Algorithms for Diagnostics and Nondestructive Testing

Guest Editor:

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Deadline for manuscript submissions:
closed (15 April 2020)

Message from the Guest Editor

Dear colleagues,

Nondestructive testing and evaluation methods have been in the spotlight of practitioners for a long time. NDT is considered today as one of the most innovative and fastest growing technologies. We are looking for new approaches for NDT purposes. High-quality papers are solicited to address both theoretical and practical issues of algorithms applied in diagnostics and nondestructive testing. Submissions are welcome both for traditional techniques, such as algorithms in active thermography, eddy current, or magnetic methods, as well as in new applications. Potential topics include but are not limited to the following:

- Direct and inverse problems;
- Algorithms for the determination of residual stresses;
- Fatigue and crack detection;
- Materials characterization;
- Novel signal processing algorithms;
- Computational intelligence in diagnostics;
- Machine learning and pattern recognition in diagnostics;
- Optimization in diagnostics and nondestructive testing;
- Diagnostics supported with soft computing methods;
- Case studies.

Special Issue

Editor-in-Chief

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Message from the Editor-in-Chief

Algorithms are the very core of Computer Science. The whole area has been considered from quite different perspectives, having led to the development of many sub-communities: Complexity theory (limitations), approximation or parameterized algorithms (types of problems), geometric algorithms (subject area), metaheuristics, algorithm engineering, medical imaging (applications), indicates the range of perspectives. Our journal welcomes submissions written from any of these perspectives, so that it may become a forum for exchange of ideas between the corresponding scientific subcommunities.

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