Topology and dynamics of real-world networks

Doctoral School: Doctoral School of Computer Science
Institute: University of Szeged
Supervisor: Péter Csermely

Topic Description:
In the research work the PhD student will apply and develop further the network analysis methods developed by the LINK-Group (http://www.modules.linkgroup.hu [1], http://www.networgame.linkgroup.hu [2] és http://turbine.hu [3], http://linkgroup.hu/networkrepresentation.php [4]) assessing real-world networks. The research topic includes the network analysis of network modules, bridging nodes, cores, as well as the assessment of the attractor structure of the state space of real-world complex systems and the intervention points, which are needed to be excited or inhibited to shift the complex system from one given state to another.

Admissible number of students: 1
Deadline for applications: 2016-09-30

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