

1. Record Nr.	UNINA9910449967903321
Autore	Dempe Stephan
Titolo	Foundations of Bilevel Programming [[electronic resource] /] / by Stephan Dempe
Pubbl/distr/stampa	Boston, MA : , : Springer US, , 2002
ISBN	0-306-48045-X
Descrizione fisica	1 online resource (VIII, 309 p.)
Collana	Nonconvex Optimization and Its Applications, , 1571-568X ; ; 61
Classificazione	90C30 34-01
Disciplina	515.64
Soggetti	Mathematics Operations research Decision making Mathematical optimization Calculus of variations Calculus of Variations and Optimal Control; Optimization Operation Research/Decision Theory Optimization Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Applications -- Linear Bilevel Problems -- Parametric Optimization -- Optimality Conditions -- Solution Algorithms -- Nonunique Lower Level Solution -- Discrete Bilevel Problems.
Sommario/riassunto	Bilevel programming problems are hierarchical optimization problems where the constraints of one problem (the so-called upper level problem) are defined in part by a second parametric optimization problem (the lower level problem). If the lower level problem has a unique optimal solution for all parameter values, this problem is equivalent to a one-level optimization problem having an implicitly defined objective function. Special emphasize in the book is on problems having non-unique lower level optimal solutions, the optimistic (or weak) and the pessimistic (or strong) approaches are discussed. The book starts with the required results in parametric

nonlinear optimization. This is followed by the main theoretical results including necessary and sufficient optimality conditions and solution algorithms for bilevel problems. Stationarity conditions can be applied to the lower level problem to transform the optimistic bilevel programming problem into a one-level problem. Properties of the resulting problem are highlighted and its relation to the bilevel problem is investigated. Stability properties, numerical complexity, and problems having additional integrality conditions on the variables are also discussed. Audience: Applied mathematicians and economists working in optimization, operations research, and economic modelling. Students interested in optimization will also find this book useful.

2. Record Nr.

UNICAMPANIAVAN0255711

Autore

Szopiska-Mularz, Monika

Titolo

Adaptive Reuse for Urban Food Provision : Repurposing Inner-city Car Parking Structures for Controlled Environment Agriculture / Monika Szopiska-Mularz

Pubbl/distr/stampa

Cham, : Springer, 2022

Descrizione fisica

XXII, 170 p. : ill. ; 24 cm

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