

Springer

1st
edition

1st ed. 2019, XVIII, 278 p.
49 illus., 38 illus. in color.

Printed book

Hardcover

Printed book

Hardcover

ISBN 978-3-319-97549-8

£ 129,99 | CHF 177,00 | 149,99 € |
164,99 € (A) | 160,49 € (D)

Available

Discount group

Science (SC)

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Engineering : Complexity

Aldinhas Ferreira, M.I., Silva Sequeira, J., Ventura, R. (Eds.)

Cognitive Architectures

- Provides an integrated framework for natural and artificial cognition
- Identifies the fundamental role played by the cognitive architecture in the dialectics agent/environment
- Goes a step further from bio-inspired design methodology to semiotically determined design

This book provides an integrated framework for natural and artificial cognition by highlighting the fundamental role played by the cognitive architecture in the dialectics with the surrounding environment and consequently in the definition of a particular meaningful world. This book is also about embodied and non-embodied artificial systems, cognitive architectures that are human constructs, meant to be able to populate the human world, capable of identifying different life contexts and replicating human patterns of behavior capable of acting according to human values and conventions, systems that perform tasks in a human-like way. By identifying the essential phenomena at the core of all forms of cognition, the book addresses the topic of design of artificial cognitive architectures in the domains of robotics and artificial life. Moving from mere bio-inspired design methodology it aims to open a pathway to semiotically determined design.

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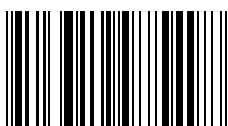
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