

The Three Body Problem 1 Liu Cixin

Integer Programming and Related Areas Integer Programming and Related Areas Integer Programming and Related Areas Integer Programming and Related Areas A Classified Bibliography 1976–1978 Proportional Optimization and Fairness Time-dependent and Vibration Problems Theory and Applications of Models of Computation Problems in Comparative Chinese Dialectology Problems of Communism Just-in-Time Scheduling The Nine Chapters on the Mathematical Art Integrating meta-heuristics and a Sarsa algorithm for disassembly scheduling problems with cycle time and hazard coefficients Frontiers in Algorithmics and Algorithmic Aspects in Information and Management Proceedings of The Eighth International Conference on Bio-Inspired Computing: Theories and Applications (BIC-TA), 2013 Hyperbolic Problems: Theory, Numerics, Applications. Volume I Combinatorial Optimization and Applications Healthcare Staff Scheduling Artificial Evolution Fuzzy Information and Engineering and Decision Shape Optimization And Optimal Design Rabe v. Randow R.v. Randow C. Kastning D. Hausmann Wieslaw Kubiak Carlos A. Brebbia Jianer Chen David Prager Branner Joanna Jozefowska Kangshen Shen Dachao Li Jack Snoeyink Zhixiang Yin Carlos Parés Ding-Zhu Du Michael Mutingi Lhassane Idoumghar Bing-Yuan Cao John Cagnol Integer Programming and Related Areas Integer Programming and Related Areas Integer Programming and Related Areas Integer Programming and Related Areas A Classified Bibliography 1976–1978 Proportional Optimization and Fairness Time-dependent and Vibration Problems Theory and Applications of Models of Computation Problems in Comparative Chinese Dialectology Problems of Communism Just-in-Time Scheduling The Nine Chapters on the Mathematical Art Integrating meta-heuristics and a Sarsa algorithm for disassembly scheduling problems with cycle time and hazard coefficients Frontiers in Algorithmics and Algorithmic Aspects in Information and Management Proceedings of The Eighth International Conference on Bio-Inspired Computing: Theories and Applications (BIC-TA), 2013 Hyperbolic Problems: Theory, Numerics, Applications. Volume I Combinatorial Optimization and Applications Healthcare Staff Scheduling Artificial Evolution Fuzzy Information and Engineering and Decision Shape Optimization And Optimal Design Rabe v. Randow R.v. Randow C. Kastning D. Hausmann Wieslaw Kubiak Carlos A. Brebbia Jianer Chen David Prager Branner Joanna Jozefowska Kangshen Shen Dachao Li Jack Snoeyink Zhixiang Yin Carlos Parés Ding-Zhu Du Michael Mutingi Lhassane Idoumghar Bing-Yuan Cao John Cagnol

the fields of integer programming and combinatorial optimization continue to be areas of great vitality with an ever increasing number of publications and journals appearing a classified bibliography thus continues to be necessary and useful today even more so than it did when the project of which this is the fifth volume was started in 1970 in the institut fur okonometrie und operations research of the university of bonn the pioneering first volume was compiled by claus kastning during the years 1970 1975 and appeared in 1976 as volume 128 of the series lecture notes in economics and mathematical systems published by the springer verlag work on the project was continued by dirk hausmann reinhardt euler and rabe von randow and resulted in the publication of the second third and fourth volumes in 1978 1982 and 1985 volumes 160 197 and 243 of the above series the present book constitutes the fifth volume of the bibliography and covers the period from autumn 1984 to the end of 1987 it contains 5864 new publications by 4480 authors and was compiled by rabe von randow its form is practically identical to that of the first four volumes some additions having been made to the subject list

integer programming is one of the most fascinating and difficult areas in the field of mathematical optimization due to this fact notable research contributions to integer programming have been made in very different branches of mathematics and its applications since these publications are scattered over many journals proceedings volumes monographs and working papers a comprehensive bibliography of all these sources is a helpful tool even for specialists in this field i initiated this compilation of literature in 1970 at the institut fur konometrie und operations research university of bonn since then many collaborators have contributed to and worked on it among them dipl math claus kastning has done the bulk of the work with great perseverance and diligence he has gathered all the material and checked it with the original sources the main aim was to incorporate rare and not easily accessible sources like russian journals preprints or unpublished papers without the invaluable and dedicated engagement of claus kastning the bibliography would never have reached this final version for this reason he must be considered its responsible editor as with any other collection this literature list has a subjective viewpoint and may be in some sense incomplete we have however tried to be as complete as possible the bibliography contains 4704 different publications by 6767 authors which were classified by 11839 descriptor entries

