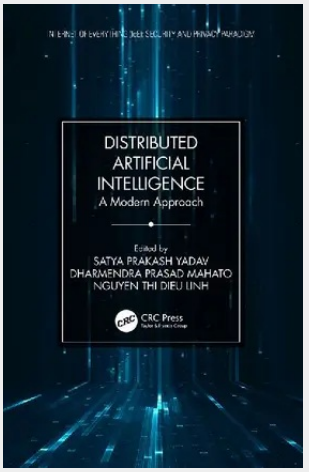
Yadav / Mahato / Linh

Distributed Artificial Intelligence

A Modern Approach



Distributed Artificial Intelligence (DAI) came to existence as an approach for solving complex learning, planning, and decision-making problems. When we talk about decision making, there may be some meta-heuristic methods where the problem solving may resemble like operation research. But exactly, it is not related completely to management research. The text examines representing and using organizational knowledge in DAI systems, dynamics of computational ecosystems, and communication-free interactions among rational agents. This publication takes a look at conflict-resolution strategies for nonhierarchical distributed agents, constraint-directed negotiation of resource allocations, and plans for multiple agents. Topics included plan verification, generation, and execution, negotiation operators, representation, network management problem, and conflict-resolution paradigms. The manuscript elaborates on negotiating task decomposition and allocation using partial global planning and mechanisms for assessing nonlocal impact of local decisions in distributed planning. The book will attract researchers and practitioners who are working in management and computer science, and industry persons in need of a beginner to advanced understanding of the basic and advanced concepts.

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232,40 €
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Lieferfrist: bis zu 10 Tage

Artikelnummer: 9780367466657
Medium: Buch
ISBN: 978-0-367-46665-7
Verlag: CRC Press
Erscheinungstermin: 18.12.2020
Sprache(n): Englisch
Auflage: 1. Auflage 2020
Serie: Internet of Everything (IoE)
Produktform: Gebunden
Gewicht: 1000 g
Seiten: 336
Format (B x H): 161 x 240 mm

Kundenservice Verlag Dr. Otto Schmidt KG
Neumannstraße 10, 40235 Düsseldorf | kundenservice@otto-schmidt.de | 0221-93738-997 (Inland)