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TIW16 Summer School on Beyond 5G Communications

September 12-14, 2016 | Livorno, Italy

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interuniversitario
per le telecomunicazioni



General information

Today, cellular networks stakeholders are ramping up their activities on “5G”; and, as for previous generations of cellular systems, we witness an ongoing vibrant discussion to examine new ways to plan, deploy, and manage cellular and wireless networks for improving coverage, boosting the network’s capacity, and reducing the deployment and maintenance costs. 5G promises radically higher capacity and lower latency, which will enable virtual-reality, tactile internet, and control of vehicles in real time. Whilst the actual architecture and technologies that will make 5G are still unspecified to a large extent, researchers are already investigating a number of topics that qualify as “Beyond 5G” or B5G like massive cooperation, infrastructureless device-to-device networking, physical security, and so on.

The School will be held on September 12-14, 2016 at the premises of the NH Grand Hotel Palazzo, located at the beachfront of Livorno, Tuscany, Italy and will be characterized by an informal and highly interactive atmosphere and will feature world-class speakers, tutorials, exhibits, and technical sessions consisting of oral presentations. Invited lectures will be given by leaders in both academia and industry to describe recent research results and controversial but substantiated opinions that may influence the direction of future R&D.

During this four-day program, eight half-day high-qualified lectures will provide the main theoretical tools, describing the relevant solutions and methods, and addressing the problems still open in these areas. Specific topics of the course will include: stochastic geometry, massive MIMO, energy efficiency and full-duplex.



Organizing Committee

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Target audience and prerequisite for admission

PhD students and young researchers working in the field of ICT are warmly invited to attend the Summer School incorporated into the TIW16.

Program in a nutshell

The four-day program consists of nine high-qualified lectures given by prominent experts in the field and four dedicated tutorials. The keynote speakers are:

- Björn Ottersten (University of Luxembourg, Luxembourg)
- Gerhard Fettweis (TU Dresden, Germany)
- Giuseppe Caire (TU Berlin, Germany)
- Mischa Dohler (King’s College London, UK)
- Petar Popovski (Aalborg University, Denmark)
- Vincent Lau (Hong Kong University of Science and Technology, Hong Kong)
- Robert Heath (The University of Texas at Austin, US)
- David Gesbert (EURECOM, France)
- Merouane Debbah (Huawei Technologies, France)

while the tutorials will be given by:

- Alessio Zappone and Eduard A. Jorswieck (TU Dresden, Germany)
- Emil Björnson (Linköping University, Sweden)
- Melissa Duarte and Maxime Guillaud (Huawei Technologies, France)
- Marco Di Renzo (CentraleSupélec, France)

Registration

Registration is now open. The registration fee is EUR 450 (VAT incl.) and includes the school material, the boat tour, the social event, all coffee breaks and lunches. Detailed information concerning the program and the registration process are available on <http://tyrr2016.cnit.it/>.

Publicity chair

Filippo Giannetti

Local Arrangements

Andrea Pizzo

Supporting institutions

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