Best Route Optimizer

Kenneth R. Baker

IPython Interactive Computing and Visualization Cookbook Cyrille Rossant,2014-09-25 Intended to anyone interested in numerical computing and data science: students, researchers, teachers, engineers, analysts, hobbyists... Basic knowledge of Python/NumPy is recommended. Some skills in mathematics will help you understand the theory behind the computational methods.

World Cruising Routes Jimmy Cornell,2014-01-01 A guide to nearly 1,000 sailing routes covering all the oceans of the world, geared specifically to the needs of cruising sailors. It advises on the winds, currents, regional and seasonal weather, and optimum times for individual routes, plus over 6,000 waypoints.

Advances in Mobility-as-a-Service Systems Eftihia G. Nathanail,Giannis Adamos,Ioannis Karakikes,2020-11-03 This book gathers together innovative research and practical findings relating to urban mobility transformation. It is especially intended to provide academicians, researchers, practitioners and decision makers with effective strategies and techniques that can support urban mobility in a sustainable way. The chapters, which report on contributions presented at the 5th Conference on Sustainable Urban Mobility, held virtually on June 17-19, 2020, from Greece, cover the thematic areas of: social networks and traveler behavior; applications of technologies in transportation and big data analytics; transport infrastructure and traffic management; and transportation modeling and impact assessment. Special attention is given to public transport and demand responsive systems, electromobility, micromobility and automated vehicles. The book addresses the challenges of the near future, highlighting the importance of knowledge transfer, and it is intended to foster communication among universities, industries and public administration.

Evaluation of a Dispatcher's Route Optimization Decision Aid to Avoid Aviation Weather

Hazards ,2003

    <u>Route and Operating Optimization of Maritime Vessels Using Machine Learning Techniques</u> Mohammad Hossein Moradi,2024-02-02 The shipping industry handles over 90% of the global trade volume and is responsible for approximately 3% of global CO_2 emissions. Meanwhile, trade by the shipping industry is expected to increase by up to 130% by 2050 compared to 2008. At the same time, the goal is to reduce Green House Gas (GHG) emissions from the shipping industry to half of the 2008 level by 2050. In support of this goal, this thesis is concerned with a comprehensive approach for optimizing the ship's operation, i.e., an optimization approach that simultaneously involves route selection, energy management, propeller pitch, and engine control. In addition, this thesis also analyses the application of wind propulsion systems. The optimization of the ship's operation is implemented in the form of Reinforcement Learning (RL) methods. The use of RL-based methods to simultaneously optimize various aspects of the ship's trajectory and controls is a novel approach compared to the current state-of-art and embodies this thesis' inherent innovation. The results specifically highlight the importance of parallelizing route optimization with the optimization of other control aspects. Ultimately, it is found that the solution emanating from a purely RL-based approach can be further enhanced when the optimized route, speed, and power profiles are used to perform individual DP-based optimizations on the energy management in a post-processing step.

    Applied Genetic Algorithm and Its Variants Nilanjan Dey,2023-07-01 This book provides fundamental concepts related to various types of genetic algorithms and practical applications in various domains such as medical imaging, manufacturing, and engineering design. The book discusses genetic algorithms which are used to solve a variety of optimization problems. The genetic algorithms are demonstrated to offer reliable search in complex spaces. The book presents high-

quality research work by academics and researchers which is useful for young researchers and students.

Route Planner for Running Daily Planner And Journal,2020 You can use walking route planner to map out the best walking routeRunning Plandaily workoutfood and drink logImportants notesMonthly goalsdaily exerciseWeekly runing planWeekly Running Schedule

New Technologies, Artificial Intelligence and Smart Data Mohamed Tabaa,Hassan Badir,Ladjel Bellatreche,Azedine Boulmakoul,Ahmed Lbath,Fabrice Monteiro,2023-11-20 This volume constitutes selected papers presented at the 10th International Conference on Innovation and New Trends in Information Technology, INTIS 2022, held in Casablanca, Morocco, in May 2022, and 11th International Conference on Innovation and New Trends in Information Technology, INTIS 2023, held in Tangier, Morocco, in May 2023. After the thorough peer review process, 4 papers were selected from the 27 submissions received for INTIS 2022, and 11 papers were selected from the 33 submissions received for INTIS 2023. The presented papers cover the mail topics of data-enabled systems/applications: data source layer, network layer, data layer, learning layer, and reporting layers while considering non-functional properties such as data privacy, security, and ethics.

