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Advances in Intelligent Sensing Devices and Microsystems for Medical Applications

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Message from the Guest Editor

Dear Colleagues,

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.

Prof. Dr. Paddy J. French

Guest Editor



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Special Issue



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Message from the Editor-in-Chief

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