi regione Calabria, finalizzato allo sviluppo di un sistema per l'estrazione di informazioni da PDF.
- **Progetto Sircom (2009-2015).** Partecipa al progetto che vede lo sviluppo di piattaforme di supporto virtuale alla visita di ambienti turistici. Finanziato su fondi FIT, ministero dello sviluppo, partecipa come referente di Ateneo nella Sciarl Cultura e Innovazione. Capofila Infobyte s.p.a.
- **PON ICARE (2013-2016)** Member of a project funded by Italian Ministry for tissue bioengineer.

- **PON Ba2Know (2013-2016)** Member of the research project funded by Italian Ministry.

7 Editorial activities

Program committee co-chair for ACM BCB (Bioinformatics, Computational Biology and Biomedicine) 2019. Program chair for the Analytics Track for IEEE ICHI 2021 (International Conference on Healthcare Informatics). Proceedings co-chair for BIBM 2020. He organized for several editions workshops for BIBM conference, and for ICCS conference always gathering papers for health informatics and bioinformatics.

From 2014, Editor for the della ACM SIGBio Record. Co-chair for a Special Issue of JOCs Elsevier 2011 on Advanced Computing Solutions for Health Care and Medicine. Co-chair for a special issue in the TCBB ACM transaction and for an issue of Journal of Computational Science.

Editorial Board member of the Springer Healthcare Informatics Journal, of the BMC health informatics and decision systems. PC Member, Publicity chair of the ACM BCB from 2015 to 2018. Co-chair for a workshop in the Computer-Based Medical Systems (CBMS) from 2006 to 2011. PC member of several conferences such as: Computational Science (ICCS, 2008 to 2015), CBMS 2014, and 2015, World Wide Web (WWW) 2004, ACM Workshop on Web Information and Data Management (WIDM 2006), Conference on Web Intelligence (WI) 2005. IWBNA workshop for ACM BCB

7.1 PhD School dissertation committee member

PhD advisory board for University of Dublin, in 2012 and in 2021, for University of Reggio Calabria in 2015, for Unical mathematical department in 2014 and for Computer Science department in 2019. President of the evaluation committee board for Biomedical Engineer PhD at University of Pavia in 2018.

7.2 International Collaboration

From 1998 to 2002 he worked at the INRIA of Rocquencourt doing training and experience of international collaborations. From 2000 to 2002 he worked with Sophie Cluet for the development of a system for integrating and querying views on semi-structured data. In the same period he collaborated with the CEDRIC team of the CNAM (Conservatoire Nationale des Artes et M'etiers) laboratories, in particular with Dr. Philippe Rigaux, responsible for the project of the Query Language component of the DEDALE system for spatial data. He collaborates with the LIPN (Laboratoire d'Informatique Paris Nord) department of the Institut Galilee, directed by Prof. Christophe Fouquer e.

In 2003 he collaborated on a study on the state of the art on XML documents on the web, with colleagues from Canada and IBM from New Dheli.

In 2003 he went to visit the Ohio State University by Prof. Mauro Ferrari, and collaborated in the drafting of programmatic documents that would then give rise to a series of initiatives at the University of Magna Graecia, including the establishment of the

doctorate. research and the initiation of interdisciplinary projects in the medical biological and engineering fields.

From 2007-2008 he collaborated with Prof. Gianluca Pollastri of the University of Dublin on activities related to the Prediction of protein structures.

In 2011, thanks to some collaborations in organizing conferences, a collaboration began with the University of Buffalo (Prof. Aidong Zhang, now the University of Virginia) and with the University of Irvine (CA) (Prof Pierre Baldi).

From 2013 he began a collaboration with international groups that deal with health informatics. He writes an edited book on Process Management in Healthcare Processes (CRC press 2017) [ref CRCBook2018].

He began a collaboration with the University of Florida in 2016 after an invitation to hold a lecture at the Department of Epidemiology thanks to the collaboration with Prof. Mattia Proserpi. Subsequently, a collaboration began with the epidemiology department first and with that of computer science (Prof. Tamer Kavechi) subsequently, thanks to the exchange of doctoral students (October 2018- November 2019) and post docs (May 2016- November 2016).

Similarly, a collaboration began in May 2017 with the Massachusset General Hospital on a clinical data integration project, which currently hosts a UMG doctoral student.

8 System Prototypes and research

During his activity he has participated in the design and development of numerous systems and prototypes in the field of research projects. The main ones are listed below.

DEDALE and epidemiologic GIS The DEDALE system is a prototype of a spatial database management system based on the theory of linear constraints for the representation of information. DEDALE, in its first version is based on the object system. Pierangelo Veltri contributed to the development of the parser and executor of the SQL like query language for DEDALE.