Optimization Methods in Logistics Kaveh Sheibani,2014-06-30 Operations Research and Logistics are strongly connected: most of the theoretical developments of the former have been motivated by applications in the latter. The spirit of this special issue on Optimization Methods in Logistics moves along the same line, with methodological approaches presented to respond to the needs of practitioners. Applications emerging in different branches of the wide field of logistics have been addressed by authors from Belgium, Brazil, Singapore, Spain, Switzerland, Thailand and the USA.

Advances in Distributed Computing and Machine Learning Jyoti Prakash Sahoo,Asis Kumar Tripathy,Manoranjan Mohanty,Kuan-Ching Li,Ajit Kumar Nayak,2022-01-01 This book presents recent advances in the field of scalable distributed computing including state-of-the-art research in the field of Cloud Computing, the Internet of Things (IoT), and Blockchain in distributed environments along with applications and findings in broad areas including Data Analytics, AI, and Machine Learning to address complex real-world problems. It features selected high-quality research papers from the 2nd International Conference on Advances in Distributed Computing and Machine Learning (ICADCML 2021), organized by the Department of Computer Science and Information Technology, Institute of Technical Education and Research(ITER), Siksha 'O' Anusandhan (Deemed to be University), Bhubaneswar, India.

Energy Harvesting Deepti Agarwal,Kimmi Verma,Shabana Urooj,2022-09-28 Energy Harvesting: Enabling IoT Transformations gives insight into the emergence of energy harvesting technology and its integration with IoT-based applications. The book educates the reader on how energy is harvested from different sources, increasing the effectiveness, efficiency and lifetime of IoT devices. • Discusses the technology and practices involved in energy harvesting for biomedical, agriculture and automobile industries • Compares the performance of IoT-based devices with and without energy harvesting for different applications • Studies the challenges and issues in the implementation of EH-IoT • Includes case studies on energy-harvesting approach for solar, thermal and RF sources • Analyzes the market and business opportunities for entrepreneurs in the field of EH-IoT. This book is primarily aimed at graduates and research scholars in wireless sensor networks. Scientists and R&D workers in industry will also find this book useful.

Computational Intelligence Paradigms for Optimization Problems Using

MATLAB®/SIMULINK® S. Sumathi,L. Ashok Kumar,Surekha. P,2018-09-03 Considered one of the most innovative research directions, computational intelligence (CI) embraces techniques that use global search optimization, machine learning, approximate reasoning, and connectionist systems to develop efficient, robust, and easy-to-use solutions amidst multiple decision variables, complex constraints, and tumultuous environments. CI techniques involve a combination of learning, adaptation, and evolution used for intelligent applications. Computational Intelligence Paradigms for Optimization Problems Using MATLAB®/ Simulink® explores the performance of CI in terms of knowledge representation, adaptability, optimality, and processing speed for different real-world optimization problems. Focusing on the practical implementation of CI techniques, this book: Discusses the role of CI paradigms in engineering applications such as unit commitment and economic load dispatch, harmonic reduction, load frequency control and automatic voltage regulation, job shop scheduling, multidepot vehicle routing, and digital image watermarking Explains the impact of CI on power systems, control systems, industrial automation, and image processing through the above-mentioned applications Shows how to apply CI algorithms to constraint-based optimization problems using MATLAB® m-files and Simulink® models Includes experimental analyses and results of test systems Computational Intelligence Paradigms for Optimization Problems Using MATLAB®/ Simulink® provides a valuable reference for industry professionals and advanced undergraduate, postgraduate, and research students.

