

CALL FOR PAPERS
SPECIAL SESSION ON
Biomedical systems and sensors

Session Co-Chairs:

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Session description:

Biomedical engineering presents a major subject in modern medicine and healthcare systems. Several fields of engineering and research are proposed today within biomedical engineering tasks to improve the quality of human life. Among these fields, the acquisition and processing of clinical signals and images using smart sensors and optimal processing systems present major concerns for these kinds of tasks. Among these systems, the embedded architectures present processing units that vary according to the different sorts of data processing by responding to high complexities software and hardware applications. This makes these architectures very interesting subjects of study and research. With this in mind, this session will present a great opportunity to discover recent scientific work on the theme of biomedical systems and sensors. This allows significant visibility on future research projects and approaches to improve human life.

The principal topics planned to be covered are as follows, but are not limited to:

- Biomedical engineering,
- Hardware architectures design and optimisation,
- Biosensors,
- Sensors,
- Healthcare,
- Real time applications,
- Low power architectures,
- H/S co-design



Wissam JENKAL

Was born in Agadir, Morocco in 1991. He received the PhD degree in signal processing and embedded systems in 2018, from the National School of Applied Sciences, Ibn Zohr University, Agadir, Morocco. Currently, he is a Professor at the National School of Applied Sciences, Ibn Zohr University, Agadir, Morocco and member of the Laboratory of Systems Engineering and Information Technology (LISTI) in the same

engineering school. His current research interests include biomedical signal processing, embedded systems, Hardware-Software Design and Information Technologies



Boujemaa Nassiri

Was born in El Jadida, Morocco on January 1, 1974. He received the Master's degree in electronic Systems and the PhD degree in medical data processing in 2015 from Ibn Zohr University, Agadir, Morocco. Currently, He received the Habilitation degree. His research interests include biomedical signal and image processing, Deep learning, time-frequency signal processing and he is working on the modeling, filtering. Prof.NASSIRI is a member of the Smart Grid and Artificial Intelligence group (SGIA)-UNIVERSIAPOLIS -Agadir.



Rachid LATIF

Received the PhD degree in signal processing in 2000 and the Habilitation degree in 2005, from faculty of sciences, Ibn Zohr University, Morocco. Currently, he is a Professor with the Department of Industrial & Electrical Engineering, National School of Applied Sciences, Ibn Zohr University, Agadir, Morocco and he is the current responsible of this Department. His research interests include biomedical signal processing, biomedical instrumentation, embedded systems, artificial intelligence, information technology, Hardware Software Codesign and Precision Agriculture. From 2006 to 2014, he was the head of the signals systems and computer science group (ESSI). He was the Director of the LISTI Laboratory, which he founded in December 2014