



Personal information

Surname / First name

Quer, Giorgio

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Nationality

Italian

Date of birth

July 27th, 1983

Current Employment

PhD Student in Information Engineering at University of Padova, Italy

Short Biography

Giorgio Quer received the Bachelor in Information Engineering and the Master degree in Telecommunications Engineering (summa cum laude) from the University of Padova (Italy) in 2005 and 2007, respectively. During 2007 he worked as a Visitor Research at Centre for Wireless Communication (CWC), University of Oulu, Finland, under the supervision of Prof. Carlos P. R  ez and Zach Shelby. During this period he performed research on Delay Tolerant Wireless Sensor Networks (WSNs). Since January 2008 he has been with the Department of Information Engineering at the University of Padova, where he is a PhD student supervised by Prof. Michele Zorzi.

Research

His research interests include:

- cross-layer techniques for Wireless Sensor Networks (WSNs);
- data gathering in WSNs;
- in-network processing exploiting Compressive Sensing;
- iterative analysis of sparse basis for online data;
- data structure and machine learning.

Projects

- *SENSEI project*: in 2008, Giorgio Quer was involved with 'Centro Ferrara Ricerche' within the EU funded SENSEI project (*Wireless Sensor and Actuator Networks (WS&ANs) as enablers of the Future Internet*);
- *DoCoMo EuroLabs*: since 2008, he has been collaborating with the Ubiquitous Networking Research group at DoCoMo Euro-Labs (in Munich, Germany) in the design of distributed storage and data dissemination schemes for future wireless systems (current topics under study are *Network Coding* and *Compressive Sensing* for distributed wireless networks).

Service

Reviewer at major IEEE conferences

Academic Experience

Teaching Assistantships

- "*Laboratorio di reti e protocolli*" (Networks and Protocols laboratory), held by Prof. Michele Zorzi, University of Padova, academic year 2008/2009.

- "*Sistemi e Reti Wireless*" (Wireless Systems and Networks), held by Michele Rossi, University of Padova, academic year 2008/2009.

Supervised Thesis Works

Master's Thesis Student: Alberto Menini (2009), *Compressive Sensing*

Publications

- R. Masiero, G. Quer, M. Rossi, and M. Zorzi, "A Bayesian Analysis of Compressive Sensing Data Recovery in Wireless Sensor Networks", IEEE SANS 2009, Saint Petersburg, Russia, Oct. 12-14, 2009.
- R. Masiero, G. Quer, D. Munaretto, M. Rossi, J. Widmer and M. Zorzi, "Data Acquisition through joint Compressive Sensing and Principal Component Analysis", in *IEEE Global Communication Conference (IEEE GLOBE-COM 2009)*, Honolulu, HI, US, Nov. 30, Dec. 4, 2009.
- G. Quer, R. Masiero, D. Munaretto, M. Rossi, J. Widmer and M. Zorzi, "On the Interplay Between Routing and Signal Representation for Compressive Sensing in Wireless Sensor Networks", in *Information Theory and Applications Workshop (ITA 2009)*, San Diego, CA, US, Feb. 8-13, 2009.
- G. Quer, M. Stramazzotti, C. P. R  ez and Z. Shelby, "Sparse forwarding for WSN Publish-Subscribe", in *5th European Conference on Wireless Sensor Networks (EWSN'08)*, Bologna, Italy, Jan. 30-31, Feb. 1, 2008.
- G. Quer, *Cross-Layer Publish/Subscribe Forwarding for Low Power and Delay Tolerant Wireless Sensor Networks*, Master Thesis, University of Padova, Italy, 2007.
- G. Quer, *Dispersion effects of signal propagation in optical fiber*, Bachelor Thesis (in Italian), University of Padova, Italy, 2005.

Languages

Italian	Mother tongue
English	Proficient User
German	Basic User