Special Issue

Single-Pixel Intelligent Imaging and Recognition

Message from the Guest Editor

This Special Issue focuses on the development and application of single-pixel imaging and ghost imaging technology. Single-pixel imaging, a type of computational imaging, originated from ghost imaging technology and achieves imaging through structured light illumination and the collection of light intensity information using a single-pixel detector. Ghost imaging underwent a development process from quantum ghost imaging to classical ghost imaging and then to computational ghost imaging. Combining deep learning algorithms for single-pixel imaging and moving object recognition has significant application advantages, especially in special bands such as infrared and terahertz bands. We welcome manuscripts involving theoretical and experimental research in related fields.

Guest Editor

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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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