



Advances of Intelligent Imaging Technology

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Message from the Guest Editors

Dear Colleagues,

AI has revolutionarily boosted the domain of intelligent imaging. Each day, the scientific milieu is facing new AI applications converting image to insight. Artificial neural networks are playing a key role in this new era where the power of AI has been unleashed along with drastic progress in image sensing and acquisition. All AI subdomains of deep learning, machine learning and reinforcement learning, along with traditional computer vision, provide unique architectures to build applications for intelligent imaging.

The main objective of this Special Issue is to highlight innovations in AI architectures and applications for the domains of image acquisition, enhancement, analytics and interpretation.

Topics include, but are not limited to:

- Image-based decision making in autonomous systems and self-driving cars;
- Obstacle-avoidance systems and robot vision;
- Image recognition;
- Image content labelling and meta-tags;
- Image content search;
- Remote sensing, satellite imaging, data fusion and hyper-spectral analysis;
- AI-assisted microscopy imaging and microscopy image analysis.





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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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