



Machine Learning and Deep Learning Based Pattern Recognition

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Message from the Guest Editors

In the modern digital world, patterns can be found in many facets of daily life. They can be physically observed or computationally detected using algorithms. In the digital environment, a pattern is represented by a vector or matrix feature value. Recently, numerous machine learning (ML)- and deep learning (DL)-based techniques have been widely used in order to handle or analyze these feature values in the artificial intelligence (AI) domain. ML is a branch of AI and its goal is to let the computer make its own decisions with minimal human involvement using pattern data. On the other hand, DL is a branch of ML and a popular topic in the field of AI. Using DL and ML models to extract meaningful features from the given text, image, video, or sensor data and analyze those features is known as pattern recognition (PR). PR has been used in various applications in the fields of engineering such as computer vision, sensor data analysis, natural language processing, speech recognition, robotics, bioinformatics, and so on.

Deadline for manuscript
submissions:

30 September 2024





an Open Access Journal by MDPI

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