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Artificial Intelligence for Trustworthy Industrial Internet of Things

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Message from the Guest Editors

Dear Colleagues,

Industrial IoT (IIoT) resolved various industrial platforms' concerns by promoting self-controlling systems and assuring real-time operations. However, the fast and security-inconsiderate adoption of the IIoT has revealed several security weaknesses to industrial applications. Additionally, IIoT networks produce a vast amount of critical information, and where the corresponding data are not carried and examined securely, a privacy breach can occur. Machine learning and deep learning (ML/DL) are considered one of the best computational models that can guarantee intelligent features for IIoT systems.

ML/DL can be extremely beneficial for data profiling, examination, and performance enhancement for the IIoT network components, where the produced information can be used to locate and identify the system weaknesses and potential attacks. Threats and vulnerabilities can be detected at initial phases as the ML/DL-associated solutions have the precedence to discover novel attacks. Subsequently, they can provide advanced security methods for the IIoT context to make it more trustworthy and reliable than before.