



2022 IEEE

SENSORS APPLICATIONS SYMPOSIUM

August 1-3, 2022 | SUNDSVALL, SWEDEN

SPECIAL SESSION CALL FOR PAPERS:

Edge computing for medical IoT: sensors, algorithms and applications for wearables and implantable HMIs



ORGANIZERS

Dr. Victor J. Kartsch Morinigo
Dr. Simone Benatti
Velu P. Kumaravel

IMPORTANT DATES

April 11, 2022
Initial Paper Submission due

May 23, 2022
First author notification

June 6, 2022
Revised paper deadline

June 13, 2022
Final decision

June 27, 2022
Final paper submission

Recent advances in embedded system design are enabling the use of wearable/implantable electronics in several domains, especially in HMI development and rehabilitation applications. The wave of medical IoT requires combining extreme energy efficiency on resource-constrained devices with the need for computationally demanding algorithms, such as deep learning frameworks.

This special session will collect contributions from different research domains, ranging from sensors technologies to embedded algorithm optimization. These multimodal contributions aim to enable more pervasive and ubiquitous systems to help design next-generation wearable/implantable systems.

Fields of interest include, but are not limited to:

- » Wearable/implantable devices
- » Artificial Intelligence and Machine Learning applications for medical IoT
- » Digital Low-power architectures for wearable devices
- » Recent advances in sensor technologies for biomedical applications and HMI

