

Horizon Fitness T1

Metaheuristics for Dynamic OptimizationCosmologyNonlinearity, Bifurcation and ChaosMaintenance for Industrial SystemsMulti-Agent-Based Simulation XIVGECCO-2001Behavioural Ecology of FishesInverse Problems, Design and Optimization - vol. 1Operations research models for scheduling railway infrastructure maintenanceAdvances in Evolutionary ComputingGenetic ProgrammingMetaheuristics for Scheduling in Industrial and Manufacturing ApplicationsAlternative and Complementary Methods for the Control of Infectious Diseases in AnimalsArtificial Intelligence in MedicineIntelligent Agent TechnologyInformation—Consciousness—RealityJournal of Sports Medicine and Physical FitnessNew Trends and Applications of Computer-aided Material and EngineeringDiscrete Mathematics and SymmetryParasites in Social Insects Enrique Alba Edward Harrison Jan Awrejcewicz Riccardo Manzini Shah Jamal Alam Lee Spector Felicity Anne Huntingford Gabriella Budai-Balke Ashish Ghosh James McDermott Fatos Xhafa Lyndy Joy McGaw Joseph Finkelstein Ning Zhong James B. Glattfelder Wen Ya Tian Angel Garrido Paul Schmid-Hempel

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this book is an updated effort in summarizing the trending topics and new hot research lines in solving dynamic problems using metaheuristics an analysis of the present state in solving complex problems quickly draws a clear picture problems that change in time having noise and uncertainties in their definition are becoming very important the tools to face these problems are still to be built since existing techniques are either slow or inefficient in tracking the many global optima that those problems are presenting to the solver technique thus this book is devoted to include several of the most important advances in solving dynamic problems metaheuristics are the more popular tools to this end and then we can find in the book how to best use genetic algorithms particle swarm ant colonies immune systems variable neighborhood search and many other bioinspired techniques also neural network solutions are considered in this book both theory and practice have been addressed in the chapters of the book mathematical background and methodological tools in solving this new class of problems and applications are included from the applications point of view not just academic benchmarks are dealt with but also real world applications in logistics and bioinformatics are discussed here the book then covers theory and practice as well as discrete versus continuous dynamic optimization in the aim of creating a fresh and comprehensive volume this book is targeted to either beginners and experienced practitioners in dynamic optimization since we took care of devising the chapters in a way that a wide audience could profit from its contents we hope to offer a single source for up to date information in dynamic optimization an inspiring and attractive new research domain that appeared in these last years and is here to stay

cosmology the science of the universe is an introduction to past and present cosmological theory for much of the world s history cosmological thought was formulated in religious or philosophical language and was thus theological or metaphysical in nature however cosmological speculation and theory has now become a science in which the empirical discoveries of the astronomer theoretical physicist and biologist are woven into intricate models that attempt to account for the universe as a whole professor harrison draws on the discoveries and speculations of these scientists to provide a comprehensive survey of man s current understanding of the universe and its history tracing the rise of the scientific method the major aim of this book is to provide an elementary understanding of the physical universe of modern times thoroughly revised and updated this second edition extends the

much acclaimed first edition taking into account the many developments that have occurred

nonlinearity bifurcation and chaos theory and application is an edited book focused on introducing both theoretical and application oriented approaches in science and engineering it contains 12 chapters and is recommended for university teachers scientists researchers engineers as well as graduate and post graduate students either working or interested in the field of nonlinearity bifurcation and chaos

new global and extended markets are forcing companies to process and manage increasingly differentiated products with shorter life cycles low volumes and reduced customer delivery times in today's global marketplace production systems need to be able to deliver products on time maintain market credibility and introduce new products and services faster than competitors as a result a new production paradigm of a production system has been developed and a supporting management decision making approach simultaneously incorporating design management and control of the production system is necessary so that this challenge can be effectively and efficiency met maintenance engineering and its applications in production systems meets this need by introducing an original and integrated idea of maintenance maintenance for productivity the volume starts with the introduction and discussion of a new conceptual framework based on productivity quality and safety supported by maintenance subsequent chapters illustrate the most relevant models and methods to plan organise implement and control the whole maintenance process reliability evaluation models and prediction maintenance strategies and policies spare parts management computer maintenance management software cmms and total productive maintenance tpm etc several examples of problems supported by solutions and real applications to help and test the reader's comprehension are included maintenance engineering and its applications in production systems will certainly be valuable to engineering students doctoral and post doctoral students and also to maintenance practitioners as well as managers of industrial and service companies

this book constitutes the thoroughly refereed post conference proceedings of the 14th international workshop on multi agent based simulation mabs 2013 held in saint paul minnesota usa in may 2013 the workshop was held in conjunction with twelfth international conference on autonomous agents and multiagent systems aamas 2013 the 11 revised full papers included in this volume were

carefully selected from 29 submissions the papers are organized in topical sections on mabs for real time and online data formal approaches in mabs design and validation mabs in environmental modeling simulating social phenomena

this discipline of behavioural ecology has reached a turning point empirical evidence in behavioural ecology has led to the reformulation of the classic explanatory theories and new areas of interest have opened up the study of fish provides an excellent model of the subject allowing a concise but complete treatment of the field this book is based on papers from the proceedings of a conference held at the ettore majorana centre erice italy provides an overview of the key developments in behavioural ecology four main areas of interest are covered the behavioural ecology of predator avoidance foraging resource defence and life histories and reproduction

