

First International Summer School on Cognitive Wireless Communications

July 12–15, 2011 – Villa Finaly, Florence, Italy

<http://newyork.ing.uniroma1.it/IC0902/SummerSchool2011>

Following is the final list of lectures and lecturers. Each lecture will be 1 hour to 1 hour and 30 minutes. Please check the website for details about the precise schedule.

The keynote speech by Prof. Mérouane Debbah, from Supélec, France will open the school.

Lecture title	Lecturer	Affiliation
Keynote speech		
Fundamentals of Cognitive Green Small Cell Networks	Prof. Mérouane Debbah	Supélec, France
Cognitive Radio review	Prof. Marco Chiani	University of Bologna, Italy
Cognitive Radio for Efficient Spectrum Use	Dr. Jad Nasreddine	RWTH, Aachen University, Germany
Flexible Radio Review	Dr. Natalia Miliou	University of Athens, Greece
Application Specific Instruction Processors (ASIP)	Prof. Gerd Ascheid	RWTH, Aachen University, Germany
Underlay Systems	Prof. Jocelyn Fiorina	Supélec, France
Time–Frequency signal analysis and its application in Flexible Radio	Dr. Thomas Hunziker	University of Kassel, Germany
Spectrum awareness	Dr. Maziar Nekovee and Dr. Oliver Holland	BT Research and University College London, UK King’s College, London, UK
SDR platforms and general concepts	Prof. Raymond Knopp	Eurecom Sophia Antipolis, France
OpenAirInterface.org SDR HW/SW architectures (PHY) and case–study (LTE)	Prof. Raymond Knopp	Eurecom Sophia Antipolis, France
OpenAirInterface.org Network emulation methodology	Prof. Navid Nikaein	Eurecom Sophia Antipolis, France
Reasoning for decision making in cognitive radio	Prof. Liljana Gavrilovska	University Ss.Cyril & Methodius, Macedonia
Game theory for distributed decision making in cognitive radio	Prof. Luiz DaSilva	Trinity College Dublin, Ireland
Learning mechanisms for cognitive radio	Prof. Luiz DaSilva	Trinity College Dublin, Ireland
Variational Inequality Theory: a mathematical framework for distributed decision making	Prof. Gesualdo Scutari	SUNY at Buffalo, USA
Neighbour discovery	Dr. Luca De Nardis	Sapienza University of Rome, Italy

Network discovery and automatic network recognition	Prof. Maria-Gabriella Di Benedetto	Sapienza University of Rome, Italy
Opportunistic networks and Knowledge Management Systems	Dr. Vera Stavroulaki and Dr. Kostas Tsagkaris	University of Piraeus, Greece University of Piraeus, Greece
OpenAirInterface.org Radio Network Modeling	Dr. Florian Kaltenberger	Eurecom Sophia Antipolis, France
