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## Minisymposium 19 - Random Discrete Structures and Algorithms

### Euclidian Nearest Neighbor Problems for Random Points

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In this talk we give a probabilistic analysis for the all nearest neighbor problem for two point sets uniformly distributed in the  $d$ -dimensional unit cube. While the computation of the total nearest neighbor graph can be done with basic combinatorial arguments, the proof of concentration results seems to depend on the dimension.

The paper is joint work with Andreas Baltz and Soeren Werth, Institut für Informatik, Universität zu Kiel.