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Information Theory and Complexity Science Approaches to Health Conditions and Cognitive Decline

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Deadline for manuscript submissions:
closed (30 June 2019)

Message from the Guest Editors

Dear Colleagues,

This Special Issue aims to disseminate the latest findings in the investigation and characterisation of health conditions and cognitive decline, using information theory and nonlinear complexity science approaches. We welcome manuscripts presenting novel findings that promise to revolutionise the health and cognitive sciences, in addition to those introducing novel algorithms to quantify the degree of a health-related condition through the assessment of the structural complexity of pathological signals. In particular, we encourage submissions on data acquired from wearable devices, such as 'hearables', which are very convenient for the user, but record typically weaker signals, with an overall signal quality that is compromised (due to artefacts or noise).

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Guest Editor

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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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