PhD research topic proposal

BME, Doctoral School of Mathematics and Computer Science

Name of supervisor :

László Négyessy

Degree:

PhD

Title of the topic:

Modelling the mesoscale organization of the network of the cerebral cortex

Short description:

Goal: to derive a topologically faithful mesoscale representation of the large-scale (area level) cortical network and explore the characteristics of the mesoscale network to gain a deeper understanding of cortical functioning at the level of neuronal populations.

Requirements:

Background in graph theory, statistics,
Strong command of programming in Python or R,
Knowledge, experience in C, C++, C# or Java is advantage
Comfortable and quick in reading scientific publications

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Place of work:

Wigner Research Centre for Physics, Hungarian Academy of Sciences,
Department of Computational Sciences,
Theoretical Neuroscience and Complex Systems Research Group

Statement: *The conditions of the research above are satisfied, the theme is confirmed by the Head of the Department/Institute*