RICERCA OPERATIVA

la ricerca operativa si è sviluppata durante la Seconda Guerra Mondiale principalmente per risolvere problemi di immagazzinaggio e rifornimenti alimentari per le truppe al fronte in seguito con il forte sviluppo dell'industria è diventato fondamentale pianificare l'attività produttiva per raggiungere obiettivi

è l'applicazione del metodo scientifico, da parte di gruppi interdisciplinari al fine di fornire soluzioni che meglio servano gli scopi dell'organizzazione nel suo insieme

fornisce gli elementi quantitativi di base necessari per le decisioni dei dirigenti

LE SUE FASI:

1. formulazione del problema
   l'azienda deve stabilire con precisione gli obiettivi da raggiungere
2. raccolta delle informazioni
   la raccolta delle informazioni deve essere la più ampia e dettagliata possibile le informazioni poi vanno esaminate ed elaborate
3. costruzione del modello matematico
   costituita da funzione obiettivo vincoli disegno e vincoli tecnici
4. studio del modello
5. controllo del modello e delle soluzioni ottenute
   Bisogna verificare se il modello teorico rappresenta la realtà in modo attendibile e valutare se la soluzione ottenuta è credibile e attuabile

CLASSIFICAZIONE DEI PROBLEMI DI SCELTA

- **problemi discreti e continui**
  - un problema è nel discreto se la variabile X può assumere solo valori interi e compresi in un intervallo
  - un problema è nel continuo se la variabile X può assumere tutti i valori interi e non compresi in un intervallo

- **problemi in condizioni di certezza o di incertezza**
  - un problema in condizioni di certezza in cui i dati sono sicuri e frutto di indagini precise
  - un problema è in condizioni di incertezza quando i dati sono legati ad eventi casuali che hanno una certa probabilità di verificarsi

- **problemi con effetti immediati o differiti**
  - un problema ha un effetto immediato se il tempo fra la decisione e la realizzazione non influisce sulle grandezze economiche in questione
  - un problema ha effetto differito se invece è rilevante il tempo fra una scelta e i suoi effetti come per esempio negli investimenti finanziari o industriali

PROBLEMI:

→ **scorte**

1) modello matematico

2) $y = \frac{Q}{x} \cdot CO \cdot \frac{x}{2} \cdot CM$

3) $x = \sqrt{\frac{Q \cdot CO}{\frac{CM}{2}}}$

Ricerca Operativa

E. Spedicato

Ricerca Operativa:

La teoria che non voleva morire Sharon Bertsch McGrayne,2022-03-08T00:00:00+01:00 46 11 Minimax Models in the Theory of Numerical Methods A. Sukharev,2012-12-06 In the Russian edition published in 1989 this book was called Minimax Algorithms in Problems of Numerical Analysis The new title is better related to the subject of the book and its style The basis for every decision or inference concerning the ways to solve a given problem is the computa tion model Thus the computation model is the epicenter of any structure studied in the book Algorithms are not constructed here they are rather derived from computation models Quality of an algorithm depends entirely on consistency of the model with the real life problem So constructing a model is an art deriving an algorithm is a science We study only minimax or in other words worst case computation models However one of the characteristic features of the book is a new approach to the notion of the worst case conditions in dynamic processes This approach leads to the concept of sequentially optimal algorithms which play the central role in the book In conclusion I would like to express my gratitude to Prof Dr Heinz J Skala and Dr Sergei A Orlovsky for encouraging translation of this book I also greatly appreciate the highly professional job of Dr Olga R Chuyan who translated the book Multicriteria Decision Making G. Leitmann,A. Marzollo,2014-05-04 **Algorithms for Continuous Optimization** E. Spedicato,2012-12-06 The NATO Advanced Study Institute on Algorithms for continuous optimiza tion the state of the art was held September 5 18 1993 at II Ciocco Barga Italy It was attended by 75 students among them many well known specialists in optimiza tion from the following countries Belgium Brasil Canada China Czech Republic France Germany Greece Hungary Italy Poland Portugal Rumania Spain Turkey UK USA Venezuela The lectures were given by 17 well known specialists in the field from Brasil China Germany Italy Portugal Russia Sweden UK USA Solving continuous optimization problems is a fundamental task in computational mathematics for applications in areas of engineering economics chemistry biology and so on Most real problems are nonlinear and can be of quite large size Devel oping efficient algorithms for continuous optimization has been an important field of research in the last 30 years with much additional impetus provided in the last decade by the availability of very fast and parallel computers Techniques like the simplex method that were already considered fully developed thirty years ago have been thoroughly revised and enormously improved The aim of this ASI was to present the state of the art in this field While not all important aspects could be covered in the fifty hours of lectures for instance multiob jective optimization had to be skipped we believe that most important topics were presented many of them by scientists who greatly contributed to their development **Luigi Moretti** Roberto Podda,2024-08-01 Luigi Moretti Lessons of SPAZIO focuses on the theoretical work of the Italian architect Luigi Moretti Rome 1906 1973 It does so selectively focusing on the editorials he published between 1950 and 1953 as editor in chief of the magazine SPAZIO as well as a further essay on parametric architecture published in 1971 1972 in the first issue of the magazine MOEBIUS directed by his friend Giulio Roisecco This book rediscovers Moretti s personal impact on international

