Workshop

Title:

Machine Learning in Networks, Communications and Applications

Abstract:

Machine learning and data driven approaches have recently received much attention as a key enabler for future networks, communications and their applications. Machine learning methodologies can be utilized to improve the performance of networks, communications and applications through exploiting some inherent regularities, such as the network traffics, mobility patterns in mobile networks, node activities in applications. However, there are still many research challenges, and this is due to the fact that the objectives, constraints, and problem formulations solved by machine learning fundamentally differ from those existing approaches. All such research challenges lie at the core of this workshop.

Scope and Topics:

The proposed special session on Machine Learning in Networks, Communications and Applications aims to bring academia researchers as well as industry partners to meet together and exchange ideas on recent research and future directions for the applications of machine learning methods in the fields of networks and communications. This workshop solicits original research papers that address the following non-exhaustive list of topics:

- Machine learning for mobile networks
- Machine learning for social networks
- Data-driven optimization of wireless networks

- Machine learning for routing or data dissemination in opportunistic networks
- Distributed machine learning for wireless communications
- Deep learning for wireless communications
- Machine learning for network security
- Machine learning for resource allocation in wireless networks

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