Edited by Joao Eduardo Kogler Jr., Frederick Adams, Osvaldo Pessoa Jr.

Cognitive Science

Recent Advances and Recurring Problems

About the editor

Fred Adams is Professor of Cognitive Science and Philosophy at the University of Delaware. His interests include research on knowledge, language, intentional action, memory, and ethics. He authored the book The Bounds of Cognition in 2008.

Osvaldo Pessoa Jr. is a philosopher of science at the University of Sao Paulo. His research interests include philosophy of physics, computational modeling of the history of science, and philosophy of mind.
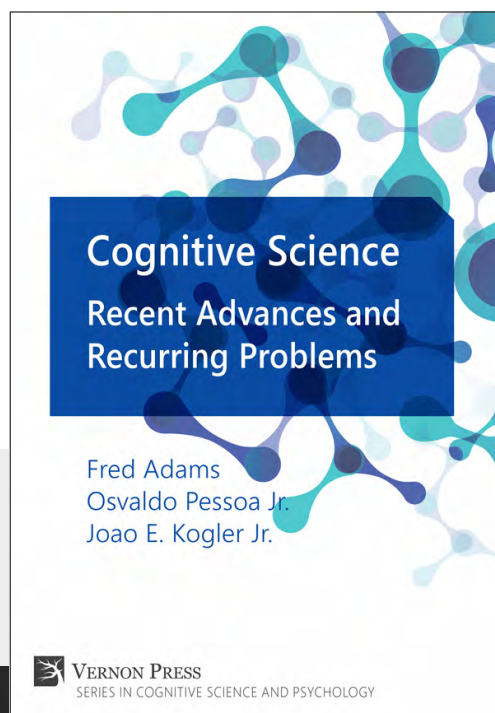
Joao E. Kogler Jr. is Physicist and Electrical Engineer at the University of Sao Paulo. He worked many years with computational intelligence, computer vision, image processing and mathematical modeling of visual perception, and currently his fields of research include cognitive science, cognitive robotics and cognitive architectures.

"The volume is a wide-ranging sampler of topics in cognitive science, broadly constructed. The papers include multiple historical, philosophical, and scientific perspectives. There is good coverage of topics that will be familiar to the majority of cognitive scientists, such as embodied cognition, autonomous action, the role of brain connectivity in understanding cognition, and computational modeling. There are also some nice papers that broach topics a bit more off the beaten path, such as the non-image forming visual system, the history of neuroscience, and cognition in Peirce's semiotic. In short, there seems to be something in this collection for everyone."

Prof. Kenneth Aizawa,
Rutgers–Newark Colleges of Arts & Sciences,
The State University of New Jersey

Summary

This book consists of an edited collection of original essays of the highest academic quality by seasoned experts in their fields of cognitive science. The essays are interdisciplinary, drawing from many of the fields known collectively as "the cognitive sciences." Topics discussed represent a significant cross-section of the most current and interesting issues in cognitive science. Specific topics include matters regarding machine learning and cognitive architecture, the nature of cognitive content, the relationship of information to cognition, the role of language and communication in cognition, the nature of embodied cognition, selective topics in visual cognition, brain connectivity, computation and simulation, social and technological issues within the cognitive sciences, and significant issues in the history of neuroscience. This book will be of interest to both professional researchers and newer students and graduate students in the fields of cognitive science—including computer science, linguistics, philosophy, psychology and neuroscience. The essays are in English and are designed to be as free as possible of technical jargon and therefore accessible to young scholars and to scholars who are new to the cognitive neurosciences. In addition to several entries by single authors, the book contains several interesting roundtables where researchers contribute answers to a central question presented to those in the focus group on one of the core areas listed above. This exciting approach provides a variety of perspectives from across disciplines on topics of current concern in the cognitive sciences.

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