Anomaly Detection in Modern Networks

Guest Editor:

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Message from the Guest Editor

Anomaly detection is concerned with pinpointing data patterns that deviate from their expected behavior. This is a crucial research problem, due to its broad set of application domains, such as anomaly detection problems are posing new challenges in the context of modern network architectures including: Cloud/Fog/Edge computing, Internet of Things (IoT), Network Function Virtualization (NFV), Software Defined Networking (SDN), Multi-access Edge Computing (MEC), and 5G/6G networks. Topics of interest include, but are not limited to, the following:

- Statistical approaches (e.g., time series analysis, signal processing techniques) for anomaly detection in modern networks;
- Machine Learning approaches for anomaly detection in modern networks;
- Novel algorithms for anomaly detection in modern networks;
- Privacy concerns related to the anomaly detection in modern networks;
- Applications of anomaly detection in modern networks;
- Industrial/Realistic case studies of anomaly detection in modern networks.

Special Issue

Editor-in-Chief

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Message from the Editor-in-Chief

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