

## Special Issue

# Advances in Secure AI: Technology and Applications

### Message from the Guest Editors

Artificial intelligence (AI) is a technology that enables us to identify solutions to complex problems using relatively simple learning mechanisms in a data-driven fashion. Due to the recent success and advances in AI techniques such as computer vision and natural language processing, many intelligent services integrate AI, especially in mission-critical applications dealing with complex systems such as autonomous vehicles, environmental monitoring, and cybersecurity. However, we still do not understand the complete characteristics of AI models and learning techniques; therefore, it has become an urgent call for both theoreticians and partitioners to investigate robust, timely, explainable, and trustworthy AI to avoid unforeseen malfunction of AI-based services. This Special Issue aims to address the latest advances in the techniques and applications of secure AI. Potential topics include but are not limited to the following:

- Adversarial attack and defense techniques;
- AI model stealing attack and defense techniques;
- Data poisoning (AI backdoor/trojan) attack, detection, and defense;
- Explainable AI (XAI) techniques and applications;

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### Deadline for manuscript submissions

closed (30 November 2022)



## Applied Sciences

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As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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### Editor-in-Chief

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