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MULTI-OBJECTIVE COMBINATORIAL OPTIMIZATION PROBLEMS AND SOLUTION METHODS

Project summary:
Combinatorial optimization problems appear in a wide range of applications in operations research, engineering, biological sciences, and computer science. Many combinatorial optimization approaches have been developed that link the discrete universe to the continuous universe through geometric, analytic, and algebraic techniques. Optimization problems with multi-objective arise in a natural fashion in most disciplines and their solution has been a challenge to researchers for a long time. Despite the considerable variety of techniques developed in Operations Research (OR) and other disciplines to tackle these problems, the complexities of their solution call for alternative approaches. In this book, we will discuss the results of a recent multi-objective combinatorial optimization achievement considering metaheuristic, mathematical programming, heuristic, hyper heuristic, and hybrid approaches. In other words, this book intends to show a diversity of various multi-objective combinatorial optimization issues that may benefit from different methods in theory and practice.

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Important dates:
Chapter proposals: **April 15, 2020**
Decisions from editors: **April 30, 2020**
Full submission of chapters: **July 15, 2020**
Feedback of reviews: **October 31, 2020**
Revised chapter submission: **November 30, 2020**
Final acceptance notifications: **December 30, 2020**

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