• **Resource Management in Edge Computing**
  – Algorithms for application placement and offloading
  – Algorithms for capacity planning
  – Pricing of edge resources
  – Game-theoretic modeling

• **Resource Management in Cloud Computing**
  – Online sharing-aware algorithms for VM packing
  – Approximation algorithms for VM allocation
  – Incentive-compatible mechanisms for resource provisioning and allocation
  – Allocation and pricing mechanisms
  – Cloud federation formation mechanisms

• **Parallel Approximation Algorithms**
  – Parallel approximation algorithms for scheduling
  – Parallel approximation algorithms for combinatorial optimization problems in graphs
  – Parallel approximation algorithms on multi-core and many-core systems

• **Electric Vehicle Routing and Charging**
  – EV Integrated routing and charging algorithms
  – EV Incentive-compatible charging and pricing mechanisms

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**Sharing-Aware VM Allocation in clouds**

Parallel approximation algorithm for scheduling parallel machines: Speedup

Application placement on edge nodes