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Biomedical Signal Acquisition and Processing Using Sensors

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Deadline for manuscript
submissions:

closed (31 March 2022)

Message from the Guest Editor

Dear Colleagues,

The development of new materials in recent decades has resulted in the acquisition of biomedical signals becoming more accessible for researchers. In fact, the new sensors for data recording are miniaturized and wearable and, above all, they are more sensitive and accurate with respect to signal acquisition. In particular, the current technologies have embedded preamplifiers that are able to increase the signal to noise ratio in the recording phase. Nevertheless, a component of noise persists in the recorded biomedical signals, such as line noise or muscular or electrical activity, which is necessary to remove as it could mask biological signals of interest. To reach this aim, several techniques of signal processing have been developed, but the choice of the best procedure of analysis is not trivial and is dependent on i) the type of sensor; ii) the recording protocol; and iii) the pathology to be studied.

We are inviting original research work covering novel theories, innovative methods, and meaningful applications that can potentially lead to significant advances in the field of signal processing applied to physiological and pathological data.



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Special Issue



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Message from the Editor-in-Chief

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