ANDRE PANISSON

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PERSONAL INFORMATION

Nationality: Brazilian
Resident of: Brazil
Birth date: 20 July, 1978
Birth place: Antonio Prado, RS - Brazil
Gender: Male

EDUCATION

PhD in Computer Science, 2009-2011
University of Turin, Italy
Thesis: "Selective Information Dissemination for Mobile Computing"
Advisor: Prof. Giancarlo Ruffo
Co-advisor: Dr. Ciro Cattuto

MSc in Computer Science, 2004-2006
Federal University of Rio Grande do Sul, Brazil
Dissertation: "Balancing the Management Load using a P2P-Based Network Management Solution"
Advisor: Dr. Maria Janilce B. Almeida
Co-advisor: Dr. Lisandro Zambenedetti Granville

Bachelor's Degree in Computer Science, 1999-2003
Federal University of Rio Grande do Sul, Brazil
Research Project: "Implementation of a Search Algorithm with Traffic Control and Topology Adaptation for P2P-Based Networks"
Advisor: Dr. Lisandro Zambenedetti Granville

EMPLOYMENT HISTORY

01/2012-present – Researcher at ISI Foundation
Institute for Scientific Interchange, Torino, Italy
Activities: Development of tools to facilitate the analysis, modeling, simulation and measurement of complex phenomena in systems that involve technological and social factors

01/2009-12/2011 – PhD Student at Dipartimento di Informatica
Università degli Studi di Torino, Italy
Activities: Computer Systems Research and Development – P2P, Social Networks, Recommender Systems, Mobile and Ad-Hoc networks

08/2008-12/2011 – Consultant at Xeffe
Activities: Consulting for the VTPie payment banking system. Engineering of legacy applications based on Open platforms, Java and SOA architecture.

02/2008-12/2008 – Temporary Researcher at Dipartimento di Informatica (WWS Project)
Università degli Studi di Torino, Italy
Activities: Computer Systems Research and Development – P2P, Social Networks, Recommender Systems

10/2002-01/2008 – Software Engineer
Public Ministry of the Rio Grande do Sul State, Brazil.
Government Organization
Activities: Computer Systems Research and Development, Database Systems Administration, System Programming and Analysis

01/2002-10/2002 – Member and collaborator of PET (Special Training Program)
Federal University of Rio Grande do Sul, Brazil
Activities: Computer Systems Research and Development

09/1999-01/2002 – Collaborator in NAVi (Virtual Learning Group)
Project at the Administration School
Federal University of Rio Grande do Sul, Brazil
Activities: Computer Systems Research and Development, E-Learning, Web Conference

TECHNICAL EXPERIENCE:

Languages: JAVA, Python, C, C++, UNIX shell scripts, HTML, Oracle PL/SQL
Platforms: Windows XP/98/95,2000,NT, Red hat Linux, Ubuntu
Architectures: P2P systems, J2EE, WebServices, SOA
Concepts: computer networking, computer network management, distributed systems, database systems, peer-to-peer, recommendation systems, mobile and ad-hoc networks

SKILLS / INTERESTS:

Social and Complex Networks
Collaborative Filtering and Recommendation Systems
User Mobility, Pervasive and Ad-Hoc Networks
Computer Networks and Management
Peer to Peer Systems
Systems analysis and Development – Internet, Web Services and SOA

LICENSES / CERTIFICATION / TRAINING:

JAVA Programming Language (2003)
J2EE Applications Architecture and Project (2004)
Oracle 9iAS: Develop Web-based Applications (2002)
Oracle Advanced PL/SQL (2003)

PROJECTS AND RESEARCH ACTIVITIES:

Complex Networks - SocioPatterns project (2009-present):
Interdisciplinary research project that adopts a data-driven methodology with the aim of uncovering fundamental patterns in social dynamics and coordinated human activity. It do so by developing and deploying an experimental social interaction sensing platform. This platform consists of portable sensing device and software tools for aggregating, analyzing and visualizing the resulting data.

Datainterfaces (2010-present):
Datainterfaces is a collaborative laboratory that aims to experiment with the development of interfaces and formats for the communication of data-rich scenarios. The laboratory stems from the collaboration between the Data Science Laboratory at ISI Foundation, the Communication Design Research Unit at the INDACO/Design Dept. of the Politecnico di Milano and the ARCS Group at the University of Torino.

Google Summer of Code (2010):

In April 2010, a project proposal with the Gephi development team has been accepted for the Google Summer of Code program. The program is the best way for students around the world to start contributing to an open-source project. Gephi's project aims to bring the perfect tool for visualizing and manipulating networks, focusing on usability, performance and modularity. The project timeline started at May 24 2010 and ended at August 16 2010.

RD-PVR: Recommendation & Discovery for Personal Video Recording (2009-2010):

The goal of this project is to use events discretization combined with a collaborative filtering approach to make good predictions of user's registrations, in the Personal Video Recording services domain. The approach is based on the analysis of real data generated by the Faucet PVR system, integrated in a web-based podcasting.

DeHinter (2008):

DeHinter is a Peer-to-Peer (P2P) recommender system that exploits social filtering techniques in order to implement a fully decentralized resource sharing platform. The system provides to users a way to share, search and retrieve contents in a scalable, flexible and efficient way. The spontaneous relationships between users that show similar interests shape highly connected thematic clusters that can be exploited to provide personalized advices. DeHinter's goal is to reduce the impact of the information overload provinding a decentralized, autonomous and efficient way to filter contents exploiting social-oriented phenomena.

