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of key recent advances in cognitive  
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invite researchers to contribute original work related to this special issue, in which only works related to the processing of one-dimensional signals are considered.

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Signal processing and analysis has been

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extensively used in the field of neuroscience. For example, (semi)automatic brain-based systems have been increasingly used in various medical applications such as in disease prevention, detection, and diagnosis, rehabilitation, smart education environments, security and authentication, and biometry.

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Importantly, the complexity analysis of brain signal, such as an electroencephalography (EEG), could be a marker for disease severity. Fan et al. applied machine learning algorithms to classify the different stages of AD using

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the complexity analysis of scalp EEG signals with an accuracy of 80% in differentiating normal and mild cognitive impairment (MCI).

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in the areas of neuroscience and neural engineering. These applications are famously known in the area of brain-machine interfaces. This book presents recent ...

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