

Hillier Lieberman Ricerca Operativa

Ricerca Operativa Ricerca Operativa Ricerca Operativa per l'Economia e l'impresa Integrated Evaluation for the Management of Contemporary Cities La Complessita' Funzionale Mathematical Programming and Its Economic Applications Matematica discreta. Dai fondamenti alle applicazioni National Union Catalog Algebra e teoria dei codici correttori Divertimento su temi di ricerca operativa National Union Catalog, 1982 Limiti e prospettive di sviluppo del trasporto ferroviario delle merci Programmazione ed analisi degli esperimenti nel marketing. Applicazione dei metodi statistici Ingegneria economica Business intelligence e knowledge management. Gestione delle informazioni e delle performances nell'era digitale Rendiconti del Seminario matematico della Università di Padova Il decision marketing e i sistemi decisionali multicriterio. Le metodologie AHP e ANP Rendiconti Il sistema d'impresa La Parola e il libro Paolo Serafini Silvano Martello Silvano Martello Giulio Mondini Giovanni Castellani Luigia Berardi Luigia Berardi Vito Ozzola Agostino Nuzzolo Amedeo De Luca Pietro D. Patrone Luca Quagini Università di Padova. Seminario matematico Domenico Falcone Università di Padova. Facoltà di scienze fisiche, matematiche e naturali. Seminario Matematico Sergio Sciarelli

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il volume tratta alcuni fra i temi più importanti della ricerca operativa traendo spunti da alcuni problemi reali di carattere gestionale e cercando di dare al lettore un metodo di modellizzazione e di risoluzione così da fornire quella professionalità che poi permetterà di risolvere casi reali abbastanza complessi a questo riguardo la programmazione lineare e la programmazione lineare intera svolgono nel testo un ruolo centrale come utensili principali del processo risolutivo i problemi proposti inizialmente presentati in forma semplice sono poi modellati in modo sempre più complesso gli strumenti analitici e informatici per progettare e risolvere i modelli vengono spiegati facendo riferimento ai problemi stessi

il volume nasce dai corsi di ricerca operativa e di ottimizzazione su reti tenuti dall'autore presso la scuola di ingegneria e architettura dell'università di Bologna ed include una raccolta di esercizi svolti in parte assegnati per la prova scritta d'esame ed in parte progettati per offrire una panoramica esauriente dei diversi casi che possono presentarsi nell'ambito degli argomenti trattati. I primi due capitoli presentano una introduzione generale alla disciplina alla programmazione matematica e alla programmazione convessa. I tre capitoli successivi sviluppano gli aspetti teorici della programmazione lineare: l'algoritmo del simplesso, la teoria della dualità e l'analisi di sensitività. Il sesto capitolo tratta i problemi di programmazione lineare intera: i piani di taglio e gli algoritmi branch and bound. Nel settimo capitolo viene introdotta la teoria dei grafi, vengono descritti gli algoritmi per la soluzione di alcuni problemi di particolare rilevanza e vengono esaminate le loro relazioni con la programmazione matematica. L'ottavo capitolo introduce i concetti fondamentali della teoria della complessità: gli algoritmi pseudo polinomiali e la programmazione dinamica. Nel nono e decimo capitolo vengono esaminate le strategie di esplorazione degli alberi decisionali, i metodi di rilassamento, le procedure di riduzione, gli algoritmi approssimati e i paradigmi metaeuristici. L'ultimo capitolo tratta i modelli di simulazione discreta utilizzando esempi relativi a sistemi nei quali svolge ruolo primario la gestione nel tempo di code e di entità tra loro interagenti. Per molti degli algoritmi trattati sono disponibili nella pagina web dell'autore applet didattici che ne consentono l'esecuzione passo passo. Il contenuto dell'intero volume è illustrato da circa 400 slide in inglese che possono essere liberamente scaricate dalla pagina web dell'autore.

Il volume riflette l'esperienza didattica degli autori che per molti anni hanno tenuto corsi di ricerca operativa per studenti delle facoltà di economia e di ingegneria. La principale caratteristica del testo è l'ampia copertura dei metodi tradizionali della disciplina e la loro presentazione in modo rigoroso ma senza un'impostazione fortemente matematica. Ogni metodo è accompagnato da esempi illustrativi descritti con ricchezza di dettagli. Una sezione è dedicata ad esercizi svolti. Dopo due capitoli di presentazione della materia e di introduzione alla programmazione matematica e alla programmazione convessa, i successivi tre capitoli sono dedicati alla programmazione lineare: l'algoritmo del simplesso, la dualità, l'analisi di sensitività. Il sesto capitolo riguarda le principali tecniche risolutive per la programmazione lineare intera: il metodo dei piani di taglio e branch and bound. Nel settimo capitolo viene introdotta la teoria dei grafi e vengono esaminati i principali problemi definiti su grafi: shortest path, spanning tree, cammini minimi, flusso massimo, problemi di routing. Il successivo capitolo è dedicato alla gestione di progetti, copre le tecniche CPM, PERT e il metodo per il trade-off tempi/costi. Nel nono capitolo vengono presentati i concetti di rilassamento e di algoritmo euristico. Gli ultimi due capitoli sono dedicati ad alcune fra le tecniche della ricerca operativa più utilizzate in pratica: la teoria delle code, modelli M/M/1 ed M/M/k e reti di Jackson, tecnica Monte Carlo e simulazione a eventi discreti. Per molti degli algoritmi trattati sono disponibili in una pagina web associata al testo applet didattici che ne consentono l'esecuzione guidata.

This book highlights a selection of the best papers presented at the 2016 IEEE conference. The laudato sì encyclical letter and valuation cities between conflict and solidarity decay.

and regeneration exclusion and participation which was held in rome italy in april 2016 and brought together experts from a diverse range of fields economics appraisal architecture energy urban planning sociology and the decision sciences and government representatives the book is divided into four parts human ecology values and paradigms integral ecology and natural resource management intergenerational equity and how to enhance dialogue and transparency in decision making processes cities are where 72 of all europeans live and this percentage is expected to rise to 80 by 2050 given this trend towards urbanization cities are continuously growing which also entails a growing risk of social segregation lack of security and mounting environmental problems all too often today s cities have to cope with social and environmental crises shifting the european urban agenda towards regeneration processes urban regeneration is more complex than merely renovating existing buildings as it also involves social and environmental problems inhabitants quality of life protecting tangible and intangible cultural resources innovation and business

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Introduction

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