Ishida

Parallel, Distributed and Multiagent Production Systems

This monograph coherently presents a series of research results on concurrent production systems recently contributed by the author and several co-authors. Before going into the details of concurrent production systems the performance of a single system is discussed. Based on these considerations it is explained how to estimate the efficiency of production systems programs and how to automatically determine efficient join structures. Parallel systems, including algorithms for parallel rule firings, distributed systems under distributed control, and particularly multiagent production systems and the related control issues are investigated. Finally a meta-level control architecture is applied to the construction of the multiagent system CoCo for public telecommunication network control.

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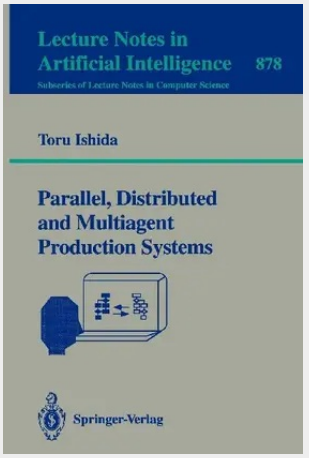

37,44 €
34,99 € (zzgl. MwSt.)

Lieferfrist: bis zu 10 Tage

Artikelnummer: 9783540586982
Medium: Buch
ISBN: 978-3-540-58698-2
Verlag: Springer
Erscheinungstermin: 23.11.1994
Sprache(n): Englisch
Auflage: Erscheinungsjahr 1994
Serie: Lecture Notes in Computer Science
Produktform: Kartoniert
Gewicht: 300 g
Seiten: 172
Format (B x H): 155 x 235 mm

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