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Adaptive Filtering Algorithms

Guest Editor:

Prof. Dr. Felix Albu
Department of Electronics,
Valahia University of Targoviste,
130082 Targoviste, Romania

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Message from the Guest Editor

Dear Colleagues,

Adaptive filters are an important component of many signal processing, communication or computing systems. The main (but not exclusive) theme of this Special Issue is adaptive filtering algorithms for various system identification applications, such as echo cancellation, active noise control, hearing aids, channel estimation, etc. Low complexity or sparsity-aware adaptive algorithm implementations for speech and image applications are also envisaged. Since the application areas are becoming wider with the development of mobile devices, the importance of the robustness of the adaptive algorithms in adverse environments is also addressed. Therefore, advanced linear and non-linear approaches are needed to design adaptive algorithms that make use of last generation architectures and efficient computing approaches.

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Guest Editor

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Editor-in-Chief

Prof. Dr. Frank Werner
Faculty of Mathematics, Otto-von-Guericke-University, P.O. Box 4120, D-39016 Magdeburg, Germany

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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Algorithms Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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algorithms@mdpi.com
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