Professional curriculum of Giuseppe Scollo

7 September 2018

Education

Graduated in Electrical Engineering at the University of Catania, 10 november 1977, received his Ph.D. at the Faculty of Informatics of the Twente University (NL), 12 march 1993.

Work experience

In 1978 he was granted a scholarship by Politecnico di Milano to carry out research at the University of Catania.

In 1979 he was Research Assistant/Associate at IIASA (Laxenburg, Austria).

From November 1979 till January 1982 he collaborated with INFN for the design and implementation of the data acquisition system of Laboratorio Nazionale del Sud, in Catania.

From February 1982 till October 1986 he was tenure Researcher at the University of Catania, Institute of Informatics and Telecommunications.

He spent a sabbatical year at the University of Twente, NL, from November 1985 till October 1986, where he soon after joined the Faculty of Informatics as an associate professor (UHD) till December 1993.

From April 1994 till September 2001 he worked as private scientific consultant, whereby he collaborated with the University of South Australia, Adelaide (1994), the University of Catania (at the Department of Mathematics and Computer Science, in 1995 and, with a research grant, from December 1999 till September 2001) and the University of Verona, where he held on contract the courses of Programming languages (1996-1999, four editions) and Software engineering (2000-2001, two editions) in the Computer Science curriculum of the Faculty of Sciences MM FF NN.

In 2001 he was appointed associate professor in Computer Science at the University of Verona, where he joined the Department of Computer Science from October 2001 till October 2005 and held the courses of Software architectures and laboratory (2002-2005), Advanced and network programming (2002), Specification methods of software systems (2003-2005).

In November 2005 he moved to the University of Catania, where he joined the Department of Mathematics and Computer Science and currently holds the courses of Computer architecture and laboratory (A-L) in the undergraduate curriculum and of Dedicated systems in the graduate curriculum.

Research

He is currently investigating the integration of traditional and modern technologies in the design of inclusive tools for mathematical education. His more recent interests from previous research relate to problems in combinatorics [1, 2, 7], parallel algorithms for computational arithmetic [3, 4], and symbolic dynamical systems [5, 6], whereas during his career they range over the use of mathematical methods in the design of information processing systems and in language processing, with special attention to algebraic specification foundations and languages as well as to applications of industrial interest, such as the design of logical systems and of formal specification languages, the design and formal description of computer network services and protocols, the design of data acquisition systems. He authored over eighty papers in the field.

Riferimenti bibliografici

- M. Madonia and G. Scollo, Reducibility and Solvability of Some Classes of Kryuchkov Binary Tree Pairs, *Electronic Journal of Combinatorics*, 18:2 (2012) P32, 1–39.
 Web: http://www.combinatorics.org/ojs/index.php/eljc/article/ view/v18i2p32
- [2] G. Scollo, An integration of Euler's pentagonal partition, preprint, University of Catania, DMI, Cornell University Library, arXiv:1009.3645v1, 19 Sep. 2010. Web: http://arxiv.org/abs/1009.3645
- [3] G. Scollo, Results and programming techniques from the CR3x+1 project, in: R. Barbera, M. Iacono Manno, M. Fargetta (Eds.), *Proc. Final Workshop of Grid Projects Funded by "PON Ricerca 2000-2006 Avviso 1575"*, Catania, 10-12 Feb. 2009, Consorzio COMETA, Catania (2010) pp. 102–110. ISBN: 978-88-95892-02-3. Preprint: http://www.dmi. unict.it/~scollo/seminars/gridct2009/CR3x+1CTpreprint.pdf
- [4] G. Scollo, Looking for Class Records in the 3x+1 problem by means of the COMETA Grid Infrastructure, in: R. Barbera (Ed.), *Proc. Symp. "GRID Open Days at the University of Palermo"*, Palermo, 6-7 Dec. 2007, Consorzio COMETA, Catania (2008) pp. 255– 263. ISBN: 978-88-95892-00-9. Preprint: http://www.dmi.unict.it/~scollo/ seminars/gridpa2007/CR3x+1paper.pdf
- [5] G. Scollo, G. Franco and V. Manca, Relational State Transition Dynamics, J. of Logic and Algebraic Programming, 76:1 (2007) 130–144. Web: http://dx.doi.org/10. 1016/j.jlap.2007.07.003
- [6] G. Scollo, ω-rewriting the Collatz problem, Fundamenta Informaticæ, 64 (2005) 405–416. Preprint (U. of Verona, Dip. Informatica, DI RR 25/2004): http://www.dmi.unict. it/~scollo/papers/dirr0425.pdf
- [7] G. Scollo, An institution isomorphism for planar graph colouring, in: R. Berghammer, B. Möller, G. Struth (Eds.), *Relational and Kleene-Algebraic Methods in Computer Science*, LNCS 3051, Springer-Verlag, Heidelberg (2004) pp. 252–264. Longer preprint (U. of Verona, Dip. Informatica, DI RR 03/2003): http://www.dmi.unict.it/~scollo/ papers/dirr0303.pdf