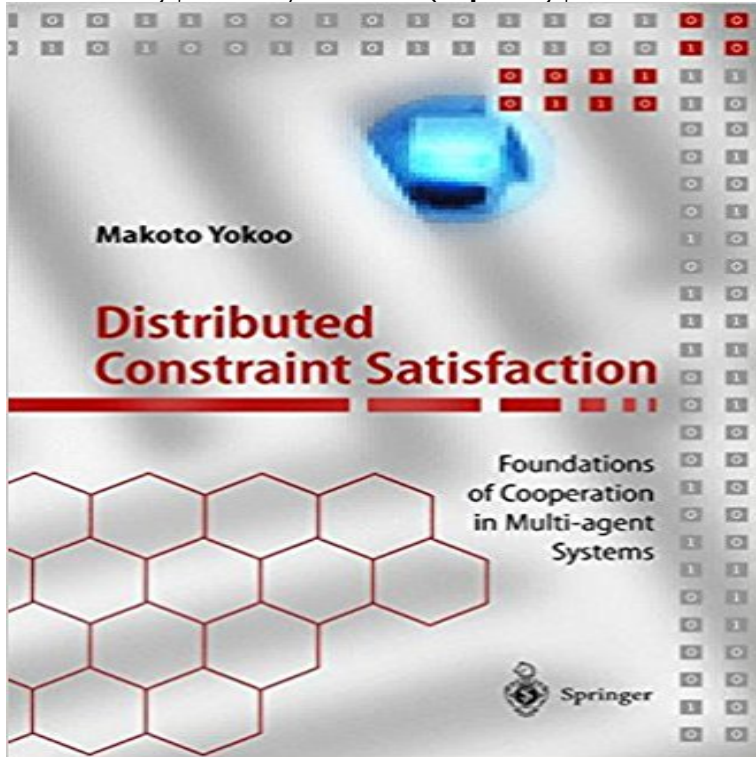


Distributed Constraint Satisfaction: Foundations of Cooperation in Multi-agent Systems (Springer Series on Agent Technology)



Distributed Constraint Satisfaction gives an overview of Constraint Satisfaction Problems (CSPs), adapts related search algorithms and consistency algorithms for applications to multi-agent systems, and consolidates recent research devoted to cooperation in such systems. The techniques introduced are applied to various problems in multi-agent systems. Among the new approaches is a hybrid-type algorithm for weak-commitment search combining backtracking and iterative improvement. Also, an extension of the basic CSP formalization called Partial CSP is introduced in order to handle over-constrained CSPs.

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