proportional optimization and fairness is a long needed attempt to reconcile optimization with apportionment in just in time jit sequences and find the common ground in solving problems ranging from sequencing mixed model just in time assembly lines through just in time batch production balancing workloads in event graphs to bandwidth allocation internet gateways and resource allocation in computer operating systems the book argues that apportionment theory and optimization based on

deviation functions provide natural benchmarks for a process and then looks at the recent research and developments in the field individual chapters look at the theory of apportionment and just in time sequences minimization of just in time sequence deviation optimality of cyclic sequences and the oneness bottleneck minimization competition free instances fraenkel's conjecture and optimal admission sequences response time variability applications to the liu layland problem and pinwheel scheduling temporal capacity constraints and supply chain balancing fair queuing and stride scheduling and smoothing and batching

this series has been developed in response to the interest shown in boundary elements by scientists and engineers whilst volume 1 was dedicated to basic principles and applications this book is concerned with the state of the art in the solution of time dependent problems since papers have recently been published on this important topic it is time to produce a work of a more permanent nature the volume begins with a chapter on the fundamentals of boundary integral equation methods in elastodynamics after reviewing the basic equations of elastodynamics the wave equation and dynamic reciprocal theorems are stated and the direct and indirect boundary element formulations are presented eigenvalue problems are discussed together with the case of the fourier transformations several applications illustrate the effectiveness of the technique for engineering chapter 2 examines some of the various boundary integral equation formulations available for elastodynamic problems in particular the displacement traction formulation is compared with the displacement potential case the special characteristics of the elastodynamics fundamental solutions are discussed in detail and a critical comparison with the elastostatics case is presented while the chapter is not meant to be a complete review of the work in the field the original presentation of the problem and the suggestions for further work make an important contribution to the development of the method

this book constitutes the refereed proceedings of the 6th international conference on theory and applications of models of computation tamc 2009 held in changsha china in may 2009 the 39 full papers presented together with 7 invited papers as well as 3 plenary talks were selected from 86 submissions the papers address the three main themes of the conference which were computability complexity and algorithms the conference aimed to bring together researchers with interests in theoretical computer science algorithmic mathematics and applications to the physical sciences

this book discusses the methodology of systematic chinese dialect classification with particular attention to the conservative

miin and hakka groups spoken in southern china the primary linguistic methodology employed is the historical comparative method and the dialects chosen as examples of classification are those spoken in and around the township of wann an in western fukien s longyan country the book features extensive comparative tables of dialect forms and a two hundred page appendix outlining the diasystem of the four principal wann an dialects

as supply chain management has matured maintaining the precise flow of goods to manage schedules and minimize inventories on a just in time basis still presents major challenges this has inspired an array of models and algorithms to help ensure the precise flow of components and final products into inventories to meet just in time requirements this is the first survey of the theoretical work on computer systems models and algorithms utilized in just in time scheduling

the nine chapters on the mathematical art is a classic text the most important mathematical source in china during the past 2000 years and comparable in significance to euclid s elements in the west this volume contains the first complete english translation of the nine chapters together with two commentaries written in the 3rd and 7th centuries ad and a further commentary by the translators the nine chapters contains 246 problems and their solutions which fall into nine categories that are firmly based on practical needs there are methods for solving problems in areas such as land measurement construction agriculture commerce and taxation the chinese commentators provided the algorithms needed to solve the problems and explanations of how the algorithms work the translators commentary provides clear and accessible background material for the western reader explanations of technicalities and notes on the treatment of similar or identical mathematical problems in other countries the nine chapters quickly acquired a distinguished reputation and was the standard mathematics textbook in china and the surrounding regions until western science was introduced in about 1600 this english translation gives the reader an idea of the distinctive style and important contributions of traditional chinese mathematics

end of life products recycling can reduce the waste of resources and disassembly line scheduling planning can effectively improve the recycling efficiency and reduce the pollution of the environment this work addresses a bi objective disassembly line scheduling problem with considering time interference between tasks the weighted sum of the cycle time and hazard coefficients is optimized first a mathematical model of the disassembly line scheduling problem is established under the constraints of priority and time interference relationships second four meta heuristics are improved to solve the concerned problems including particle swarm optimization artificial bee colony genetic algorithm and variable neighborhood search ten

objective oriented local search operations are designed for improving meta heuristics performance a reinforcement learning algorithm sarsa is employed to guide task assignment among workstations and local search selection during iterations respectively finally experiments are carried out for 10 instances with different scales the effectiveness of the improving strategies is verified the meta heuristics combined with sarsa based task assignment and local search strategies has better robustness and stability than the classical ones comparisons and discussions show that the particle swarm optimization with improved strategies outperforms other algorithms

