

Curriculum Vitae di Rosalba Giugno

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Rosalba Giugno is Associate Professor in Computer Science at Department of Computer Science, University of Verona. She teaches at Master Degree in Medical Bioinformatics.

She got her bachelor degree in Computer Science at University of Catania in 1998. Her thesis was on the probabilistic programming checking following the Manuel Blum theory with tutor Prof. Ronitt Rubinfeld at Cornell University. She got the PhD in Computer Science from University of Catania in the 2003. For her Ph.D program, she has spent three years of research abroad, at University of Maryland, working with Prof. VS Subrahmanian, and at New York University working with Prof. Dennis Shasha.

Her research is focused on algorithms on graphs and biological networks, integration and analysis of biomolecular data, modeling of biological systems, and RNA interference. She is author of 120 scientific publications, 42 in international journals. In the last 5 years she is author of 60 publications, 26 in journals such as the Bioinformatics, Nucleic Acids Research, Database, BMC Bioinformatics, BMC Genomics, Journal Of Bioinformatics and Computational Biology, and Nature Biotechnology.

She was "Guest editor" of "Information Systems", "BMC Bioinformatics", and "Briefings in Bioinformatics". In 2014, she received the certificate for the design and implementation of the more efficient algorithm for searching in graphs in bioinformatics. She was invited speaker at several research centers such as the Memorial Sloan-Kettering Cancer Center, the New York University, and the Wyeth Research Lab in Boston. She participated in several national and European projects, also with industrial partners. She was in the coordination group of the SRP aimed at creating a platform for the analysis of NGS data to improve the wine production in the different areas of Sicily and projects for the identification of biomarkers and diagnostic methods by omics analysis.

She taught Bioinformatics, Database, and Data Mining. She was tutor of 6 PhD students at University of Catania, Pisa and Verona. She was tutor of two masters students at the school of computer science at New York University and at the Master in Bioinformatics, University of Catania. She was tutor of about 60 dissertations in computer science bachelor degree at the University of Catania. She is in the Scientific Committee of international conferences and schools. She is co-chair of the "Jacob T. Schwartz International School for Scientific Research in Bioinformatics and Computational Biology" (with A. Ferro, C. Croce and the Nobel Laureate M. Levitt).

She is referee for several international conferences and journals, recently she is review editor of Frontiers in Bioengineering and Biotechnology. She is faculty member in the PhD in Translational Biomedicine, at the University of Catania. She has a patent on the design of synthetic miRNA. She collaborates with bioinformatics and medical groups of University of Verona, the Institute of Genetics at Ohio State University, the Donnelly Centre at the University of Toronto and the School of Computer Science at University of Tel-Aviv and the bioinformatics groups of University of Copenhagen and University of Eastern Finland.