



オックスフォード認知科学ハンドブック The Oxford Handbook of Cognitive Science

Edited by **Susan E. F. Chipman**

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- ◇ 認知科学の最も中心的な研究成果について強調し、将来の研究に不可欠な資料を提供。
- ◇ 認知科学の伝統的な諸分野と読者が追求しているテーマとの交点を例示します。
- ◇ 基本的な認知モデルについて論じ、複雑な認知機能の探求に必要な情報を提供します。

Cognitive Science is an avowedly multidisciplinary field, drawing upon many traditional disciplines or research areas--including Linguistics, Neuroscience, Philosophy, Psychology, Anthropology, Artificial Intelligence, and Education--that contribute to our understanding of cognition. Just as learning and memory cannot truly prove effective as disconnected studies, practical applications of cognitive research, such as the improvement of education and human-computer interaction, require dealing with more complex cognitive phenomena by integrating the methods and insights from multiple traditional disciplines. The societal need for such applications has played an important role in the development of cognitive science.

The Oxford Handbook of Cognitive Science emphasizes the research and theory that is most central to modern cognitive science. Sections of the volume address computational theories of human cognitive architecture; cognitive functioning, such as problem solving and decision making as they have been studied with both experimental methods and formal modeling approaches; and cognitive linguistics and the advent of big data. Chapters provide concise introductions to the present achievements of cognitive science, supplemented by references to suggested reading, and additional facets of cognitive science are discussed in the handbook's introductory chapter, complementing other key publications to access for further study. With contributions from among the best representatives in their fields, this volume will appeal as the critical resource for the students in training who determine the future of cognitive science.

CONTENTS:

An Introduction to Cognitive Science (Susan E.F. Chipman).

Part I: The New Computational Psychology: Cognitive Architectures and the Computational Modeling of Cognition

1. ACT-R and Beyond (Dario D. Salvucci).
2. A Summary of the EPIC Cognitive Architecture (David E. Kieras).
3. The CAPS Family of Cognitive Architectures (Sashank Varma).
4. Connectionism and the Emergence of Mind. (Stephen J. Flusberg & James L. McClelland).
5. The Lebra Cognitive Architecture: How to Play 20 Principles with Nature and Win! (Randall C. O'Reilly, Thomas E. Hazy, and Seth A. Heard).
6. The CLARION cognitive architecture: Toward a comprehensive theory of the mind (Ron Sun).

Part II: Cognitive Science Perspectives on Classic Problems in Psychology

7. Concepts, Meaning, and Conceptual Relationships (Bradley C. Love).
8. An Integrative Account of Psychological Time (Hedderik van Rijn & Neils A. Taatgen).
9. The Central Questions of Spatial Cognition (Allison S. Liu & Christian D. Schunn).
10. Causal relations: Kant, Unity and Diversity (Clayton Lewis).

11. The Cognitive Science Approach to Learning and Memory (Matthew M. Walsh & Marsha C. Lovett).
12. Problem Solving (Stephen K. Reed).
13. Decision Making: A Cognitive Science Perspective (Cleotilde Gonzalez).
14. What Brain Imaging Reveals About the Nature of Multitasking (Marcel Adam Just & Augusto Buchweitz).

Part III: The Cognitive Science of Language

15. Cognitive Linguistics (Vyvyan Evans).
16. WordNet: An Electronic Lexical Resource (Christiane Fellbaum).
17. VerbNet: Capturing English Verb Behaviour, Meaning and Usage (Martha Palmer, Claire Bonial, & Jena D. Hwang).
18. Natural Language Processing (Sergei Nirenburg & Majorie J. McShane)

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Susan Chipman, PhD, managed the Cognitive Science program at the U.S. Office of Naval Research for 22 years. Previously, she was Assistant Director of the National Institute of Education, where she was responsible for research programs in mathematics education, cognitive development, and computers in education. Educated at Harvard, she is a Fellow of both APA and APS and was named an honorary lifetime member of the Cognitive Science Society in recognition of her contributions to the field.

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