Special Issue

Artificial Intelligence Safety and Security

Message from the Guest Editors

Artificial Intelligence (AI) is increasingly embedded in engineering applications across diverse fields, including healthcare, manufacturing, energy, transportation, and information systems. While AI systems enable breakthroughs in automation, predictive analytics, and decision-making, they also raise concerns related to safety (system reliability, human–AI conflict, risk of unintended harm) and security (cyber threats, adversarial attacks, data integrity). This Special Issue seeks to showcase cutting-edge research addressing both challenges. We invite contributions that propose new theories, frameworks, and practical solutions to ensure that AI-enabled systems are robust, resilient, and trustworthy in engineering and applied domains. Potential topics of interest include, but are not limited to:

- AI safety frameworks and risk evaluation methods;
- Cybersecurity and resilience in AI-driven systems;
- Adversarial AI and defense strategies;
- Machine learning for safety-critical decision-making;
- Human–AI collaboration and conflict resolution;
- AI safety and security in healthcare, smart manufacturing, energy, and transportation;
- Industry 4.0/5.0 applications with secure and reliable AI integration.

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Message from the Editor-in-Chief

Electronics is a multidisciplinary journal designed to appeal to a diverse audience of research scientists, practitioners, and developers in academia and industry. The journal is devoted to fast publication of latest technological breakthroughs, cutting-edge developments, and timely reviews of current and emerging technologies related to the broad field of electronics. Experimental and theoretical results are published as regular peer-reviewed articles or as articles within Special Issues guestedited by leading experts in selected topics of interest.

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