

Special Issue

Algorithms for Diagnostics and Nondestructive Testing

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.

Guest Editor

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Deadline for manuscript submissions

closed (15 April 2020)



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About the Journal

Message from the Editor-in-Chief

Algorithms are the core of computational mathematics and computer science. The whole area has been considered from different perspectives, which has led to the development of several sub-communities. The aim is to bring together researchers and practitioners from different areas of computational mathematics and computer science and to offer a platform for interdisciplinary applications in different areas of science and technology. In this way, *Algorithms* may become a forum for the exchange of new stimulating ideas between the different sub-communities working in the area of algorithms and their applications and the presentation of high-quality novel algorithmic approaches.

Editor-in-Chief

Prof. Dr. Frank Werner

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