

Special Issue

Advanced Machine Learning Methods for Image Processing, Perception and Understanding

Message from the Guest Editors

Image processing, perception and understanding have underpinned much of recent progress in a wide range of computer vision applications, including space exploration, military surveillance, environmental protection, precise agriculture, intelligence manufacturing, intelligent transportation etc. However, due the complicated imaging environments as well as various application requirements in practice, image processing, perception and understanding are still confronted with many challenges. This Special Issue calls for innovative works that explore recent advances, prospects, and challenges in machine learning methods or applications to produce high-quality images; as well as accelerate the inference speed, especially on embedded devices with limited computational resources. It is noteworthy that in this Special Issue the keyword ‘image’ must be understood in a wide sense: optical imagery, infrared imagery, multispectral imagery, hyperspectral imagery, SAR imagery, medical imagery, and so on. The purpose is to provide a platform to enhance interdisciplinary research and collaborations, and to share the most innovative ideas in various related fields.

Guest Editors

Prof. Dr. Lei Zhang

School of Computer Science, Northwestern Polytechnical University,
Xi'an 710129, China

Prof. Dr. Wei Wei

School of Computer Science, Northwestern Polytechnical University,
Xi'an 710129, China

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Mathematics
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
mathematics@mdpi.com

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About the Journal

Message from the Editor-in-Chief

The journal *Mathematics* publishes high-quality, refereed papers that treat both pure and applied mathematics. The journal highlights articles devoted to the mathematical treatment of questions arising in physics, chemistry, biology, statistics, finance, computer science, engineering and sociology, particularly those that stress analytical/algebraic aspects and novel problems and their solutions. One of the missions of the journal is to serve mathematicians and scientists through the prompt publication of significant advances in any branch of science and technology, and to provide a forum for the discussion of new scientific developments.

Editor-in-Chief

Prof. Dr. Francisco Chiclana

School of Computer Science and Informatics, De Montfort University,
The Gateway, Leicester LE1 9BH, UK

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