1. Record Nr. UNINA9910141513503321

Autore	Lorca Xavier
Titolo	Tree-based graph partitioning constraint [[electronic resource] /] / Xavier Lorca
Pubbl/distr/stampa	London, : ISTE Hoboken, N.J., : Wiley, 2011
ISBN	1-118-60430-X 1-299-14154-4 1-118-60447-4 1-118-60360-5
Descrizione fisica	1 online resource (252 p.)
Collana	ISTE
Classificazione	MAT029000
Disciplina	005.1/16 005.116
Soggetti	Constraint programming (Computer science) Graph theory Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	pt. 1. Constraint programming and foundations of graph theory -- pt. 2. Characterization of tree-based graph partitioning constraints -- pt. 3. Implementation : task planning -- pt. 4. Conclusion and future work.
Sommario/riassunto	Combinatorial problems based on graph partitioning enable us to mathematically represent and model many practical applications. Mission planning and the routing problems occurring in logistics perfectly illustrate two such examples. Nevertheless, these problems are not based on the same partitioning pattern: generally, patterns like cycles, paths, or trees are distinguished. Moreover, the practical applications are often not limited to theoretical problems like the Hamiltonian path problem, or K-node disjoint path problems. Indeed, they usually combine the graph partitioning problem with sever