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Trustworthy AI for Cybersecurity and IoT Applications

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Deadline for manuscript
submissions:

closed (10 December 2023)

Message from the Guest Editors

The use of artificial intelligence (AI) has significantly accelerated in the last decade due to different concurrent technological advances. These include, but are not limited to, the development of increasingly powerful computational architectures and algorithms, the novel hardware architectures at the edge and the availability of large volumes of data. However, contemporary AI still faces fundamental challenges, and calls are being made to develop a dedicated science to study machine behavior. This call for papers focuses attention to the mentioned topics, with specific focus on IoT and cybersecurity. Since the forthcoming management and control of IoT and cybersecurity applications need increasing levels of autonomy, trustworthy AI constitutes the right answer to the involved requirements in terms of reliability, explicability, efficiency, and robustness.

- explicability of AI in IoT or cybersecurity scenarios
- bias; out-of-distribution detection and data augmentation of IoT and cybersecurity datasets
- redundancy schemes for safety analysis and AI reliability of IoT and cybersecurity with AI in the loop



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Special Issue



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Message from the Editor-in-Chief

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