this thesis can be divided into two parts in part i we are dealing with the problem of finding optimal time intervals for carrying out routine maintenance works and large projects in such a way that the track possession costs and maintenance costs are minimized in part ii of this thesis we focus on rescheduling of the rolling stock in the passenger railways due to changing circumstances and more precisely on the rolling stock rebalancing problem rsrp the main objectives of this thesis are formulated as follows 1 review the existing literature on maintenance planning in relation with production 2 identify some tactical and operational railway infrastructure maintenance planning problems and develop operations research models for providing decision support investigate the effect of planning railway infrastructure maintenance on the train operation and identify rolling stock planning problems that occur during planned infrastructure maintenance 3 analyze the considered models investigate their computational complexity propose solution methods and test the solutions of the models

this book provides a collection of forty articles containing new material on both theoretical aspects of evolutionary computing ec and demonstrating the usefulness success of it for various kinds of large scale real world problems around 23 articles deal with various theoretical aspects of ec and 17 articles demonstrate the success of ec methodologies these articles are written by leading experts of the field from different countries all over the world

this book constitutes the refereed proceedings of the 20th european conference on genetic programming eurogp 2017 held in amsterdam the netherlands in april 2017 co located with the evo 2017 events evocop evomusart and evoapplications the 14 revised full papers presented together with 8 poster papers were carefully reviewed and selected from 32 submissions the wide range of topics in this volume reflects the current state of research in the field thus we see topics and applications including program synthesis genetic improvement grammatical representations self adaptation multi objective optimisation program semantics search landscapes mathematical programming games operations research networks evolvable hardware and program synthesis benchmarks

during the past decades scheduling has been among the most studied optimization problems and it is still an active area of research scheduling appears in many areas of science engineering and industry and takes different forms depending on the restrictions and optimization criteria of the operating environments for instance in optimization and computer science scheduling has been defined as the allocation of tasks to resources over time in order to achieve optimality in one or more objective criteria in an efficient way and in production as production schedule i.e. the planning of the production or the sequence of operations according to which jobs pass through machines and is optimal with respect to certain optimization criteria although there is a standardized form of stating any scheduling problem namely efficient allocation of n jobs on m machines which can process no more than one activity at a time with the objective to optimize some objective function of the job completion times scheduling is in fact a family of problems indeed several parameters intervene in the problem definition a job characteristics preemptive or not precedence constraints release dates etc b resource environment single vs parallel machines unrelated machines identical or uniform machines etc c optimization criteria minimize total tardiness the number of late jobs makespan flowtime etc maximize resource utilization etc and d scheduling environment static vs dynamic in the former the number of jobs to be considered and their ready times are available while in the latter the number of jobs and their characteristics change over time

this two volume set Inai 14844 14845 constitutes the refereed proceedings of the 22nd international conference on artificial intelligence in medicine aime 2024 held in salt lake city ut usa during july 9 12 2024 the 54 full papers and 22 short papers presented in the book were carefully reviewed and selected from 335 submissions the papers are grouped in the following topical sections part i predictive modelling and disease risk prediction natural language processing bioinformatics and omics and wearable devices sensors and

robotics part ii medical imaging analysis data integration and multimodal analysis and explainable ai

this volume is an attempt to capture the essence of the state of the art of intelligent agent technology and to identify the new challenges and opportunities that it is or will be facing the most important feature of the volume is that it emphasizes a multi faceted holistic view of this emerging technology from its computational foundations oco in terms of models methodologies and tools for developing a variety of embodiments of agent based systems oco to its practical impact on tackling real world problems contents formal agent theories computational architecture and infrastructure learning and adaptation knowledge discovery and data mining agents distributed intelligence agent based applications readership graduate students in computer science and engineering academics lecturers researchers software systems engineers it engineers and industrialists

this open access book chronicles the rise of a new scientific paradigm offering novel insights into the age old enigmas of existence over 300 years ago the human mind discovered the machine code of reality mathematics by utilizing abstract thought systems humans began to decode the workings of the cosmos from this understanding the current scientific paradigm emerged ultimately discovering the gift of technology today however our island of knowledge is surrounded by ever longer shores of ignorance science appears to have hit a dead end when confronted with the nature of reality and consciousness in this fascinating and accessible volume james glattfelder explores a radical paradigm shift uncovering the ontology of reality it is found to be information theoretic and participatory yielding a computational and programmable universe

includes fims official bulletin of federation internationale de medecine sportive

selected peer reviewed papers from the 2011 international conference on computer aided material and engineering iccme 2011 march 9 11 2011 hangzhou china

some of the most beautiful studies in mathematics are related to symmetry and geometry for this reason we select here some contributions about such aspects and discrete geometry as we know symmetry in a system means invariance of its elements under

conditions of transformations when we consider network structures symmetry means invariance of adjacency of nodes under the permutations of node set the graph isomorphism is an equivalence relation on the set of graphs therefore it partitions the class of all graphs into equivalence classes the underlying idea of isomorphism is that some objects have the same structure if we omit the individual character of their components a set of graphs isomorphic to each other is denominated as an isomorphism class of graphs the automorphism of a graph will be an isomorphism from g onto itself the family of all automorphisms of a graph g is a permutation group

this book analyzes for the first time how parasites shape the biology of social insects the ants wasps bees and termites paul schmid hempel provides an overview of the existing knowledge of parasites in social insects current ideas are evaluated using a broad database and the role of parasites for the evolution and maintenance of the social organization and biology of insects is carefully scrutinized in addition the author develops new insights especially in his examination of the intricate relationships between parasites and their social hosts through the rigorous use of evolutionary and ecological concepts schmid hempel identifies gaps in our knowledge about parasites in social insects and uses models to develop new questions for future research in addition issues that are usually considered separately such as division of labor genetics immunology and epidemiology are placed in a common framework to analyze two of the most successful adaptations of life parasitism and sociality this work will appeal not only to practitioners in the fields of behavioral ecology and sociobiology but also to others interested in host parasite relationships or in social organisms such as apiculturists struggling to overcome the problems arising from mite infestations of honeybee colonies

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