   Optimization Modeling with Spreadsheets Kenneth R. Baker,2015-06-15 An accessible introduction to optimization analysis using spreadsheets Updated and revised, Optimization Modeling with Spreadsheets, Third Edition emphasizes model building skills in optimization analysis. By emphasizing both spreadsheet modeling and optimization tools in the freely available Microsoft®

Office Excel® Solver, the book illustrates how to find solutions to real-world optimization problems without needing additional specialized software. The Third Edition includes many practical applications of optimization models as well as a systematic framework that illuminates the common structures found in many successful models. With focused coverage on linear programming, nonlinear programming, integer programming, and heuristic programming, Optimization Modeling with Spreadsheets, Third Edition features: An emphasis on model building using Excel Solver as well as appendices with additional instructions on more advanced packages such as Analytic Solver Platform and OpenSolver Additional space devoted to formulation principles and model building as opposed to algorithms New end-of-chapter homework exercises specifically for novice model builders Presentation of the Sensitivity Toolkit for sensitivity analysis with Excel Solver Classification of problem types to help readers see the broader possibilities for application Specific chapters devoted to network models and data envelopment analysis A companion website with interactive spreadsheets and supplementary homework exercises for additional practice Optimization Modeling with Spreadsheets, Third Edition is an excellent textbook for upper-undergraduate and graduate-level courses that include deterministic models, optimization, spreadsheet modeling, quantitative methods, engineering management, engineering modeling, operations research, and management science. The book is an ideal reference for readers wishing to advance their knowledge of Excel and modeling and is also a useful guide for MBA students and modeling practitioners in business and non-profit sectors interested in spreadsheet optimization.

Optimization in Industry Shubhabrata Datta,J. Paulo Davim,2018-11-03 This book describes different approaches for solving industrial problems like product design, process optimization, quality enhancement, productivity improvement and cost minimization. Several optimization

techniques are described. The book covers case studies on the applications of classical as well as evolutionary and swarm optimization tools for solving industrial issues. The content is very helpful for industry personnel, particularly engineers from the Operation, R&D and Quality Assurance sectors, and also the academic researchers of different engineering and/or business administration background.

Advances in Bio-inspired Computing for Combinatorial Optimization Problems Camelia-Mihaela Pintea,2013-08-13 Advances in Bio-inspired Combinatorial Optimization Problems illustrates several recent bio-inspired efficient algorithms for solving NP-hard problems. Theoretical bio-inspired concepts and models, in particular for agents, ants and virtual robots are described. Large-scale optimization problems, for example: the Generalized Traveling Salesman Problem and the Railway Traveling Salesman Problem, are solved and their results are discussed. Some of the main concepts and models described in this book are: inner rule to guide ant search - a recent model in ant optimization, heterogeneous sensitive ants; virtual sensitive robots; ant-based techniques for static and dynamic routing problems; stigmergic collaborative agents and learning sensitive agents. This monograph is useful for researchers, students and all people interested in the recent natural computing frameworks. The reader is presumed to have knowledge of combinatorial optimization, graph theory, algorithms and programming. The book should furthermore allow readers to acquire ideas, concepts and models to use and develop new software for solving complex real-life problems.

Optimization and Decision Science: Methodologies and Applications Antonio Sforza,Claudio Sterle,2017-11-03 This proceedings volume highlights the state-of-the-art knowledge related to optimization, decisions science and problem solving methods, as well as their application in industrial and territorial systems. It includes contributions tackling these themes using models and

methods based on continuous and discrete optimization, network optimization, simulation and system dynamics, heuristics, metaheuristics, artificial intelligence, analytics, and also multiple-criteria decision making. The number and the increasing size of the problems arising in real life require mathematical models and solution methods adequate to their complexity. There has also been increasing research interest in Big Data and related challenges. These challenges can be recognized in many fields and systems which have a significant impact on our way of living: design, management and control of industrial production of goods and services; transportation planning and traffic management in urban and regional areas; energy production and exploitation; natural resources and environment protection; homeland security and critical infrastructure protection; development of advanced information and communication technologies. The chapters in this book examine how to deal with new and emerging practical problems arising in these different fields through the presented methodologies and their applications. The chapter topics are applicable for researchers and practitioners working in these areas, but also for the operations research community. The contributions were presented during the international conference "Optimization and Decision Science" (ODS2017), held at Hilton Sorrento Palace Conference Center, Sorrento, Italy, September 4 – 7, 2017. ODS 2017, was organized by AIRO, Italian Operations Research Society, in cooperation with DIETI (Department of Electrical Engineering and Information Technology) of University "Federico II" of Naples.

