



MAX-PLANCK-GESELLSCHAFT

Mathematics and Physics of Multilayer Complex Networks

Focus Workshop 06 - 08 July 2015

A key to addressing the problem of complexity in systems is by studying their structure and function, and network representations have been extremely useful for these efforts. The study of "multilayer networks" builds on these successes but also allows one to incorporate important features of real networks (such as time-dependence, multiple types of interactions, etc.).

This workshop will confront challenging issues in the study of multilayer systems via a variety of state-of-the-art approaches. It will bring together leading experts from physics, mathematics, and other fields.

Topics include

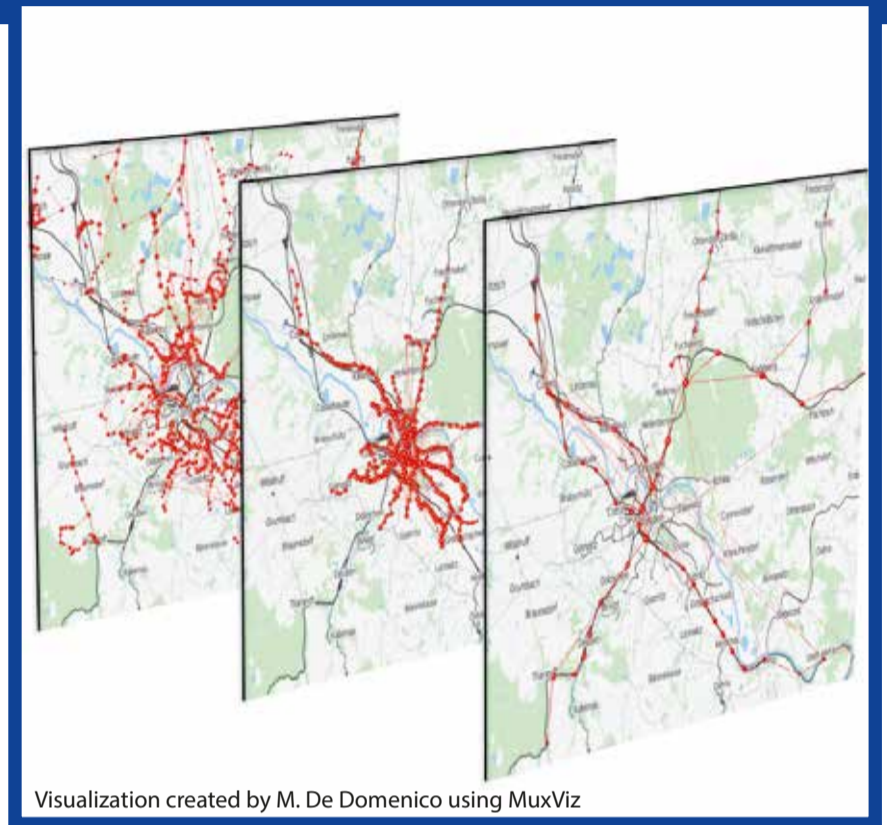
- multilayer networks
- multiplex networks
- networks of networks
- interconnected networks
- temporal networks
- dynamical processes on networks
- diffusion on networks
- visualization of networks
- random graphs
- network data analysis
- social networks
- biological networks

Applications received before 31 March 2015 will be considered preferentially.

Applications are welcome and should be made by using the application form on the conference web page (please see URL below). The number of attendees is limited. The registration fee for the international workshop is 120 Euro and should be paid by all participants. Costs for accommodation and meals will be covered by the Max Planck Institute. Limited funding is available to partially cover travel expenses. Please note that childcare is available upon request.

For further information please contact:

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Visualization created by M. De Domenico using MuxViz

Invited speakers

M. Barthelemy (France)
D. S. Bassett (USA)
V. Colizza (France)
A. Díaz-Guilera (Spain)
J. P. Gleeson (Ireland)
T. Gross (UK)
S. Havlin (Israel)
V. Latora (UK)
Y. Moreno (Spain)
P. J. Mucha (USA)
A. Pinar (USA)
G. Robins (Australia)
S. Thurner (Austria)

Scientific coordinators

A. Arenas,
Tarragona, Spain
M. A. Porter,
Oxford, UK

Organisation

C. Pönisch, MPIPKS