

Special Issue

Bioelectronic Technologies and Artificial Intelligence for Medical Diagnosis and Healthcare

Message from the Guest Editors

The application of electronic findings to biology and medicine has significantly impacted health and wellbeing. Recent technology advances have allowed the development of new systems that can provide diagnostic information on portable point-of-devices or smartphones. We are inviting original research work covering novel theories, innovative methods, and meaningful applications that can potentially lead to significant advances. Keywords covering the Special Issue topic include:

- Chronic and acute pathologies;
- Cognitive and neurodegenerative disorders;
- Noninvasive physical sensing, e.g., vital functions;
- Medical imaging, including cellular;
- Machine learning and deep learning in biomedical sciences;
- Clinical decision support and reliability of decisions;
- Medical datasets and health technologies assessment;
- Health monitoring and compliance, also personalized;
- Rehabilitation, including home healthcare and independent living;
- Electronic health record systems, including personal;
- Data collection technologies and devices;
- Diagnostic speed, accuracy and reliability; and
- Regulatory science.

Guest Editors

Prof. Dr. Giovanni Dimauro

Department of Computer Science, University of Bari, 70121 Bari, Italy

Prof. Dr. Vitoantonio Bevilacqua

Dipartimento di Ingegneria Elettrica e dell'Informazione, Politecnico di Bari, 70126 Bari, Italy

Assoc. Prof. Dr. Leandro Pecchia

School of Engineering, University of Warwick, Coventry, UK

Deadline for manuscript submissions

closed (30 January 2021)



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Electronics
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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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 guest-edited by leading experts in selected topics of interest.

Editor-in-Chief

Prof. Dr. Flavio Canavero

Department of Electronics and Telecommunications, Politecnico di
Torino, 10129 Torino, Italy

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.8 days after submission; acceptance to publication is undertaken in 2.4 days (median values for papers published in this journal in the first half of 2025).