



Semester- / Bachelor- / Master Thesis

Sorting in Wireless Networks

One of the most basic tasks in computer science is sorting. Due to its importance this problem is well understood in most models of computation but surprisingly little is known in the setting of wireless networks. Here each node in the network has an item and in the end it wants to know the index of this element in the sorted list of all elements. However we do not want to collect all information in one node but sort in a distributed way. In this thesis one will consider sorting and related problems in different models of wireless computing and will try to come up with efficient algorithms. Here we will focus more on the theory than on implementing the algorithms.



Figure 1: How to sort in wireless networks?

Interested? Come to our office for coffee and a small chat or contact us by email / phone.

Contact

Stephan Holzer, ETZ G64.1, stholzer@tik.ee.ethz.ch, 044 632 7065

Prof. Dr. Roger Wattenhofer, ETZ G63, wattenhofer@tik.ee.ethz.ch, 044 632 6312