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# **Brain Connectivity Complex Systems**

Guest Editors:

### Prof. Dr. Joan Guàrdia-Olmos

Quantitative Psychology Section. Faculty of Psychology. Institute of Neuroscience. UB Institute of Complex Systems. University of Barcelona, Barcelona, E-08028 Barcelona, Spain

#### Prof. Dr. Albert Diaz-Guilera

Professor of Condensed Matter Physics, Departament de Fisica de la Materia Condensada / Institute of Complex Sytems Universitat de Barcelona, Spain

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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 circumstances of people, such as evaluations of quality of life or moods













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### Prof. Dr. Kevin H. Knuth

Department of Physics, University at Albany, 1400 Washington Avenue, Albany, NY 12222, USA

### **Message from the Editor-in-Chief**

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