

Cognitive Science: An Introduction to the Study of Mind

By Jay D. Friedenberg, Gordon W. Silverman



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Substantially revised, this **Second Edition** includes the latest breakthroughs in this fast-moving field. The authors present emerging areas of network science, dynamical systems theory, behavioral economics, and animal intelligence and tie each area to discoveries in psychology, neuroscience, and cognition. Major findings are placed in the context of the theories and models of cognition and critically evaluated. Providing a unifying framework, pedagogical features help students understand the different methodologies and perspectives in cognitive science.

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Editorial Review

Review

"I like the Friedenberg and Silverman Cognitive Science because I've found it to be a more inviting entree to this complex interdisciplinary field than other texts I've previously used. The authors really do a fine job distilling the essential questions from each discipline that contributes to cognitive science for novice students. End-of-chapter reviews are thought-provoking. I'm eagerly awaiting the second addition, with its excellent additional chapters on social and emotional cognition. I think it will improve an already great teaching resource!" (Kathleen M. Galotti 2011-04-08)

"The strength of this book is the systematic introduction of the disciplines, methods, and viewpoints that constitute cognitive science. Other books are not as systematic and comprehensive on the overall endeavor of cognitive science. They do not as systematically evaluate different viewpoints as this book does." (Marc Pomplun)

"I like the inclusion of the new chapters on emotional cognition and social cognition. The most impressive aspect of this book to students is its ability to make a large amount of complex material accessible to students." (Emanual Mason)

About the Author

Jay Friedenberg is Chair and Professor of the Psychology Department at Manhattan College, where he directs the Cognitive Science program. He obtained his Ph.D. in cognitive psychology in 1995 at the University of Virginia. He is interested in both vision and the philosophy of mind. He teaches courses in physiological psychology, learning and cognition, sensation and perception, and cognitive science. Dr. Friedenberg has published several articles on visual estimation of center of mass. His current research projects are investigating image statistics, picture perception, and the aesthetics of geometrical shapes. He has published books on artificial intelligence, chaos theory and psychology. He is a member of the Eastern Psychological Association, the Vision Science Society, The Psychonomic Society and Phi Beta Kappa.

Gordon Silverman is Chair of Electrical and Computer Engineering at Manhattan College. His professional career spans more than 50 years of corporate, teaching, consulting, and research experience, during which he has developed a range of scientific instruments, particularly for use in physiological psychology research environments. He is the holder of eight patents, some related to behavior modification. The author of more than 20 journal articles and books, he has also served on the faculties of The Rockefeller University and Fairleigh Dickinson University. Dr. Silverman's current research interests include telemedicine, rehabilitation medicine, artificial intelligence, and biomedical instrumentation and modeling.

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