Giorgia V. Rossi

Personal Details

EMAIL: giorgia.vv.rossi@gmail.com
LANGUAGES: Italian (native language), English (fluent), Spanish (intermediate).

Education

2012-17 **PhD, Communications and Signal Processing Group, Imperial College London**
'Optimised Protocols for Time-Critical Applications and Internetworking in Vehicular Ad-Hoc Networks'
- Improving the performance of the current vehicle-to-vehicle (V2V) communication standard, to enable applications in road safety and hybrid networking.
- Research focused on stochastic modelling, MAC protocol optimisation and algorithm design.

2009-11 **MSc, Universitá degli Studi di Roma Tre, Rome, Italy**
Electronic Engineering for Telecommunication. Final mark: 110/110 awarded with maximum distinction

2006-09 **BSc, Universitá degli Studi di Roma Tre, Rome, Italy**
Electronic Engineering. Final mark: 110/110

2001-06 **Scientific High School J.F. Kennedy, Rome, Italy**
Diploma. Final mark: 100/100

Experience

2016 **Research Engineer (intern), Toshiba Research Europe Limited (TREL) Bristol, UK**
Development of algorithm for integration of V2V into current cellular networks (hybrid networks, IoT). Results published.

2012 **Visiting Researcher, Imperial College of London**
Research on mobile ad-hoc networks (part of MSc project), results published.

2011 **Exchange Student, Tampere University of Technology, Finland**
A six-month study abroad within the EC Erasmus programme. Courses attended: 3D media technology, Antennas and Transmission Lines and Waveguides.

2009 **Visiting Researcher, Universitá Sapienza, Rome, Italy**
Research on electromagnetic metamaterials (part of BSc thesis), results published.

Professional duties

2015 **Co-supervision of MSc and BSc theses**
Tailored design of theses to fully exploit the students skills and frequent meetings to discuss work progress.

2014 **Reviewer, International Journal of Distributed Sensor Networks**
Evaluation of article submission with consequent feedback provided to improve the quality of the research work evaluated.

2013-14 **Elected PhD departmental representative (80+ postgraduate researchers)**
Duties involved strategic planning of space and facilities, as well as organising fortnightly social gatherings and other larger department events.

2013 **Session Chair, IWCMC 2013 Conference (200+ attendees)**
Manage the conference session and lead Q&A sessions.

Research Projects

2011 **Archeological mapping project**
- Data collection in the field with Ground Penetrating Radar (georadar) and data processing. Ancient Roman ruins trapped underground were mapped and the results were later published.

2011 **Biometric human identification system**
- Implementation of algorithm for feature extraction from palm vein images and feature matching for secure identification.

2010 **Objective estimation of aesthetic quality system**
- Implementation of linear regression based algorithm for aesthetic feature extraction. Design of human perception test and real data collection for comparison.

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Technical Skills

Software	Linux, OS X, Windows, MS Office Package, KaleidaGraph.
Programming	MATLAB, HTML/CSS, LaTeX.

Scholarships & Awards

2017	**IEEE WCNC Student Travel Grant**
	Awarded to deserving students to present their accepted papers.
2015	**The Students' Choice Award, Research Symposium, Imperial College London**
	Poster Competition across the college for the most accessible presentation to a diverse audience.
2015	**Third Prize, Research Symposium, Imperial College London**
	Poster Competition across the college for the most accessible presentation to a diverse audience.
2012	**PhD Scholarship, Imperial College London**
	U.K. Defence Science and Technology Laboratory (DSTL).
2011	**Erasmus Programme Scholarship, Universitá degli Studi di Roma Tre**
	Selection based on academic merit and level of English knowledge.
2010	**Merit Scholarship, Universitá degli Studi di Roma Tre**
	Awarded for outstanding achievements in BSc.
2006-11	**Merit Scholarship, Arca-Enel**
	Awarded for academic merit.

Interests

Sports Gymnastics (8 years-regional amateur champion), bridge (2 years-regional champion), swimming (3 years), kickboxing (3 years), squash (2 years).

Others
- Member of Imperial College Finance Society (IMFS) and completed a financial trading course
- Singing classes (1 year), several demos released on SoundCloud
- Acting studies (1 year) including minor acting roles in Italian film and media
- Recreational activity manager at Hotel Resort Torre Normanna

Publications

[1] **G.V. Rossi**, and K.K. Leung, "Optimised CSMA/CA protocol for safety messages in Vehicular Ad-Hoc Networks", IEEE ISCC 2017, 3-6 July, Crete, Grece.

[2] **G.V. Rossi**, Zhong Fan, Woon Hau Chin and K.K. Leung, "Stable clustering for ad-hoc vehicle networking", IEEE WCNC 2017, 19-22 March, San Francisco, US.

[3] **G.V. Rossi**, and K.K. Leung, "Optimised CSMA protocol to support efficient clustering for vehicular internetworking", IEEE WCNC 2017, 19-22 March, San Francisco, US.

[4] **G.V. Rossi**, K.K. Leung and A. Gkelias, "Density-based optimal transmission for throughput enhancement in Vehicular Ad-Hoc Networks", IEEE ICC 2015, 8-12 June, London, UK.

[5] **G.V. Rossi** and K.K. Leung, "Performance tradeoffs by power control in wireless ad-hoc networks", IWCMC 2013, 1-5 July, Cagliari, Italy.

[6] C. Ferrara, **G. Rossi** et al., "The detectability of archaeological structures beneath the soil using the ground penetrating radar technique", EGU General Assembly 2012, 22-27 April, Vienna, Austria.

[7] L. Di Palma, **G. Rossi** et al., "Experimental investigations on woodpile EBG metamaterials", META2010, 13-15 December, Rome, Italy.