Special Issue

Application of Hyperspectral Imaging for Nondestructive Measurement

Message from the Guest Editor

Hyperspectral imaging technology has recently emerged as a powerful analytical technique that uses vibrational spectroscopy for nondestructive quality measurement of various materials. The previously described spectroscopic analytical methods (Vis/NIR, MIR, Fluorescence, Raman spectroscopies, etc.) are well-established, non-invasive analytical techniques for the analysis of materials. However, these techniques are point-based scanning techniques and only examine a relatively small area of a specimen. Sample analysis is also more convenient and fast compared with the hyperspectral imaging technique, instead of the single sampling technique used by the other spectroscopic methods. Furthermore, HSI has instrumental flexibility and can be used to collect hyperspectral data for specimens with different sizes and shapes. With these advantages and flexibility, hyperspectral imaging has been successfully adopted in a variety of research and industry environments. This Special Issue focuses on the latest research and development of hyperspectral imaging in nondestructive measurement applications.

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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