Special Issue

Ionizing Radiation Signal Propagation, Measurement, and Simulation

Message from the Guest Editor

- Ionizing radiation plays a central role in a wide range of scientific, technological, and medical applications—ranging from nuclear instrumentation and radiation protection to advanced diagnostic and therapeutic techniques in medicine and accurate modeling, detection, and analysis of radiation signals. Signal propagation, measurement, and simulation enable us to better understand radiation–matter interactions and improve radiation-based technologies. The rapid progress in computational tools and sensor technologies has further broadened the possibilities of research and application in this field.
- This Special Issue of *Signals* aims to highlight the importance of ionizing radiation research within the context of signal analysis, measurement methodologies, and simulation frameworks. It provides a platform for researchers and practitioners to present both original results and review articles on the propagation, measurement, and simulation of ionizing radiation signals. The scope aligns with the journal *Signals* by addressing advanced signal modeling, processing, and detection methods applied to radiation phenomena.

Guest Editor

Prof. Dr. Predrag Kuzmanović
1. Department of Physics, Faculty of Sciences, University of Novi Sad, Novi Sad, Serbia
2. Academy of Applied Studies Šabac, Šabac, Serbia

Deadline for manuscript submissions

30 April 2026

Signals

an Open Access Journal by MDPI

Impact Factor 2.6
CiteScore 4.6

mdpi.com/si/254891

Signals
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
signals@mdpi.com

mdpi.com/journal/signals

Signals

an Open Access Journal by MDPI

Impact Factor 2.6
CiteScore 4.6

mdpi.com/journal/signals

About the Journal

Message from the Editor-in-Chief

Our primary goal is to encourage scientists and engineers to publish their theoretical results and developed methods in as much detail as possible. There is no limit to the maximum length of papers. Whenever possible, authors are encouraged to provide relevant data and developed code so that the results can be reproduced. Our goal is to provide a platform for scientists and engineers to share new approaches to signal processing in various application domains.

Editor-in-Chief

Prof. Dr. Santiago Marco
1. Department of Electronics and Biomedical Engineering, University of Barcelona, Marti I Franqués 1, 08028 Barcelona, Spain
2. Signal and Information Processing in Sensor Systems, Institute for Bioengineering of Catalonia, The Barcelona Institute of Science and Technology, Baldiri Rexac 10-12, 08028 Barcelona, Spain

Author Benefits

High Visibility:

indexed within Scopus, ESCI (Web of Science), Inspec, and other databases.

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 22.9 days after submission; acceptance to publication is undertaken in 7.6 days (median values for papers published in this journal in the first half of 2025).

Journal Rank:

JCR - Q2 (Engineering, Electrical and Electronic) / CiteScore - Q2 (Engineering (miscellaneous))