Computational Imaging and Image Encryption with Entropy

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Deadline for manuscript
submissions:
closed (1 June 2022)

Message from the Guest Editors

Computational optical imaging is an emerging crossover technology integrating optics, signal processing, and mathematics. It systematically describes optical imaging from a global perspective. With direct imaging methods, digital holographic imaging, and laminated imaging will be inevitable for computational imaging technology. With computational imaging technology, image security after imaging also needs to be considered. The image encryption process in the transmission process needs to meet the security requirements of the transmission process. However, entropy has been used extensively to support image security, which is of great significance to the selection of the encryption algorithm and security measurement in image security.

This Special Issue calls for original research contributions in computational imaging and image security, including in the following representative topics but not limited to:

- Image encryption;
- Image watermarking;
- Integral imaging;
- Holography;
- 3D display;
- Image entropy;
- Shannon entropy;
- Entropy-based cryptographic techniques.

mdpi.com/si/111076

Special Issue

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Message from the Editor-in-Chief

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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