

## Cognitive Network Neuroscience Mit Press Journals

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Network neuroscience is a rapidly growing field that is providing considerable insight into human structural connectivity, functional connectivity while at rest, changes in functional networks over time (dynamics), and how these properties differ in clinical populations.

### Cognitive Network Neuroscience - MIT Press Journals

Cognitive network neuroscience (C = Cognitive state). A schematic representation of functional brain networks during cognition. Cognitive modules are indicated by collections of identically colored nodes organized into network modules. The organization of brain networks varies across cognitive states and time.

### Cognitive Network Neuroscience - MIT Press Journals

George R. Mangun is Director of the Center for Mind and Brain, Distinguished Professor of Psychology and Neurology, and Director of the Kavli Summer Institute in Cognitive Neuroscience at the University of California, Davis, and coeditor of the fifth edition of The Cognitive Neurosciences (MIT Press).

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Some of the main lines of research in this direction involved whole-brain network similarity analyses on the intrinsic and task-evoked network architecture of human connectome (Cole et al., 2014); the mapping of cortical hubs and brain region for adaptive task control (so-called cognitive control network (Cole et al., 2013; Cole & Schneider, 2007); and the investigation of activity flow from ...

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To better understand the large-scale brain network mechanisms underlying this variability, we examined the relationship between mental health symptoms and resting-state functional connectivity patterns in cognitive control systems. One such system is the fronto-parietal cognitive control network (FPN).

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In this review, we outline the contributions of network science to cognitive neuroscience. We describe the methodology of network science as applied to the particular case of neuroimaging data and review its uses in investigating a range of cognitive functions including sensory processing, language, emotion, attention, cognitive control, learning, and memory.

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Leaders in the cognitive neurosciences address a variety of topics in the field and reflect on Michael Gazzaniga's pioneering work and enduring influence. These essays on a range of topics in the cognitive neurosciences report on the progress in the field over the twenty years of its existence and reflect the many groundbreaking scientific contributions and enduring influence of Michael ...