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Anomaly Detection and Monitoring for Networks and IoT Systems

Guest Editors:

Dr. Jinoh Kim
Department of Computer Science and Information Systems, Texas A&M University-Commerce, Commerce, TX 75428, USA

Dr. Alexander Sim
Lawrence Berkeley National Laboratory, 1 Cyclotron Road, MS 50B-3238, Berkeley, CA 94720, USA

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Message from the Guest Editors

It is essential to detect anomalous activities to securing networks and Internet of Things (IoT) systems due to ever-increasing connectivity and malicious groups exploiting various vulnerabilities. There are many critical challenges when it comes to realizing effective monitoring and detection in networks and IoT systems, including detection performance, scalability, quantitative modeling, streaming data support, energy efficiency, communication capabilities, etc. It is also necessary to provide a rich set of functions to support the monitoring process; for example, new logging and measurement techniques may need to be defined in the future with the latest development in communications and storage/archival technologies.

The purpose of this Special Issue is to highlight the variety of impactful methods and tools designed for fulfilling monitoring and detection functions, as well as to encourage the research community to advance the relevant technologies. We seek contributions with statistical, machine/deep learning, and other data-driven approaches, especially those that demonstrate the significant impact of state-of-the-art algorithms and methodologies.

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Editor-in-Chief

Prof. Dr. Vittorio M. N. Passaro
Dipartimento di Ingegneria Elettrica e dell'Informazione (Department of Electrical and Information Engineering), Politecnico di Bari, Via Edoardo Orabona n. 4, 70125 Bari, Italy

Message from the Editor-in-Chief

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Contact Us

Sensors Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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