Brain-Inspired Computer Vision

Guest Editors:

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Deadline for manuscript submissions:
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Message from the Guest Editors

Dear Colleagues,

Visual perception and analysis in mammal, and especially the primate visual system, is a complex process performed by the various elements of the brain. After the pioneering experiments of Hubel and Wiesel (1962), the visual cortex has been used as a source of inspiration for developing algorithms that can be applied in computer vision tasks, such as finding objects, analyzing motion, identifying or detecting instances, reconstructing scenes or restoring images. One of the most challenging goals in computer vision is, therefore, to design and develop algorithms that can process visual information as humans do.

The main aim of this Special Issue is to bring together researchers from the diverse fields of computer science (computer and robot vision, pattern recognition, machine learning, artificial intelligence, high performance computing and visualization) who aim to model different phenomena of the visual system of the brain.

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Special Issue

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Message from the Editor-in-Chief

The imaging term, specific with journal, is to be considered in its broadest sense. Image processing, image understanding and computer vision are all terms related to imaging acquisition, its processing and the extraction of relevant information from the scene to obtain the underlying knowledge. All tasks related to the above items are oriented toward specific applications in a broad range of areas and topics. The *Journal of Imaging* is conceived as an efficient vehicle in the scientific community for the communication and transmission of the progress and research results in the topics covered.

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