GigaManP2P (2005-2007):

The management of long distance backbones based on high speed optical networks requires new solutions for challenging tasks. For instance, operators and users located at different administrative domains must communicate with each other in order to configure and monitor agreed quality of service levels. This project proposes a novel peer-to-peer (P2P) management architecture for optical networks, focused initially on the new RNP Giga backbone. In the proposed architecture, peers provide, in a ubiquitous fashion, management information to modules that interface with both the optical infrastructure and network users.

TEACHING:

University of Turin, VII Bando AA 2010/2011 art.33: Fundamentals of Cryptography and Network Security – Laboratory

University of Turin, Complex Neworks – 2 lessons about Graph Visualization, Graph Layouts and Dynamic Networks

University of Turin, VIII Bando AA 2011/2012 art.33: Computer Security II – Laboratory

PRESENTATIONS:

On Collaborative Filtering Techniques for Live TV and Radio Discovery and Recommendation

Paper presented at the 12th International Conference on Electronic Commerce and Web Technologies (EC-Web 2011), Toulouse, France

Understanding Information Spreading on Face-to-Face Contacts for Modeling Opportunistic/Delay-Tolerant Mobile Networks

and **Gephi for dynamical networks**

Both presented at the Workshop on Data Driven Dynamical Networks, September 26 to October 1st, 2010, Les Houches, France

Designing the Architecture of P2P-Based Network Management Systems.

Paper presented at the IEEE Symposium on Computers and Communications (ISCC 2006), 2006, Pula-Cagliari.

PUBLICATIONS

A. Panisson, A. Barrat, C. Cattuto, G. Ruffo, R. Schifanella. **On Human Proximity Dynamics for Data Diffusion through Ad-Hoc Networks**. Ad Hoc Networks, Special Issue on Social-Based routing in Mobile and Delay-Tolerant Netwoks (2011). Online, doi:10.1016/j.adhoc.2011.06.003

C. Melchiors, D. T. Mattjie, C. R. P. dos Santos, A. Panisson, L. Z. Granville and L. M. Tarouco. **A P2P-Based Strongly Distributed Network Polling Solution.** Advancements in Distributed Computing and Internet Technologies: Trends and Issues. IGI Global, 2012. 289-313.

A. Basso, M. Milanesio, A. Panisson, G. Ruffo. **On Collaborative Filtering Techniques for Live TV and Radio Discovery and Recommendation**. In Proc. of the 12th International Conference on Electronic Commerce and Web Technologies (EC-Web 2011), Toulouse, France, August 29 - September 2, 2011.

A. Basso, M. Milanesio, A. Panisson. **From Recordings to Recommendations: Suggesting Live Events in the DVR Context.** In RecSys 2010: Proc. of the International Workshop on the Practical Use of Recommender Systems, Algorithms and Technologies, Barcelona, Spain, 30 September 2010.

A. Basso, M. Milanesio, A. Panisson**. Social Aspects of Video Recording.** In AISB10: Proc. of the Thirty Sixth Annual Convention of the Society for the Study of Artificial Intelligence and Simulation of Behaviour, Leicester, UK, 29 March - 1 April 2010.

C. Melchiors, A. H. dos Santos, D. Mattjie, C. R. dos Santos, A. Panisson, L. Z. Granville, L. M. R. Tarouco. **A network polling solution through a P2P-based distributed management environment.** In SAC '10: Proceedings of the 2010 ACM Symposium on Applied Computing (Sierre, Switzerland, March 22 - 26, 2010). ACM, New York, NY, pp. 729-730.

R. Schifanella, A. Panisson, C. Gena and G. Ruffo. **MobHinter: Epidemic Collaborative Filtering and Self-Organization in Mobile Ad-Hoc Networks**. In RecSys 2008: Proceedings of the 2nd ACM Intern. Conf. on Recommender Systems, October 23-25, 2008, Lausanne, Switzerland. ACM Press.

C. C.. Marquezan, A. Panisson, L. Z. Granville, G. Nunzi, M. Brunner. **Maintenance of Monitoring Systems Throughout Self-Healing Mechanisms.** In DSOM 2008: Proceedings of the 19th IFIP/IEEE International Workshop on Distributed Systems: Operations and Management, 22-26 September 2008, Samos Island, Greece, pp. 176-188, 2008.

A. Panisson, G. Ruffo, and R. Schifanella. **X-hinter: a framework for implementing social oriented recommender systems.** In HT '08: Proceedings of the Nineteenth ACM Conference on Hypertext and Hypermedia (Pittsburgh, PA, USA, June 19 - 21, 2008). ACM, New York, NY, p. 235-236, 2008.

A. Panisson, D. M. Rosa, C. Melchiors, L.Z. Granville, M. J. B. Almeida, L. M. R. Tarouco. **Designing the Architecture of P2P-Based Network Management Systems.** In ISCC2006: Proceedings of the 2006 IEEE Symposium on Computers and Communications. p. 69-75, 2006.

L. Z. Granville, D. M. Rosa, A. Panisson, C. Melchiors, M. J. B. Almeida, L. M. R. Tarouco. **Managing Computer Networks Using Peer-to-Peer Technologies.** IEEE Communications Magazine, v. 43, n. 10, p. 62-68, 2005.

A. Panisson, M. J. B. Almeida, L. M. R. Tarouco, L. Z. Granville. **Implementação de um Algoritmo para Busca em Redes Peer-to-Peer. (Implementation of a Search Algorithm for P2P Networks).** In: Brazilian Workshop on Peer-to-Peer Systems (WP2P2005), 2005, Fortaleza. Proceedings, 2005. v. 1. p. 25-36.