Graphical models for the characterisation of information flow in complex networks: Application in neuroimaging

8-12 July 2013
GRENOBLE Campus

The challenge of this summer school is to group efforts from the theoretical perspective of statistical signal processing on complex networks, and pratical considerations for analysing brain activity and connectivity. The research developments on these topics are necessarily multi-disciplinary, with expertise from neuroscience, signal processing, statistics. This school will be an unique opportunity to get together scientific experts from graphical models, information theory and neuroimaging in order to propose new paradigms to extract brain functional connectivity using fMRI, EEG, MEG and DTI.

SPEAKERS
Prof Alberto ROVERATO, Dipartimento di Scienze Statistiche, Universita' di Bologna
Prof Milan PALUS, Institute of Computer Science, Academy of Sciences of the Czech Republic
Prof. Dimitri VAN DE VILLE, EPFL, Université de Genève
Prof. Vito LATORA, Queen Mary, University of London
Dr Petra VERTES, University of Cambridge-UK
Prof. Ed BULLMORE, University of Cambridge-UK
Dr Fabrizio DE VICO FALLANI, Institut du cerveau et de la Moelle Epinière, Paris
Dr Robert CASTELO, Pompeu Fabra University, Barcelona
Dr Jonas RICHIARDI, Neurology and Neurological Sciences, Stanford University School of Medicine

ELIGIBILITY
Dedicated to young researchers and PhD student
Researchers in physics, mathematics, signal processing and neuroscience working on the identification of complex systems

ORGANIZING COMMITTEE
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Programm and registration
http://www.gipsa-lab.fr/summerschool/GMIneuro/