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## Matteo Dell'Amico

PhD Student in Computer Science at University of Genoa.

An updated progress report on my PhD Thesis research is available at <http://www.disi.unige.it/person/DellamicoM/research/progress-report.html>.

More information about research and teaching activity, along with papers and lesson slides (in Italian) can be found on my home page (<http://www.disi.unige.it/person/DellamicoM/>).

### Personal Data

Born in Savona on November 8th 1979, not married.

### Research Interests

My current research revolves around the design of solid reputation systems for P2P applications. Such systems aim to increase reliability by encouraging cooperative behaviour between peers.

In current applications, cooperation is obtained through reciprocative strategies: peer give service to nodes that gave service to them in the past. Such systems are effective when any two nodes that are interacting in a given moment have high probability of meeting again in the close future (e.g., two peers that are downloading different parts of a big file). An analysis based on the whole history of past interactions between peers can bring the benefits of cooperation to a wider class of P2P applications.

The network of relationships between peers can be seen as complex networks; for this reason I aim to exploit the recurrent characteristics of this kind of networks, such as the small-world and scale-free phenomena, in order to implement reputation systems that are both efficient in encouraging cooperation and scalable, so that they can be deployed on networks having the size of millions of users.

### Publications and Technical Reports

- Matteo Dell'Amico, Highly Clustered Networks with Preferential Attachment to Close Nodes. *Proceedings of European Conference on Complex Systems 2006 (ECCS '06)*.

- Matteo Dell’Amico, Neighbourhood Maps: Decentralised Ranking in Small-World P2P Networks. *Proceedings of Third International Workshop on Hot Topics in Peer-to-Peer Systems (Hot-P2P 2006)*.
- Matteo Dell’Amico, Highly Clustered Networks with Preferential Attachment to Close Nodes. *DISI Technical Report DISI-TR-06-06*.
- Matteo Dell’Amico and Maura Cerioli, Do-CASL: an Observer-based CASL Extension for Dynamic Specifications. *AMAST, Lecture Notes in Computer Science, Vol. 4019, pp. 96-110, Springer, 2006*.
- Matteo Dell’Amico and Maura Cerioli, Injecting Distribution in CASL. *Foundations of Global Computing, Dagstuhl Seminar Proceedings, 2006*.

### Work and Academic Experience

- 2005–2007 Teaching assistant in the “*Sistemi Distribuiti – Peer-to-peer*” course (Distributed Systems – Peer-to-peer), held by Prof. Giovanni Chiola.
- 2006–2007 Teaching assistant in the “*Applicazioni di Rete 2*” course (Network Applications 2), held by Prof. Marina Ribaudò.
- 2003–present Administrator of the Jabber (<http://www.jabber.org>) instant messaging server `jabber.linux.it`, with circa 5800 registered users.
- 2000–2002 Part-time System Administrator at University of Genoa.

### Formation

- 2005–present PhD student at the Computer Science department of University of Genoa (DISI), under the supervision of Prof. Giovanni Chiola.
- 1998–2004 Laurea (equivalent to Master Degree) in Computer Science (110/110 *cum laude*) at University of Genoa. My master thesis regarded the state of the art of P2P applications, and the development of formal models for the description of P2P middleware.
- 2002–2003 Student at Universidad Politécnica de Valencia (Spain) with the Erasmus program.

### **Spoken Languages**

- Mother tongue: Italian.
- Very good knowledge of English and Spanish.