

Special Issue

New Solutions for Multimedia and Artificial Intelligence Security

Message from the Guest Editor

In the recent decade, there has been an increase in the application of artificial intelligence technologies for solving the complex problems arising in multimedia security. For example, deep neural networks (DNNs) have been widely applied in steganography and digital watermarking to enhance the rate-distortion performance of multimedia communication systems. However, the fast development of AI is also accompanied by new challenges in the field of multimedia security. AI models can be applied to enhance the performance of conventional active and passive multimedia forensic systems to protect against common types of attacks. However, novel AI models may be developed by adversaries with malicious intent, such as AI models for generating multimedia forgeries and disinformation. Moreover, extensive research demonstrates that AI models are inherently vulnerable to malicious attacks, such as adversarial perturbations. In turn, this will cause AI models to easily make incorrect decisions, seriously threatening the security and reliability of multimedia and AI systems. Therefore, it is necessary to seek more reliable and robust defensive solutions for multimedia and AI security systems.

Guest Editor

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