



Application of Information Theory to Computer Vision and Image Processing II

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submissions:

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Message from the Guest Editors

This Special Issue aims to publish information theory, measurement methods, data processing, tools, and techniques for the design and instrumentation used in machine vision systems by the application of computer vision and image processing, for analyzing, processing, and understanding visual data based on principles of information content, redundancy, and statistical properties.

The topics of this Special Issue include but are not limited to:

- information theory
- entropy and coding theory (data compression, watermark, minimizing data loss, visual information in a more compact form, transmission, storage)
- computer vision (identify relevant features and patterns)
- machine vision (data analysis and understanding, segmentation, registration, denoising and restoration, object recognition, classification and tracking)
- cyber-physical systems
- instrumentation
- signal and image processing
- measurements (3D spatial coordinates, redundancy, statistical properties)
- applications (navigation, surveillance, facial recognition, medicine, robotics, entertainment, and more)





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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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