### Contents

**List of Contributors**  
page xi

1. Introduction  
1

**PART I**  
THE COGNITIVE SCIENCE OF CONSCIOUSNESS

A. PHILOSOPHY

2. A Brief History of the Philosophical Problem of Consciousness  
William Seager  
9

3. Philosophical Theories of Consciousness: Contemporary Western Perspectives  
Uriah Kriegel  
35

4. Philosophical Issues: Phenomenology  
Evan Thompson and Dan Zahavi  
67

5. Asian Perspectives: Indian Theories of Mind  
Georges Dreyfus and Evan Thompson  
89

B. COMPUTATIONAL APPROACHES TO CONSCIOUSNESS

6. Artificial Intelligence and Consciousness  
Drew McDermott  
117

7. Computational Models of Consciousness: A Taxonomy and Some Examples  
Ron Sun and Stan Franklin  
151

C. COGNITIVE PSYCHOLOGY

8. Cognitive Theories of Consciousness  
Katharine McGovern and Bernard J. Baars  
177

9. Behavioral, Neuroimaging, and Neuropsychological Approaches to Implicit Perception  
Daniel J. Simons, Deborah E. Hannula, David E. Warren, and Steven W. Day  
207
## Contents

**PART I**

### G. Anthropology/Social Psychology of Consciousness

10. Three Forms of Consciousness in Retrieving Memories
   **Henry L. Roediger III, Suparna Rajaram, and Lisa Geraci**
   251

11. Metacognition and Consciousness
   **Asher Koriat**
   289

12. Consciousness and Control of Action
   **Carlo Umiltà**
   327

### D. Linguistic Considerations

13. Language and Consciousness
   **Wallace Chafe**
   355

14. Narrative Modes of Consciousness and Selfhood
   **Keith Oatley**
   375

### E. Developmental Psychology

15. The Development of Consciousness
   **Philip David Zelazo, Helena Hong Gao, and Rebecca Todd**
   405

### F. Alternative States of Consciousness

16. States of Consciousness: Normal and Abnormal Variation
   **J. Allan Hobson**
   435

17. Consciousness in Hypnosis
   **John F. Kihlstrom**
   445

18. Can We Study Subjective Experiences Objectively? First-Person Perspective Approaches and Impaired Subjective States of Awareness in Schizophrenia
   **Jean-Marie Danion and Caroline Huron**
   481

19. Meditation and the Neuroscience of Consciousness: An Introduction
   **Antoine Lutz, John D. Dunne, and Richard J. Davidson**
   499

### H. Psychodynamic Approaches to Consciousness

20. Social Psychological Approaches to Consciousness
   **John A. Bargh**
   555

21. The Evolution of Consciousness
   **Michael C. Corballis**
   571

22. The Serpent's Gift: Evolutionary Psychology and Consciousness
   **Jesse M. Bering and David F. Bjorklund**
   597

23. Anthropology of Consciousness
   **C. Jason Throop and Charles D. Laughlin**
   631

### Part II

### A. Neurophysiological Mechanisms of Consciousness

25. Hunting the Ghost: Toward a Neuroscience of Consciousness
   **Petra Stoerig**
   707

26. Neurodynamical Approaches to Consciousness
   **Diego Cosmelli, Jean-Philippe Lachaux, and Evan Thompson**
   731

### B. Neuropsychological Aspects of Consciousness: Disorders and Neuroimaging

27. The Thalamic Intralaminar Nuclei and the Property of Consciousness
   **Joseph E. Bogen**
   771
28. The Cognitive Neuroscience of Memory and Consciousness
   Scott D. Slotnick and Daniel L. Schachter
   809

29. The Affective Neuroscience of Consciousness: Higher-Order Syntactic Thoughts, Dual Routes to Emotion and Action, and Consciousness
   Edmund T. Rolls
   831

DA. SOCIAL NEUROSCIENCE OF CONSCIOUSNESS
30. Consciousness: Situated and Social
   Ralph Adolphs
   863

PART III
QUANTUM APPROACHES TO CONSCIOUSNESS
31. Quantum Approaches to Consciousness
   Henry Stapp
   881

Author Index
909
Subject Index
939