Xyleme (2000-2001) Xyleme is a data warehouse containing XML data coming from the Web. A series of advanced services are designed on this data, including an intelligent query system, a document historicization system and a system for subscribing to changes in published documents. The system created saw the participation of about 40 researchers and developers. In this project Pierangelo Veltri, part of the Xyleme Query team, designed and developed a view system for querying XML documents. He also participated in the design of the query engine and crawler.

Clinical Database System (SIGMCC 2004-2006) He contributed to a platform for integrating and sharing clinical data in a peer to peer network.

Vocal signal analysis (ReVA, VOTA App 2008-until today) Responsible for the research project to develop a voice analysis system for disease early detection. The system has been used to analyze data in clinical and neurological status.

Mass spectrometry data (2006-2013) Responsible of the development of a system to analyze and preprocess spectrometry data from biological sample (Eipeptidi and MS Analyzer).

JSSPred (2007-2013) Responsible for the design and development of a secondary structure prediction tool for proteins interactions.

Cartesio Hemodinamic bioclinical data Responsible for the design and participate to implementation of a system to guide clinicians while implanting stents. The system works in hemodinamic room at University Hospital.

Epidemiologic and Geograohic data (2003-2007) The experience in spatial data management systems, together with the experience in clinical data management, has led to the design and development of the Geomedica system, an online tool for monitoring the epidemiological distribution on the territory.

AutoSPET Thanks to the collaboration with Prof Cascini's Nuclear Medicine group, an automation system for statistical analysis on PET data and images was developed. The images are analyzed through the well-known SPM system, but in the case of large amounts of data (in the order of hundreds of patients), thanks to the use of the AutoSPET system it is possible to simplify the execution and analysis of the statistical results obtained by standard tools. such as SPM. The system, which also hosts a database for the historicization of the experiments, was published on the official website of SPM.

JLabChart Responsible for the development of a system for measuring proximal distal pressure values in case of coronary stenosis to verify and certify the quality of angioplasty interventions.

9 Teaching Activites

He teaches database systems and database for clinical structure. He also teache computer science for nursery classes and 2 classe in a PhD course.

Tutor for 8 Phd students (2 of them have now positions at Univeristy, 3 make research (one in Boston and two in clinical structures) and 3 work in indutry.

9.1 Teaching in foreign Universities

He gave classes at University of Paris XIII and short classes at University of Vilnius

10 Scientific Papers

10.1 Books

1. Carlo Combi, Giuseppe Pozzi, Veltri Pierangelo (2017). Process Modeling and Management for Healthcare. Boca Raton, FL: CRC Press, Taylor and Francis Group .

10.2 Journal Publications

1. Pattern discovery in multilayer networks Y Ren, A Sarkar, P Veltri, A Ay, A Dobra, T Kahveci IEEE/ACM Transactions on Computational Biology and Bioinformatics 2021
2. Regional resource assessment during the covid-19 pandemic in italy: Modeling study PH Guzzi, G Tradigo, P Veltri JMIR Medical Informatics 9 (3), e18933
3. Data science in unveiling COVID-19 pathogenesis and diagnosis: evolutionary origin to drug repurposing J Kumar Das, G Tradigo, P Veltri, P H Guzzi, S Roy Briefings in Bioinformatics 22 (2), 855-872
4. Regional Resources Assessment during Covid-19 Emergency: the Italian case. PH Guzzi, G Tradigo, P Veltri JMIR Medical Informatics
5. Atrial myxomas arise from multipotent cardiac stem cells M Scalise, M Torella, F Marino, M Ravo, G Giurato, C Vicinanza, ... European heart journal 41 (45), 4332-4345
6. SL-GLAlign: improving local alignment of biological networks through simulated annealing M Milano, W Hayes, P Veltri, M Cannataro, PH Guzzi Network Modeling Analysis in Health Informatics and Bioinformatics 9 (1), 1-16 1 2020
7. Extracting dense and connected communities in dual networks: an alignment based algorithm PH Guzzi, E Salerno, G Tradigo, P Veltri IEEE Access 8, 162279-162289
8. Reduction in global myocardial glucose metabolism in subjects with 1-hour postload hyperglycemia and impaired glucose tolerance E Succurro, E Pedace, F Andreozzi, A Papa, P Vizza, TV Fiorentino, P. Veltri et al Diabetes care 43 (3), 669-676 5 2020
9. Melanoma detection by means of multiple instance learning A Astorino, A Fuduli, P Veltri, E Vocaturo Interdisciplinary Sciences: Computational Life Sciences 12 (1), 24-31 27 2020
10. Model and application to support the coronary artery diseases (CAD): development and testing LT Gaudio, P Veltri, S De Rosa, C Indolfi, G Fragomeni Interdisciplinary Sciences: Computational Life Sciences 12 (1), 50-58

