

International Series in
Operations Research & Management Science

H. A. Eiselt
Vladimir Marianov *Editors*

Applications of Location Analysis



 Springer

Applications Of Location Analysis International Series In Operations Research Management Science

Hussin A.Rothana



Applications Of Location Analysis International Series In Operations Research Management Science:

Applications of Location Analysis H. A. Eiselt, Vladimir Marianov, 2015-09-22 This book companion to Foundations of Location Analysis Springer 2011 highlights some of the applications of location analysis within the spheres of businesses those that deal with public services and applications that deal with law enforcement and first responders While the Foundations book reviewed the theory and first contributions this book describes how different location techniques have been used to solve real problems Since many real problems comprise multiple objectives in this book there is more presence of tools from multicriteria decision making and multiple objective optimization The section on business applications looks at such problems as locating bank branches the potential location of a logistics park sustainable forest management and layout problems in a hospital a much more difficult type of problem than mere location problems The section on public services presents chapters on the design of habitats for wildlife control of forest fires the location of intelligent sensors along highways for timely emergency response locating breast cancer screening centers an economic analysis for the locations of post offices and school location The final section of the book includes chapters on the well known problem of locating fire stations a model for the location of sensors for travel time information the problem of police districting locations of jails location of Coast Guard vessels and finally a survey of military applications of location analysis throughout different periods of recent history

Operations Research and Enterprise Systems Dominique De Werra, Greg H. Parlier, Begoña Vitoriano, 2015-12-14 This book constitutes revised selected papers from the 4th International Conference on Operations Research and Enterprise Systems ICORES 2015 held in Lisbon Portugal in January 2015 The 14 papers presented in this volume were carefully reviewed and selection from a total of 89 submissions They were organized in topical sections named methodologies and technologies and applications

Multicriteria Location Analysis H. A. Eiselt, Vladimir Marianov, Joyendu Bhadury, 2023-03-01 This book applies Multicriteria Decision Making MCDM tools and techniques to problems in location analysis It begins with a generic model for MCDM and subsequently develops specific versions of the technique for particular location problems Throughout the book MCDM is understood to encompass all tools and techniques that choose or rank existing or feasible solutions including discrete multi attribute decision making MADM problems which typically include an attribute table that specifies the consequences of each decision with regard to the given criteria as well as multi objective linear problems MOLPs which incorporate all objectives in a single optimization problem The book is organized as follows the first four chapters introduce readers to the basic tools and techniques used in single objective optimization multicriteria decision making location analysis and other tools such as statistical regression and geographical information systems This is followed by ten chapters on model applications each of which introduces readers to a specific location problem and applies one technique to solve it The book is then wrapped up in a closing chapter that looks at the location process from a practitioner s point of view This book is intended as a textbook for upper undergraduate and master level courses on location

analysis It will also benefit decision makers who actually need to locate facilities

Soft Computing for Sustainability Science Carlos Cruz Corona, 2017-07-12 This book offers a timely snapshot of soft computing methodologies and their applications to various problems related to sustainability including electric energy consumption fault diagnosis vessel fuel consumption determining the best sites for new malls maritime port projects and ad hoc vehicular networks Further it demonstrates how metaheuristics and machine learning methods fuzzy linear programming neural networks computing with words linguistic models and other soft computing methods can be efficiently used to solve real world problems Intended as a practice oriented guide for students researchers and professionals working at the interface between computer science industrial engineering naval engineering agriculture and sustainable development climate change research it provides readers with a set of intelligent solutions helping them answer a range of emerging questions related to sustainability

Foundations of Location Analysis H. A. Eiselt, Vladimir Marianov, 2011-01-13 Location analysis has matured from an area of theoretical inquiry that was designed to explain observed phenomena to a vibrant field which can be and has been used to locate items as diverse as landfills fast food outlets gas stations as well as politicians and products in issue and feature spaces Modern location science is dealt with by a diverse group of researchers and practitioners in geography economics operations research industrial engineering and computer science Given the tremendous advances location science has seen from its humble beginnings it is time to look back The contributions in this volume were written by eminent experts in the field each surveying the original contributions that created the field and then providing an up to date review of the latest contributions Specific areas that are covered in this volume include The three main fields of inquiry minimax and minimax problems and covering models Nonstandard location models including those with competitive components models that locate undesirable facilities models with probabilistic features and problems that allow interactions between facilities Descriptions and detailed examinations of exact techniques including the famed Weiszfeld method and heuristic methods ranging from Lagrangean techniques to Greedy algorithms A look at the spheres of influence that the facilities generate and that attract customers to them a topic crucial in planning retail facilities The theory of central places which other than in mathematical games where location science was born

