



## Advances in Wireless Body Area Networks (WBAN): Real-Time and Reliable Communications

Guest Editors:

**Dr. Rajan Kadel**

School of IT & Engineering,  
Melbourne Institute of  
Technology, The Argus, 288 La  
Trobe St., Melbourne, VIC 3000,  
Australia

**Prof. Dr. Tony Jan**

School of Design, Torrens  
University, Sydney, NSW 2007,  
Australia

**Dr. Paul Kwan**

School of Engineering and  
Technology, CQUniversity  
Brisbane, 160 Ann St., Brisbane  
City, QLD 4000, Australia

Deadline for manuscript  
submissions:

**closed (15 January 2024)**

### Message from the Guest Editors

Wireless body area networks (WBANs) can be seen as wireless networks in and around the human body. A WBAN combines the study of medical, non-medical fields, and communication technologies. WBAN has received increasing attention and has been widely researched due to its potential use in medical and non-medical applications.

This Special Issue is dedicated to publishing novel contributions from researchers around the world on the realization of real-time and reliable WBANs for various medical and non-medical applications. These contributions will address major challenges including energy harvesting, communications reliability, human body communications, wireless routing protocols, data security, data privacy, ICT ethical issues, wearable health monitoring, cloud computing, IoT, and machine learning in WBANs, to name a few. We therefore welcome researchers, academics, and industry experts who work in WBANs and the related fields to consider submitting original high-quality papers or comprehensive review papers to this Special Issue.





an Open Access Journal by MDPI

## Editor-in-Chief

**Prof. Dr. Flavio Canavero**

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

## 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.

## 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), CAPlus / SciFinder, Inspec, Ei Compendex and other databases.

**Journal Rank:** JCR - Q2 (*Physics, Applied*) / CiteScore - Q2 (*Control and Systems Engineering*)

## Contact Us

---

Electronics Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/electronics](http://mdpi.com/journal/electronics)  
[electronics@mdpi.com](mailto:electronics@mdpi.com)  
[X@electronicsMDPI](https://x.com/electronicsMDPI)