this book constitutes the refereed proceedings of the 6th international frontiers of algorithmics workshop faw 2012 and the 8th international conference on algorithmic aspects in information and management aaim 2012 jointly held in beijing china in may 2012 the 33 revised full papers presented together with 4 invited talks were carefully reviewed and selected from 81 submissions the papers are organized in topical sections on algorithms and data structures algorithmic game theory and incentive analysis biomedical imaging algorithms communication networks and optimization computational learning theory knowledge discovery and data mining experimental algorithmic methodologies optimization algorithms in economic and operations research pattern recognition algorithms and trustworthy algorithms and trustworthy software

international conference on bio inspired computing theories and applications bic ta is one of the flagship conferences on bio computing bringing together the world s leading scientists from different areas of natural computing since 2006 the conferences have taken place at wuhan 2006 zhengzhou 2007 adelaide 2008 beijing 2009 liverpool changsha 2010 malaysia 2011 and india 2012 following the successes of previous events the 8th conference is organized and hosted by anhui university of science and technology in china this conference aims to provide a high level international forum that researchers with different backgrounds and who are working in the related areas can use to present their latest results and exchange ideas additionally the growing trend in emergent systems has resulted in the inclusion of two other closely related fields in the bic ta 2013 event namely complex systems and computational neuroscience these proceedings are intended for researchers in the fields of membrane computing evolutionary computing and genetic algorithms dna and molecular computing biological computing swarm intelligence autonomy oriented computing cellular and molecular automata complex systems etc professor zhixiang yin is the dean of the school of science anhui university of science technology china professor linqiang pan is the head of the research group of natural computing at huazhong university of science and technology wuhan china professor xianwen fang also works at the anhui university of science technology

the present volume contains a selection of papers from the xviii international conference on hyperbolic problems theory numerics and applications hyp2022 which was held on june 20 24 2022 in málaga spain the goal of this series of conferences is to bring together scientists with interests in the theoretical applied and computational aspects of hyperbolic partial differential equations systems of hyperbolic conservation laws wave equations etc and of related mathematical models the chapters in this volume correspond to some of the plenary lectures and to selected contributions related to theoretical aspects

this book constitutes the refereed proceedings of the 15th annual international conference on combinatorial optimization and applications cocoa 2021 which took place in tianjin china during december 17 19 2021 the 55 papers presented in this volume were carefully reviewed and selected from 122 submissions they deal with combinatorial optimization and its applications in general focusing on algorithms design theoretical and experimental analysis and applied research of general algorithmic interest

healthcare operations in hospitals and home healthcare settings are inundated with complex fuzzy features that impose difficulties in the creation of work schedules this book presents in depth research on emerging approaches to healthcare staff scheduling it starts by reviewing the key issues and challenges inherent in staff scheduling along with the basic concepts of fuzzy set theory examining cutting edge research applications it details fuzzy optimization algorithms derived from biologically inspired approaches and fuzzy theory facilitating a practical and in depth understanding of modern fuzzy metaheuristic optimization approaches the book presents recent research on multi criteria algorithms and their applications in healthcare operations particularly staff scheduling

this book constitutes the thoroughly refereed post conference proceedings of the 14th international conference on artificial evolution ea 2019 held in mulhouse france in october 2019 the 16 revised papers were carefully reviewed and selected from 33 submissions the papers cover a wide range of topics in the field of artificial evolution such as evolutionary computation evolutionary optimization co evolution artificial life population dynamics theory algorithmic and modeling implementations application of evolutionary paradigms to the real world industry biosciences other biologically inspired paradigms swarm artificial ants artificial immune systems cultural algorithms memetic algorithms multi objective optimization constraint handling parallel algorithms dynamic optimization machine learning and hybridization with other soft computing techniques

this book introduces applications of mathematics and fuzzy mathematics in decision science fuzzy geometric programming and fuzzy optimization as well as operations research and management based on 44 research papers presented at three successful conferences 1 the international conference on mathematics and decision science icmds september 12 15 2016 guangzhou university guangzhou china icodm2020 com 2 academic conference on 30th anniversary of fuzzy geometric programming advanced by professor cao bingyuan and his 40 education years acfgpace july 30 to august 1 2016 guangzhou university guangzhou china 3 the third annual meeting of guangdong operational research society tamgors october 22 23 2016 foshan university guangdong china the book is a valuable resource for students graduates teachers and other professionals in the field of applied mathematics artificial intelligence and computers fuzzy systems and decision making as well as operations research and management

this volume presents developments and advances in modelling passive and active control systems governed by partial differential equations it emphasizes shape analysis optimal shape design controllability nonlinear boundary control and stabilization the authors include essential data on exact boundary controllability of thermoelastic plates with variable transmission coefficients

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