Proceedings of the 8th International Conference on

Advanced Intelligent Systems and Informatics 2022 Aboul Ella Hassanien, Václav Snášel, Mincong Tang, Tien-Wen Sung, Kuo-Chi Chang, 2022-11-17 This proceedings book constitutes the refereed proceedings of the 8th International Conference on Advanced Intelligent Systems and Informatics AISI 2021 which took place in Cairo Egypt during November 20 22 2022 and is an international interdisciplinary conference that presents a spectrum of scientific research on all aspects of informatics and intelligent systems technologies and applications

Operations Research/Management Science at Work Erhan Kozan, Azuma Ohuchi, 2012-12-06 The principle aim of this book entitled Operations Research/Management Science at Work is to provide a summary snapshot of recent research in and applications of Operations Research OR Management

Science MS in the Asia Pacific region The book emphasises research having potential industry interest covering a wide range of topics from major fields of OR/MS in a systematic and coherent fashion and shows the elegance of their implementations The book is intended to serve the needs of applied researchers who are interested in applications of OR/MS algorithms The book includes descriptions of many real world problems together with their solutions we hope the reader will appreciate their applicability The Asia Pacific region has embraced business applications of decision support systems in recent years Given that many of these applications are unaffected by legacy models or systems it has meant that state of the art OR/MS techniques have been embedded in them Moreover the increased use of OR/MS techniques in this region provides opportunities for identifying methodological advances that are taking place as a result of the unique nature of the applications These also provide opportunities for exploring synergies and interfaces that exist between OR/MS from the point of view of applications as well as theoretical advances Contributions to Location Analysis H. A. Eiselt, Vladimir

Marianov, 2019-10-07 This book is a volume in honor of Zvi Drezner's 75th birthday Professor Drezner is a leading scholar in location science He received his BSc degree in Mathematics in 1965 and his PhD in Computer Science ten years later both from the Technion in Haifa Israel Since 1978 he has published in excess of 300 papers in refereed journals and books He has received many honors among them the University Outstanding Professor in 2005 the Outstanding Research Award both from Cal State Fullerton the Location Analysis Lifetime Achievement Award from the Society for Location Analysis and was named a Lifetime Fellow in INFORMS Zvi has worked in a variety of fields but most prominently in continuous location models His main contributions include a 1982 paper on competitive location analysis which was the first contribution to formally use the von Stackelberg leader follower concept in the plane contributions in 1989 along with many others on the Weber problem and work with Oded Berman on the p median under uncertainty in 2008 He has also enriched the literature by many contributions that devise genetic algorithms and tabu search techniques both heuristic algorithms as well as global optimization techniques such as the big triangle small triangle method applied to location problems The chapters of the book have been chosen to provide readers with a large variety of topics in the field of location science which normally are available only in many different specialist journals In addition to easily approachable surveys the contributions written by the top specialists in the field present the latest results as well **Operations Research Applications in Health Care**

Management Cengiz Kahraman, Y. Ilker Topcu, 2017-12-08 This book offers a comprehensive reference guide to operations research theory and applications in health care systems It provides readers with all the necessary tools for solving health care problems The respective chapters written by prominent researchers explain a wealth of both basic and advanced concepts of operations research for the management of operating rooms intensive care units supply chain emergency medical service human resources lean health care and procurement To foster a better understanding the chapters include relevant examples or case studies Taken together they form an excellent reference guide for researchers lecturers and postgraduate

students pursuing research on health care management problems The book presents a dynamic snapshot on the field that is expected to stimulate new directions and stimulate new ideas and developments

Linguistic Discrimination of LGBTQ+ People as a Deterrent to Economic Performance Massimiliano Agovino, Massimiliano Cerciello, Michele Bevilacqua, 2024-08-08 This book explores the adverse economic effects of discriminatory language against LGBTQ people The case studies under investigation are represented by the French and the Italian language both boasting vast arrays of slurs employed to denote negatively the members of the LGBTQ community Looking at the relative frequencies of slurs over time the analysis proposed measures the extent of linguistic discrimination Subsequently the book identifies the negative impact of discrimination on economic performance in France and Italy in the long run Slurs impose a psychological cost on the members of the LGBTQ community who become as a result less productive in the workplace Ultimately slurs affect overall economic performance and reduce economic growth at the national level This book stresses the role of inefficiencies associated with discrimination against LGBTQ individuals in various spheres of life with a particular focus on their economic consequences Discriminatory language thus emerges not only as a negative phenomenon per se but also as an obstacle to economic growth This work draws elements from different disciplines and the results it obtains may prove appealing to scholars of economics linguistics and gender studies as well as to policymakers seeking to overcome social exclusion while stimulating economic performance

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