architectural theory through thoughtful comments that shed light on the architect s modernity and original approach Although Moretti is an architect renowned for his projects and buildings his theoretical essays are less well known The aim of this book is therefore to explore Moretti s theoretical work which covers many topics including pictorial art sculpture architecture urban planning music cinema poetry mathematics computer science parametricity In addition to the translation from Italian to English the book contains reproductions of the original articles accompanied by a series of essays of critical commentary and updated interpretations that show new ways of approaching reading and understanding the foundations of current architectural theory and its progress over the last 50 years This book approaches Moretti s thought from a new perspective with the aim of reconsidering the originality of this brilliant and visionary architect who was intellectually ostracised for many years due to political and ideological contingencies even though he personified the ideal of the Renaissance man in modern times A re reading of Moretti s work is more justified today than has ever been before both to reconnect the threads with contemporaneity and to make his intensity and farsightedness of vision known to researchers teachers and students working in the areas of architecture and design theory technology and art today **Proceedings** ,1970 **Mathematical Programming and Its Economic Applications** Giovanni Castellani,Piera Mazzoleni,1981 *Operations Research* ,1960 Covers all aspects of OR including computing and decision technology environment energy and natural resources financial services logistics and supply chain operations manufacturing operations optimization public and military services simulation stochastic models telecommunications and transportation Methodos; revista trimestrale di metodologia e di logica simbolica ,1957 Numerical Techniques for Stochastic Systems Francesco Archetti,Marco Cugiani,1980 Gazzetta ufficiale della Repubblica italiana. Parte prima, serie generale ,1997 **New Serial Titles** ,1973 Bollettino della Unione matematica italiana Unione matematica italiana,1992 The Edition XII Guide Edition XII,1995 Over 500 profiles of Postgraduate Science Health Computer Sciences and Engineering courses A comprehensive reference section with details of over 10 000 Postgraduate Science and Engineering courses There is also practical editorial giving useful and essential advice and information Back cover **Proceedings of the Conference on Probability Theory** ,1971 **Italian Books and Periodicals** ,1963 **European Scientific Notes** ,1966 **Mathematics of Industrial Systems I** ,1995 *The National Union Catalog, Pre-1956 Imprints* ,1975 From Space to Place Stefano Campana,Maurizio Forte,2006 This conference at Rome in December 2006 promoted the use of integrated methodologies in remote sensing archaeology so as to help in the creation of new and sustainable policies in the monitoring interpretation fruition and communication of the cultural heritage Including 67 papers from 10 sessions

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