



Signal Processing for Bi- and Multistatic Radar Systems

Guest Editor:

Prof. Dr. Mateusz Malanowski

Faculty of Electronics and
Information Technology, Warsaw
University of Technology,
Nowowiejska 15/19 Street, 00-
665 Warsaw, Poland

Deadline for manuscript
submissions:

closed (15 February 2023)

Message from the Guest Editor

Bi- and multistatic radar configurations bring certain challenges but also offer advantages over the classical monostatic setup. Since monostatic radars are well-researched, multistatic configurations have received greater attention. Important topics from the point of view of signal processing for multistatic radar systems include:

- Synchronization of different nodes;
- Localization;
- Detection strategies (centralized, decentralized);
- Target tracking;
- Beamforming;
- Multiple-Input, Multiple-Output (MIMO) operation;
- Forward-scattering phenomenon;
- Passive radar;
- Radar imaging (bi- and multistatic SAR/ISAR);
- Over the horizon detection;
- Space Surveillance Awareness (SSA) and Space Surveillance and Tracking (SST) applications.

Authors are invited to submit papers presenting original results on signal processing for multistatic radar systems.





sensors



an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Vittorio M. N. Passaro

Dipartimento di Ingegneria
Elettrica e dell'Informazione
(Department of Electrical and
Information Engineering),
Politecnico di Bari, Via Edoardo
Orabona n. 4, 70125 Bari, Italy

Message from the Editor-in-Chief

Sensors is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. *Sensors* organizes Special Issues devoted to specific sensing areas and applications each year.

Author Benefits

Open Access : free for readers, with [article processing charges \(APC\)](#) paid by authors or their institutions.

High Visibility: indexed within [Scopus](#), [SCIE \(Web of Science\)](#), [PubMed](#), [MEDLINE](#), [PMC](#), [Ei Compendex](#), [Inspec](#), [Astrophysics Data System](#), and [other databases](#).

Journal Rank: JCR - Q2 (*Chemistry, Analytical*) / CiteScore - Q1 (Instrumentation)

Contact Us

Sensors Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/sensors
sensors@mdpi.com
[X@Sensors_MDPI](#)