

Graph Embeddings

Various networks, be it the Internet or proposed ad hoc and sensor networks, can be modelled as graphs with certain properties. Numerous applications have arisen where assigning coordinates to the nodes in the network plays a crucial role. This research direction can be considered as trying to embed graphs in two (or higher) dimensional space. There are numerous open questions which the candidate of this internship will pursue theoretically and/or practically by simulation.

Required skills:

Theoretical skills and interest (geometry, algorithms) or strong programming skills (preferably in Java).

Coordinator: Regina O'Dell (odell@tik.ee.ethz.ch)

Professor: Prof. Roger Wattenhofer

Laboratory: ETHZ, [Distributed Computing Group](#)