



Functional Magnetic Resonance Imaging, Second Edition

By Scott A. Huettel, Allen W. Song, Gregory McCarthy

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Functional Magnetic Resonance Imaging was the first textbook to provide a true introduction to fMRI designed with undergraduate students, graduate students, and beginning researchers in mind. Among the changes to the Second Edition are: Revised MR physics chapters that include parallel conceptual and quantitative paths, allowing students from diverse backgrounds and interests to readily navigate these topics. Expanded discussion of fMRI data analysis, with separate chapters on standard hypothesis-driven analyses and advanced exploratory analyses. Expanded coverage of experimental design that includes new approaches to efficient creation of fMRI experiments. Revised discussion of the physiological basis of fMRI to include recent discoveries about the origins of the BOLD response. A new Ethics chapter that discusses controversies, ethical and social concerns, and popular interpretations of fMRI research. Increased coverage of the integration of fMRI with other cognitive neuroscience techniques. New topics in the Advanced Methods chapter, reflecting cutting-edge developments in the field. Updated references and suggested readings throughout.

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Editorial Review

About the Author

SCOTT A. HUETTEL is Associate Professor in the Brain Imaging and Analysis Center and Center for Cognitive Neuroscience at Duke University. He is also faculty in the Departments of Psychiatry, Neurobiology, and Psychology. He received a Ph.D. in Experimental Psychology from Duke University. His research uses behavioral and functional neuroimaging techniques to investigate the executive control of behavior, with particular focus on decision-making, reward evaluation, and neuroeconomics. ALLEN W. SONG is Director of the Brain Imaging and Analysis Center and Professor in the Departments of Radiology and Biomedical Engineering at Duke University. His Ph.D., in Biophysics, was earned from the Medical College of Wisconsin. His research involves the development and optimization of new methods to improve the functional sensitivity and specificity of fMRI. A central focus is the development of alternative contrast mechanisms for fMRI, including diffusion and perfusion imaging and direct imaging of neuronal activity. GREGORY MCCARTHY is Professor of Psychology at Yale University. He is also a Research Career Scientist for the Department of Veterans Affairs. He received his Ph.D. in Biological Psychology from the University of Illinois at Urbana-Champaign. Dr. McCarthy is broadly interested in the functional anatomy of the human brain, an interest he has pursued using behavioral, electrophysiological, and neuroimaging methods. One goal of his research is to elucidate the brain mechanisms of high-level visual function, particularly with regard to perception of faces and visual motion cues for social cognition. Another line of research investigates executive functions, particularly in the frontal lobe, and how they are altered by distracting or emotional stimuli.

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