11. Spatio-temporal resource mapping for intensive care units at regional level for COVID19 emergency in Italy PH Guzzi, G Tradigo, P Veltri International journal of environmental research and public health 17 (10), 3344
- 12.
13. Alessandro Salatino, Ilenia Aversa, Anna Martina Battaglia, Alessandro Sacco, Anna Di Vito, Gianluca Santamaria, Roberta Chirillo, Pierangelo Veltri, Giuseppe Tradigo, Annalisa Di Cello, Roberta Venturella, Flavia Biamonte and Francesco S. Costanzo. H-ferritin affects cisplatin-induced cytotoxicity in ovarian cancer cells through the modulation of ROS. Oxidative Medicine and Cellular Longevity - Hindawi (2019). Volume 2019, Article ID 3461251. <https://doi.org/10.1155/2019/3461251> Biochemistry Q1. Medicine (miscellaneous) Q1. IF 4.868.
14. Monica Jha, Pietro Hiram Guzzi, Pierangelo Veltri, Swarup Roy. Functional module extraction by ensembling the ensembles of selective module detectors. Int. J. Computational Biology and Drug Design, Vol. 12, No. 4, 2019. Computer Science Application Q3.
15. Annabella Astorino; Antonio Fuduli; Pierangelo Veltri; Eugenio Vocaturo. Melanoma Detection by Means of Multiple Instance Learning. Interdisciplinary Sciences: Computational Life Sciences <https://doi.org/10.1007/s12539019-00341-y>. (Luglio 2019). IF 1.418
16. Patrizia Vizza, Giuseppe Tradigo, Domenico Mirarchi, Roberto Bruno Bossio, Nicola Lombardo, Gennarina Arabia, Aldo Quattrone, Pierangelo Veltri. Methodologies of speech analysis for neurodegenerative diseases evaluation. International Journal of Medical Informatics 122: 45-54 (2019). Scimago J Rank: Q1 health informatics IF 2.73 (2018) VocalTriangle
17. Giuseppe Tradigo, Patrizia Vizza, Gionata Fragomeni, Pierangelo Veltri. On the reliability of measurements for a stent positioning simulation system. International Journal of Medical Informatics 123: 23-28 (2019). Scimago J Rank: Q1 health informatics IF 2.73 (2018)
18. Vicinanza C, Aquila I, Cianflone E, Scalise M, Marino F, Mancuso T, Fumagalli F, Giovannone ED, Cristiano F, Iaccino E, Marotta P, Torella A, Latini R, Agosti V, Veltri Pierangelo, Urbanek K, Isidori AM, Saur D, Indolfi C, Nadal-Ginard B, Torella D (2018). Kitcre knock-in mice fail to fate-map cardiac stem cells. **NATURE**, ISSN: 00280836, doi: 10.1038/nature25771. IF: 41.57; Scimago J Rank: Q1 Multidisciplinary
19. Milano M., Guzzi P.H., Tymofieva O., Xu D., Hess C., Veltri P., Cannataro M. An extensive assessment of network alignment algorithms for comparison of brain connectomes. BMC BIOINFORMATICS, vol. 18, ISSN: 1471-2105 (2017).

