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Structured Sparse Signal Processing for Infrared and Terahertz Systems

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Deadline for manuscript submissions:
closed (31 August 2022)

Message from the Guest Editors

Infrared and terahertz (THz) systems hold tremendous potential for applications in robotics, medicine, non-destructive inspection, quality control, and homeland security, etc. These sensing systems often generate high-dimensional signals with large volume. The recent explosive growth of sparse signal processing and machine learning offer new opportunities and tools to design high performance sensing systems.

The goal of the Special Issue is to collect original and high-quality research articles as well as review papers focused on recent advances of structured sparse signal processing and deep learning for the infrared and terahertz system. It aims to highlight new research accomplishments and developments in system design, theory, algorithms, and applications. This Special Issue will include high-quality novel contributions in this emerging field, including, but not limited to:

- Infrared spectroscopy and imaging systems;
- Terahertz spectroscopy and imaging systems;
- Non-destructive testing;
- Sparse signal processing;
- Structured sparsity learning;
- Compressive sensing;
- Computational imaging;
- Terahertz and infrared spectroscopic imaging.

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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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