SHORT CURRICULUM VITAE

Pierangelo Di Sanzo, Ph.D.   **September 2016**

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Education

Ph.D. in Computer Engineering, Sapienza University of Rome, Italy (March 2012).
Thesis Title: "Performance Models of Concurrency Control Protocols for Transaction Processing Systems".

M.S. Degree in Computer Engineering, Sapienza University of Rome, Italy (February 2008). Final rank: 110/110 cum laude. Thesis deemed worthy of publication.

Research Interests

My research interests lie in the area of computing architectures and distributed systems, including:

Performance Modeling, Evaluation, optimization
- Analytical, simulation and machine learning-based performance modeling, workload characterization, performance analysis and evaluation

Performance Optimization and Self-tuning
- Workload/QoS-driven performance optimization
- Elastic-scaling and self-tuning data replication
- Self-optimizing concurrency mechanisms
- Adaptive workload monitoring and characterization

Concurrent and Parallel Programming:
- Synchronization mechanisms in concurrent applications
- Transactional Memories
- High performance simulation platforms

Cloud Computing:
- Cloud infrastructure and application performance analysis
- Auto-scaling/self-configuring cloud platforms
- Automated workload characterization

Energy-efficient computing:
- Energy efficiency models
- Energy optimization mechanisms in concurrent and distributed applications

Publications:

The list of my publications is available on my web site: http://www.dis.uniroma1.it/~disanzo/

Research positions

- September 2016 – Today
  Research Assistant at DIAG - Department of Computer, Control, and Management Engineering, Sapienza University of Rome, Italy.

- June 2014 – May 2016
  Researcher on contract at IRIANC - International Research Institute for Autonomic Network Computing - Boston, US / Munich, Germany.

- August 2013 – February 2015
  Researcher on contract at CINFAI - Consorzio Nazionale Interuniversitario Per la Fisica delle Atmosfere e delle Idrosfere

- May 2013 – June 2013
  Visiting researcher at INESC-ID (Instituto de Engenharia de Sistemas e Computadores Investigação e Desenvolvimento), Lisboa, Portugal

- January 2011 – April 2013
  Researcher on contract at CINI - Consorzio Interuniversitario Nazionale per l'Informatica, Rome, Italy.

- March 2009 – February 2011
  Research Assistant at Department of Computer, Control, and Management Engineering, Faculty of Engineering, Sapienza University of Rome, Italy.

- June 2008 – April 2009
  Research on contract at CINI - Consorzio Interuniversitario Nazionale per l'Informatica, Rome, Italy.

Academic Teaching

Professor on contract:

- *Database Systems*, B.S. Degree in Computer Engineering, Sapienza University of Rome, Rieti. (2009-2011).

Lecturer:

- *Concurrent and Parallel Programming. Module: Transactional Memories*. MS Degree in Computer Engineering, Sapienza University of Rome (since 2013).

Teaching Assistant:

- *Capacity Planning*. MS Degree in Computer Engineering, Sapienza University of Rome (Since 2012)

- *Foundations of Computer Science*. BS Degree in Computer Engineering, Sapienza University of Rome, Rieti (2008-2010).

- *Operating Systems*. BS Degree in Computer Engineering, Sapienza University of Rome, Rieti (2008-2009).