



# Advanced Biosignal Processing

*Amine Nait-Ali (Ed.)*

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## **Advanced Biosignal Processing** Amine Nait-Ali (Ed.)

Generally speaking, Biosignals refer to signals recorded from the human body. They can be either electrical (e. g. Electrocardiogram (ECG), Electroencephalogram (EEG), Electromyogram (EMG), etc. ) or non-electrical (e. g. breathing, movements, etc. ). The acquisition and processing of such signals play an important role in clinical routines. They are usually considered as major indicators which provide clinicians and physicians with useful information during diagnostic and monitoring processes. In some applications, the purpose is not necessarily medical. It may also be industrial. For instance, a real-time EEG system analysis can be used to control and analyze the vigilance of a car driver. In this case, the purpose of such a system basically consists of preventing crash risks. Furthermore, in certain other applications, a set of biosignals (e. g. ECG, respiratory signal, EEG, etc. ) can be used to control or analyze human emotions. This is the case of the famous polygraph system, also known as the “lie detector”, the efficiency of which remains open to debate! Thus when one is dealing with biosignals, special attention must be given to their acquisition, their analysis and their processing capabilities which constitute the final stage preceding the clinical diagnosis. Naturally, the diagnosis is based on the information provided by the processing system.

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