   Optimization for Computer Vision Marco Alexander Treiber,2013-07-12 This practical and authoritative text/reference presents a broad introduction to the optimization methods used specifically in computer vision. In order to facilitate understanding, the presentation of the methods is supplemented by simple flow charts, followed by pseudocode implementations that reveal deeper

insights into their mode of operation. These discussions are further supported by examples taken from important applications in computer vision. Topics and features: provides a comprehensive overview of computer vision-related optimization; covers a range of techniques from classical iterative multidimensional optimization to cutting-edge topics of graph cuts and GPU-suited total variation-based optimization; describes in detail the optimization methods employed in computer vision applications; illuminates key concepts with clearly written and step-by-step explanations; presents detailed information on implementation, including pseudocode for most methods.

Comprehensive Metaheuristics Seyedali Mirjalili,Amir Hossein Gandomi,2023-01-31 Comprehensive Metaheuristics: Algorithms and Applications presents the foundational underpinnings of metaheuristics and a broad scope of algorithms and real-world applications across a variety of research fields. The book starts with fundamentals, mathematical prerequisites, and conceptual approaches to provide readers with a solid foundation. After presenting multi-objective optimization, constrained optimization, and problem formation for metaheuristics, world-renowned authors give readers in-depth understanding of the full spectrum of algorithms and techniques. Scientists, researchers, academicians, and practitioners who are interested in optimizing a process or procedure to achieve a goal will benefit from the case studies of real-world applications from different domains. The book takes a much-needed holistic approach, putting the most widely used metaheuristic algorithms together with an in-depth treatise on multi-disciplinary applications of metaheuristics. Each algorithm is thoroughly analyzed to observe its behavior, providing a detailed tutorial on how to solve problems using metaheuristics. New case studies and research problem statements are also discussed, which will help researchers in their application of the concepts. Presented by world-renowned researchers and practitioners in metaheuristics Includes techniques,

algorithms, and applications based on real-world case studies Presents the methodology for formulating optimization problems for metaheuristics Provides readers with methods for analyzing and tuning the performance of a metaheuristic, as well as for integrating metaheuristics in other AI techniques Features online complementary source code from the applications and algorithms

Supply Chain Management Strategies and Methodologies Jorge Luis García Alcaraz,Diego Fernando Manotas Duque,Rosa Guadalupe González-Ramírez,Mario Gustavo Chong Chong,Irineu de Brito Junior,2023-06-02 This book showcases the successful practices of manufacturing companies in Latin America, highlighting the strategies and technologies they have implemented to produce high-quality products and remain competitive in the market. Divided into three parts, the book covers various aspects of the manufacturing process. Part I presents methodologies and strategies for demand forecasting and raw material procurement, providing insights into how companies are meeting their production needs and managing costs. Part II focuses on methodologies and strategies applied in the production process, exploring the various techniques and practices that companies are utilizing to optimize their manufacturing operations. Finally, Part III lists methodologies and strategies applied to product distribution, demonstrating how companies are delivering their products to market efficiently and effectively. Overall, this book provides a comprehensive overview of the best practices being employed by successful manufacturing companies in Latin America, offering valuable insights for businesses looking to improve their manufacturing processes and remain competitive in today's market.

Handbook of Research on Metaheuristics for Order Picking Optimization in Warehouses to Smart Cities Ochoa Ortiz-Zezzatti, Alberto,Rivera, Gilberto,Gómez-Santillán, Claudia,Sánchez Lara, Benito,2019-04-05 Building accurate algorithms for the optimization of

picking orders is a difficult task, especially when one considers the delays of real-world situations. In warehouse environments, diverse algorithms must be developed to enhance the global performance relating to combining customer orders into picking orders to reduce wait times. The Handbook of Research on Metaheuristics for Order Picking Optimization in Warehouses to Smart Cities is a pivotal reference source that addresses strategies for developing able algorithms in order to build better picking orders and the impact of these strategies on the picking systems in which diverse algorithms are implemented. While highlighting topics such ABC optimization, environmental intelligence, and order batching, this publication examines common picking aspects in warehouse environments ranging from manual order picking systems to automated retrieval systems. This book is intended for researchers, teachers, engineers, managers, and practitioners seeking research on algorithms to enhance the order picking performance.

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