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N# Spring School on Advanced Signal Processing Techniques for Heterogeneous Networks March 18-20, 2014 | Pisa, Italy





General information

The design of cellular systems has reached practical limits in many dense urban areas while the demand for data traffic is steadily increasing. Unfortunately, radio link improvements, including coding and cognitive transmission, are reaching their theoretical limits. To enhance the area spectral efficiency, network operators are considering heterogeneous networks, consisting of an irregular deployment of self-learning and intelligent base stations. This major transition makes the cellular architecture increasingly complex, and rises many issues.

To this respect, the Newcom# Spring School on Advanced Signal Processing Techniques for Heterogeneous Networks aims at providing PhD students, postdoctoral researchers, and young scientists with the unique opportunity to meet and learn from leading experts the most advanced signal processing techniques and mathematical tools for understanding dense heterogeneous networks and finding the algorithmic solutions to approach their limits.

The School will be held on March 18-20, 2014 at the premises of the Scuola Normale Superiore, Centro E. De Giorgi, located at the very heart of Pisa, Tuscany, Italy. During this three-day program, six 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: communications with delayed and limited feedback, optimization techniques for resource allocation, random matrix, stochastic geometry, game theory, and massive MIMO.

Target audience and prerequisite for admission

PhD students and young researchers participating in the N# consortium are warmly invited to attend the School. The School also welcomes PhD students and researchers from other institutions.

Program in a nutshell

The three-day program consists of six half-day high-qualified lectures given by prominent experts in the field. The lectures will be given by:

- Emil Björnson (Royal Institute of Technology, Sweden)
- Romain Couillet (Supélec, France)
- Petros Elia (Eurecom, France)
- Marios Kountouris (Supélec, France)
- Erik G. Larsson (Linköping University, Sweden)
- Marco Luise (University of Pisa, Italy)

Registration

Registration is now open, and will close on **March 10th**, **2014**. The registration fee is EUR 140 (VAT incl.) and includes the school material, one social event, and all coffee breaks. Detailed information concerning the program and the registration process are available on www.euracon.org/ASPHeN2014

Organizing Committee

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