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An integrative overview of network approaches to neuroscience explores the origins of brain complexity and the link between brain structure and function. Over the last decade, the study of complex networks has expanded across diverse scientific fields. Increasingly, science is concerned with the structure, behavior, and evolution of complex systems ranging from cells to ecosystems.

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sets of brain regions that contribute to the performance of some set of related tasks or a particular set of functions. Often these architectures are explicitly referred to as networks, for example, the default mode network (Raichle et al., 2001) and the attention networks (e.g., Corbetta and Shulman, 2002).

Brain Networks and Cognitive Architectures - cell.com

human neuroimaging and clinical disorders, network evolution, development, damage and repair. Computational Neuroscience Dynamic models of brain networks, neural synchrony and binding, information-theoretical measures of functional interactions, models of cognitive systems, neuroinformatics.

OLAF SPORNS - CURRICULUM VITAE

Olaf Sporns. Olaf Sporns (b. Kiel, West Germany) is Provost Professor in Psychological and Brain Sciences at Indiana University and Scientific Co-Director of the Indiana University Network Science Institute. He is also the founding editor of the academic journal Network Neuroscience, published by MIT Press. Dr.

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