

Special Issue

Nonlinear Estimation Advances and Results

Message from the Guest Editors

The aim of this Special Issue is to focus on advances in nonlinear estimation techniques and applications towards multimodal (e.g., multisensor, multiphenomenology, and multiresolution) data-processing in complex scenarios, software methods, and/or hardware devices. Submissions to this Special Issue on “Nonlinear Estimation Advancements and Results” are solicited to represent a snapshot of the field’s development by covering a range of topics that include, but are not limited to new methods, algorithms, solutions, and applications in the following areas:

- Federated, decentralized and distributed filtering;
- Dynamic data, feature, and decision fusion;
- Navigation, control, and coordination of autonomous systems;
- Biomedical, multimedia, and statistical signal processing;
- Communication, networking, and cyber analysis;
- Multi-dimensional, multimodal, multi-phenomenology characterization;
- Signals, data, and information understanding;
- Space, situation, and environment awareness;
- Shallow, deep, and temporal machine learning;
- Real-time algorithms for nonlinear estimation;
- Hardware-specific implementations of nonlinear estimation.

Guest Editors

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Dr. Jindrich Dunik
Prof. Dr. Ondřej Straka

Deadline for manuscript submissions

closed (31 December 2021)



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About the Journal

Message from the Editor-in-Chief

Electronics is a multidisciplinary journal designed to appeal to a diverse audience of research scientists, practitioners, and developers in academia and industry. The journal is devoted to fast publication of latest technological breakthroughs, cutting-edge developments, and timely reviews of current and emerging technologies related to the broad field of electronics. Experimental and theoretical results are published as regular peer-reviewed articles or as articles within Special Issues guestedited by leading experts in selected topics of interest.

Editor-in-Chief

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.4 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the second half of 2025).