



Parallel & Distributed Computing

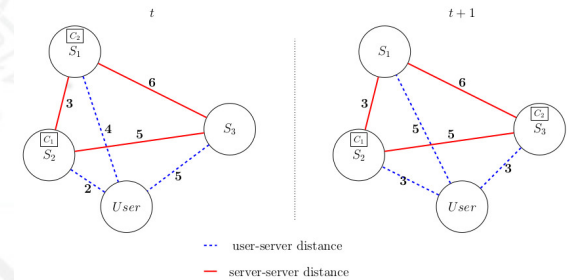
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- **Resource Management in Edge Computing**
 - Algorithms for application placement and offloading
 - Algorithms for capacity planning
 - Pricing of edge resources
 - Game-theoretic modeling
- **Resource Management in Cloud Computing**
 - Online sharing-aware 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

Sharing-Aware VM Allocation in clouds



Parallel approximation algorithm for scheduling parallel machines:
Speedup

Application placement on edge nodes