Special Issue

Digital and Optical Security Algorithms via Machine Learning

Message from the Guest Editors

Various encryption, watermarking and authentication techniques can prevent the illegal access of text, audio, image, video and other forms of information. In addition to digital security techniques, optical security systems provide an alternative solution with unique features. Machine learning algorithms including deep learning has received much attention among many fields in the past decade. Machine learning can be potentially applied in the design of intelligent digital or optical security systems. At the same time, the wide use of machine learning introduces new types of security issues such as adversarial attack. Interdisciplinary research works related to security are especially encouraged to be submitted to this issue. The scope of this special issue includes but not limited to

- Design of digital/optical encryption, watermarking and other security techniques via machine learning
- Cryptanalysis of digital/optical security systems via machine learning
- Forensics with deep learning
- Encryption and information hiding in deep learning model
- Privacy-preserved optical imaging
- Adversarial attacks and defenses in deep learning and other machine learning techniques

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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 guest-edited by leading experts in selected topics of interest.

Editor-in-Chief

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