Special Issue

Unusual Behavior Detection Based on Machine Learning

Message from the Guest Editors

Recent advances in pattern recognition and machine learning are leading many fields of Artificial Intelligence. Anomaly detection techniques are used to identify unusual events or abnormal patterns which are often referred to as anomalies or outliers. Detecting unusual behavior using machine learning is also of great use in security, where these abnormal behaviors represent a potential attack. In addition, the vast amount of information that exists today requires an automatic analysis that allows us to discern whether these data follow normal behavior or are altered for some reason. This Special Issue addresses all types of sensor-based techniques designed for detecting unusual behavior using machine learning. Topics include, but are not limited to:

- Pattern recognition
- Unusual behavior
- Machine learning
- Supervised learning
- Unsupervised learning
- Anomaly detection
- Abnormal behavior detection

Guest Editors

Prof. Dr. Enrique Domínguez

1. Department of Computer Science, University of Málaga, 29016 Málaga, Spain
2. Biomedic Research Institute of Málaga (IBIMA), 29016 Málaga, Spain

Prof. Dr. Rafael M. Luque-Baena

1. Department of Computer Science, University of Málaga, 29016 Málaga, Spain
2. Biomedic Research Institute of Málaga (IBIMA), 29016 Málaga, Spain

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Sensors
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
sensors@mdpi.com

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Sensors is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. Sensors organizes Special Issues devoted to specific sensing areas and applications each year.

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

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