- Scimago J Rank: Q1 Computer Science Application. IF 2.970 (2018)
20. Vicinanza C, Aquila I, Scalise M, Cristiano F, Marino F, Cianflone E, Mancuso T, Marotta P, Sacco W, Lewis F, Couch L, Shone V, Gritti G, Torella A, Smith A, Terracciano C, Britti D, Veltri P., Indolfi C, Nadal-Ginard B, Ellison-Hughes GM, Torella Daniele.
Adult cardiac stem cells are multipotent and robustly myogenic: c-kit expression is necessary but not sufficient for their identification.
Cell Death and Differentiation, ISSN: 1350-9047, doi: 10.1038/cdd.2017.130 (2017).
Scimago J Rank: Q1 in Cell Biology and Molecular Biology. IF 8.309 (5 anni)
 21. Mirarchi D., Canino G., Vizza P., Veltri Pierangelo, Cuomo S., Petrolo C., Chiarella G. Data mining techniques for vestibular data classification.
Int. Journal of Internet Technology and Secured Transaction, ISSN: 1748-569X Vol 1 (2017). doi: 10.1504/IJITST.2017.085734.
Scimago J Rank Q3 in Computer Science Application
 22. Vizza P., Tradigo G., Guzzi P. H., Curia R., Sisca L., Aiello F., Cascini LG, Veltri P (2017).
Innovative Framework for Bioimage Annotation and Studies.
Interdisciplinary Sciences: Computational Life Science, ISSN: 1913-2751.
Scimago J Rank Q3 in Health Informatics and Computer Science Applications. IF 1.418 (2018)
 23. Canino G., Guzzi P.H., Tradigo G., Zhang A., Veltri P.(2017).
On the Analysis of Diseases and Their Related Geographical Data.
IEEE Journal of Biomedical and Health Informatics, ISSN: 2168-2194 .
Scimago J Rank: Q1 Computer Science Application; Q1 Health Informatics IF 4.217
 24. Vizza Patrizia, Tradigo Giuseppe, Mirarchi Domenico, Bossio Roberto, Veltri Pierangelo(2017).
On the Use of Voice Signals for Studying Sclerosis Disease.
COMPUTERS, ISSN: 2073-431X, doi: 10.3390/computers6040030
 25. Gerardo Perozziello, Patrizio Candeloro, Antonio De Grazia, Francesco Esposito, Marco Allione, Maria Laura Coluccio, Rossana Tallerico, Immanuel Valpapuram, Luca Tirinato, Gobind Das, Andrea Giugni, Bruno Torre, Veltri Pierangelo, Ulrich Kruhne, Giuseppe Della Valle, Enzo Di Fabrizio (2016).
Microfluidic device for continuous single cells analysis via Raman spectroscopy enhanced by integrated plasmonic nanodimers.
OPTICS EXPRESS, vol. 24, ISSN: 1094-4087, doi: <https://doi.org/10.1364/OE.24.00A180>. Scimago J Rank Q1 in Atomic and molecular physics optic. IF 3.561
 26. Patrizia Vizza, Antonio Curcio, Giuseppe Tradigo, Ciro Indolfi, Pierangelo Veltri. A framework for the atrial fibrillation prediction in electrophysiological studies. In Computer Methods and Programs in Biomedicine journal. Vol. 120, Issue 2, July 2015, Pages 6576 (Elsevier).
Scimago J Rank in Q1 Computer Science Applications, Q1 Health Informatics. IF = 3.424

27. P.H. Guzzi, M. Milano, P. Veltri, M. Cannataro,
Using SSN-Analyzer for analysis of semantic similarity networks
Network Modeling Analysis in Health Informatics and Bioinformatics 4 (1), 1-10,
2015. Springer. DOI <https://doi.org/10.1007/s13721-015-0077-2>
28. Pierangelo Veltri.
Management and Analysis of Biological and Clinical Data: How Computer Science May
Support Biomedical and Clinical Research.
Physics Procedia v. 62, 2015, pagg 29-35. DOI <https://doi.org/10.1016/j.phpro.2015.02.007>
29. Predrag Kukic, Claudio Mirabello, Giuseppe Tradigo, Ian Walsh, Pierangelo
Veltri, Gianluca Pollastri.
Toward an accurate prediction of inter-residue distances in proteins using 2D
recursive neural networks.
BMC Bioinformatics (v 15 issue 6, 2014).
Scimago J Rank Q1 in Computer Science Application. IF 2.970 (2018)
30. Patrizia Vizza, Giuseppe Tradigo, Demetrio Messina, Giuseppe Lucio Cascini,
Pierangelo
Veltri.
Methodologies for the analysis and classification of PET neuroimages.
Network Modeling Analysis in Health Informatics and Bioinformatics 2(4): 191-208
(2013). DOI <https://doi.org/10.1007/s13721-013-0035-9>
31. Patrizia Vizza, Giuseppe Tradigo, Pierangelo Veltri.
AutoSPET: An SPM plugin to automatize neuroimages PET analysis. Interdisciplinary
Science 2013. DOI:10.1007/s12539-013-0169-6.
32. Pietro Hiram Guzzi, Marianna Milano, Pierangelo Veltri and Mario Cannataro
Semantic similarities as discriminative features of protein complexes.
Current Bioinformatics Volume 8 (2013), Bentham Science Publishers. IF
1.189. Scimago J Rank Q3 in Computational Mathematics.
33. Francesco Fera, Luca Passamonti, Mohammad M. Herzallah, Catherine Myers,
Pierangelo Veltri, Giuseppina Morganti, Aldo Quattrone, Mark Gluck.
Hippocampal BOLD response during category learning predicts subsequent
performance on transfer generalization.
Human Brain Mapping. Volume 35, Issue 7, July 2014, Pages 3122-3131.
34. Pietro Hiram Guzzi, Pierangelo Veltri and Mario Cannataro.
J-TM Align: Efficient Comparison of Protein Structure Based on TM-Align.
Current Bioinformatics Volume 8, (2013), Bentham Science Publishers. IF
1.189. Scimago J Rank Q3 in Computational Mathematics.
35. Francesco Gullo, Giovanni Ponti, Andrea Tagarelli, Giuseppe Tradigo, Pierangelo
Veltri.

- A time series approach for clustering mass spectrometry data. *Journal of Computational Science (JOCS) Elsevier - Volume 3, Issue 5, (Sept 2012)*. Scimago J Rank: Q1 in Computer Science. IF 2.502. .
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