

Special Issue on
Engineering Networked Systems Optimization

CALL FOR PAPERS

Networked systems are composed of several interconnected subsystems which interact over a network. Examples of networked systems include smart grid, wireless sensor network, Internet, and traffic network. All of these examples are our civil infrastructure of great importance, so that optimally managing such networks is in the national interest. Optimizing the performance of the networked system is a challenging and important task to not only deliver high-quality services but also significantly improve system efficiency, reliability, availability, utilization, stability, and so on. Therefore, novel and innovative optimization techniques and methods are paramount in improving the system performance.

This special issue welcomes high-quality research papers as well as review articles addressing recent advances on optimization of networked system. Original, high-quality contributions that are not yet published or that are not currently under review by other journals or peer-reviewed conferences are sought.

Potential topics include but are not limited to the following:

- ▶ Distributed optimization in networked systems
- ▶ Stochastic optimization in networked systems
- ▶ State estimation in networked systems
- ▶ Incentives mechanism to encourage participants for optimization
- ▶ Optimization technique in very large-scale networks
- ▶ Decomposition method for large-scale network optimization
- ▶ Privacy and security preserving protocol for networked system optimization
- ▶ Optimization and control of networked system with package drop out and random time delay
- ▶ Multiobjective optimization in networked systems
- ▶ Parallel optimization technique and its application in networked systems

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