

## Special Issue

# Advances in Intelligent Sensing Devices and Microsystems for Medical Applications

### Message from the Guest Editor

Microsystems have played a vital role in many advancements in the medical field. New opportunities for miniaturized sensors have led to many new applications. In the field of in-vitro devices, microsystems have enabled the use of smaller samples and led to shorter measurement times. In vivo devices can be divided into three categories: surface devices; externally communicating internal devices; and implants. All come with their own requirements and challenges. In many of these applications, the addition of intelligence into the sensors system can have great benefits. For example, minimizing power consumption in many applications. Hardware can achieve a reduction in power; when wireless transmission is used, the local intelligence can make decisions about what information should be sent and when. The same is the case for plasters for sensing. These are used to measure a number of parameters and send this information to a local device, such as mobile phones. This Special Issue aims to highlight the contribution and potential contribution of intelligent microsystems to the medical field.

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### Guest Editor

Prof. Dr. Paddy J. French

Department of Microelectronics, Delft University of Technology, 2628 CD Delft, The Netherlands

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## Sensors

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*Sensors*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[sensors@mdpi.com](mailto:sensors@mdpi.com)

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### Message from the Editor-in-Chief

*Sensors* is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. Sensors organizes Special Issues devoted to specific sensing areas and applications each year.

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### Editor-in-Chief

Prof. Dr. Vittorio M. N. Passaro

Dipartimento di Ingegneria Elettrica e dell'Informazione (Department of Electrical and Information Engineering), Politecnico di Bari, Via Edoardo Orabona n. 4, 70125 Bari, Italy

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