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Titolo	Combinatorial Models for Scheduling Sports Tournaments / / by Celso C. Ribeiro, Sebastián Urrutia, Dominique de Werra
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Edizione	[1st ed. 2023.]
Descrizione fisica	1 online resource (xxv, 175 pages) : illustrations (some color)
Collana	EURO Advanced Tutorials on Operational Research, , 2364-6888
Disciplina	511.6
Soggetti	Operations research Management science Mathematical optimization Calculus of variations Sports - Economic aspects Operations Research and Decision Theory Operations Research, Management Science Calculus of Variations and Optimization Sports Economics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Leagues, tournaments, and schedules -- Combinatorial structures -- Metaheuristics and local search -- Integer programming approaches -- Case studies. .
Sommario/riassunto	This book introduces solutions for sports scheduling problems in a variety of settings. In particular the book covers timetabling, the traveling tournament problem, carryover minimization, breaks minimization, tournament design, tournament planning, and referee assignment. A rich selection of applications to sports such as football, baseball, basketball, cricket or hockey are employed to illustrate the methods and techniques. In a step-by-step tutorial format the book describes the use of graph theory concepts, local search operators and integer programming in the context of sports scheduling. The methods presented in this book are essential to sports scheduling in all its dimensions, from tournaments that are followed by millions of people

across the world, with broadcast rights that amount to hundreds of millions of dollars in some competitions, to amateur leagues that require coordination and logistical efforts due to the large number of tournaments and competitors.
