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Brain Connectivity Complex Systems

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Message from the Guest Editors

In recent years, many papers have proposed the study of brain connectivity networks that are derived from the behaviour of many types of brain signals. The current proposal is based on the fact that the properties of the connectivity networks, inferred from the various options of the expert systems, can represent patterns of brain behaviour. This approach is based on the concept of the brain as a complex system in which the inter-relationships (edges) between various areas of the brain (nodes) can be modeled as a complex network in an activation situation, that is, when solving some cognitive task, or even at rest. The brain functional network can be associated with various states of brain function. From this perspective, it would be feasible to study complexity as a discriminating factor between, for example, clinical populations or between different differential states within the same population. On the other hand, the relationship between these connectivity patterns can be analysed with various representative variables of different states and circumstances of people, such as evaluations of quality of life or moods.

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Message from the Editor-in-Chief

The concept of entropy is traditionally a quantity in physics that has to do with temperature. However, it is now clear that entropy is deeply related to information theory and the process of inference. As such, entropic techniques have found broad application in the sciences.

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