Special Issue

Information Hiding and Secret Sharing for New Carriers and Their Security Evaluation Methods

Message from the Guest Editors

Information hiding and secret sharing are key techniques used to protect private information; they can be applied to copyright protection, access control, etc. Many new carriers have appeared in recent years, such as AI, encrypted multimedia, and barcodes, whose security is crucial. AI is widely developed and used nowadays, and its security has attracted the attention of researchers and engineers. Multimedia sources, such as an image, are encrypted first and then stored in the cloud, thus making encrypted multimedia a new carrier. Barcodes, like QR codes, are widely used, and their security is important for everyone. In addition, security evaluation methods of information protection techniques are important but difficult as well.
In this Special Issue, first we intend to consider information hiding and secret sharing for new carriers, such as deep learning models, encrypted multimedia, and barcodes, in order to protect their security. Second, we intend to consider the security evaluation methods of the above related protection techniques for new carriers, like using information theory or lossy entropy.

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The concept of entropy is traditionally a quantity in physics that has to do with temperature. However, it is now clear that entropy is deeply related to information theory and the process of inference. As such, entropic techniques have found broad application in the sciences.

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