1. The Subject and Aims of Research

My research interests are primarily in the area of algorithm design and analysis, in particular for problems in wireless computing and dynamic memory management. These works aim at a systematic probabilistic study of a class of related algorithms and structures respectively. The main purpose is to give a more precise analysis of the stochastic behaviors of related algorithms for reduction of the required costs, time and resource.

2. Related Recent Research Topics

- Performance of garbage collection in Java
- Dynamic memory management
- Analysis of scheduling in wireless networks

3. Selected Publications and Projects

Publications:

Projects:
- Probabilistic analysis of mobility models for ad hoc networks (NSC)
- Analysis and applications of multiobjective evolutionary algorithms (NSC)
- Probabilistic analysis of leader election algorithms (NSC)