## Table of contents

| Acknowledgement  | VII |
|--|-----|
| Contributors   | IX  |
| Introduction: Attention to implicit learning  Luis Jiménez   | 1   |
| I. The cognitive debate  |     |
| Attention and awareness in "implicit" sequence learning<br>David R. Shanks   | 11  |
| Intention, attention, and consciousness in probabilistic sequence learning  Luis Jiménez   | 43  |
| II. Neuroscientific and computational approaches   |     |
| Neural structures that support implicit sequence learning<br>Eliot Hazeltine and Richard B. Ivry                                     | 71  |
| The cognitive neuroscience of implicit category learning<br>F. Gregory Ashby and Michael B. Casale                                   | 109 |
| Structure and function in sequence learning: Evidence from experimental, neuropsychological and simulation studies  Peter F. Dominey | 143 |
| Temporal effects in sequence learning  Arnaud Destrebecqz and Axel Cleeremans  | 181 |
| Implicit and explicit learning in a unified architecture of cognition<br>Dieter Wallach and Christian Lebiere                        | 215 |

## III. Reciprocal influences: Implicit learning, attention, and beyond

| Visual orienting, learning and conscious awareness  Tony Lambert  | 253 |
|---|-----|
| Contextual cueing: Reciprocal influences between attention and implicit learning  Yuhong Jiang and Marvin M. Chun   | 277 |
| Attention and implicit memory Neil W. Mulligan and Alan S. Brown  | 297 |
| Verbal report of incidentally experienced environmental regularity: The route from implicit learning to verbal expression of what has been learned  Peter A. Frensch, Hilde Haider, Dennis Rünger, Uwe Neugebauer, Sabine Voigt and Jana Werg | 335 |
| Author index  | 367 |

379

Subject index