Special Issue

Electromagnetic Nondestructive Testing

Message from the Guest Editor

Electromagnetic nondestructive testing is of great importance for inductive materials inspection, which has developed rapidly in recent years. New high-accuracy and high-efficiency methods are proposed and developed based on new electromagnetic phenomena, the fusion of multiple methods, new feature extraction methods, and new signal processing methods with artificial intelligence. This Special Issue focuses on a broad range of electromagnetic testing methods, sensors, instrument, signals, and information processing. Potential topics include but are not limited to the following:

- Eddy current testing;
- Magnetic flux leakage testing;
- Metal magnetic memory testing;
- Electromagnetic acoustic emission testing;
- Magnetic Barkhausen noise testing;
- Eddy current thermography;
- Electromagnetic acoustic transducer;
- Electromagnetic instrumentation;
- Signal and information processing;
- 3D reconstruction and imaging with data fusion;
- Machine learning for signal and image processing;
- Other artificial intelligence applications of signal and information processing.

Guest Editor

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Deadline for manuscript submissions

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Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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