

Francesco Giordano

CONTACT INFORMATION

Dept. of Electronic Engineering and Computer Science
University of Perugia
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RESEARCH INTERESTS

Network analysis and visualization, algorithms engineering, computational geometry. Special attention to application fields such as computer networks, information systems, and software engineering.

EDUCATION

University of Perugia, Perugia, Italy

Ph.D., Computer Science, February 2008
Dissertation Topic: "Computing Planar Drawings of Hierarchical Structures"
Advisor: Giuseppe Liotta

M.S., Electronic Engineering, September 2004
Dissertation Topic: "Design and development of a file sharing application, based on a novel peer-to-peer architecture"
Advisor: Giuseppe Liotta

PCSnet Umbria, Pearson VUE Authorized Center, Perugia, Italy

Microsoft Certified Solution Developer, May 2007

HONORS AND AWARDS

National Research Fellowship, 2007
National Ph.D. Fellowship, 2004
University of Perugia: graduated Magna Cum Laude, Honors in Electronic Engineering, 2004

ACADEMIC EXPERIENCE

University of Perugia, Perugia, Italy

Tutor **April, 2006 - October 2006**
Assisted graduate students of programming course (faculty of Engineering) to practice in laboratory.

Instructor **March, 2006**
Taught web-based application development in a specialization school for bachelor of science students. The school was focused on technology, economics and management of radio systems.

PUBLICATIONS

Journal Papers

- C. Binucci, W. Didimo, F. Giordano, Maximum Upward Planar Subgraphs of Embedded Planar Digraphs, *Computational Geometry: Theory and Applications*, to appear
- W. Didimo, F. Giordano, G. Liotta, "Overlapping Cluster Planarity", *Journal of Graph Algorithms and Applications*, special issue on APVIS 2007, to appear

Conference Papers

- Carla Binucci, Walter Didimo, Francesco Giordano, Maximum Upward Planar Subgraphs of Embedded Planar Digraphs, in Proc. Graph Drawing, GD 2007, ser. Lecture Notes in Computer Science, vol. 4875, pp. 195-206, 2008

- F. Giordano, G. Liotta, T. Mchedlidze, A. Symvonis, “Computing Upward Topological Book Embeddings of Upward Planar Digraphs”, in *Proc. ISAAC 2007*, ser. Lecture Notes in Computer Science, vol. 4835, 2007, pp. 172-183
- W. Didimo, F. Giordano, G. Liotta, “Overlapping Cluster Planarity”, in *Proc. APVIS 2007*, 2007, pp. 73-80
- M. Badent, C. Binucci, E. Di Giacomo, W. Didimo, S. Felsner, F. Giordano, J. Kratochvíl, P. Palladino, M. Patrignani, F. Trotta, Homothetic Triangle Contact Representations of Planar Graphs, in *Proc. CCCG 2007*, pp. 233-236
- W. Didimo, F. Giordano, G. Liotta, “Upward Spirality and Upward Planarity Testing”, in *Proc. Graph Drawing, GD 2005*, ser. Lecture Notes in Computer Science, vol. 3843, 2005, pp. 117-128

Submitted Papers

- W. Didimo, F. Giordano, G. Liotta, “Upward Spirality and Upward Planarity Testing”, *SIAM Journal of Discrete Mathematics*

Papers in Preparation

- F. Giordano, G. Liotta, S. Whitesides, “Upward Planarity with Vertices at Fixed Locations.”

PROFESSIONAL EXPERIENCE

University of Perugia, Perugia, Italy

Post Doc, Computer Science

December, 2007 - Present day

Research interests in algorithmics engineer with special regard to the design and develop of effective human - machine interaction systems for the information retrieval of complex relational data.

District Umbria, Perugia, Italy

Application Developer

April, 2006 - October, 2007

Member of a team working on analysis, design and implementation of a web-based application, aimed to store and to allow access to childrens environmental experiences for District Umbria. The application provides advanced research capabilities (by using a meta-search engine) and the most recent technological features (e.g. Ajax technology). Main activities and responsibilities:

- Analyzed requirements for the systems main module.
- Designed the module architecture.
- Developed the web application and implementing the database.
- Performed functional tests.
- Designed user interface.

Bio Data S.A.S. di Iannace M. e C., S. Marco Argentano - Cosenza, Italy

Partner, DBA

2001 - 2004

The company owned and managed a small laboratory for medical tests. Main activities and responsibilities:

- Managed and maintained the database.
- Successfully solved several technical issues.
- Developed a new model and a new architecture for the information system.

COMPUTER SKILLS **Languages:** C#, C and C++, JAVA, XML and XHTML, UML

IDE: Microsoft Visual Studio 2005, NetBeans

DBMS: Microsoft SQL Server 2005

Platforms: Windows xp/98/95, 2000, NT, Mandriva Linux.

Base Concepts: Software engineering, algorithms design, networking, operating systems, computer architectures

LANGUAGES English: Fluent spoken and written
 French and Spanish: Basic.

ADDITIONAL
INFORMATION Full clean driving licence.
 Abilities in playing guitar, violin and piano.
 Interests include volleyball and basketball.
 Marital status: Single.
 Nationality: Italian.