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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