

1. Record Nr.	UNINA9910298474703321
Titolo	Applications of Location Analysis / / edited by H. A. Eiselt, Vladimir Marianov
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2015
ISBN	3-319-20282-0
Edizione	[1st ed. 2015.]
Descrizione fisica	1 online resource (440 p.)
Collana	International Series in Operations Research & Management Science, , 2214-7934 ; ; 232
Disciplina	338.6042
Soggetti	Operations research Regional economics Spatial economics Social policy Operations Research and Decision Theory Regional and Spatial Economics Social Policy
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	Location Analysis in Practice -- Location Analysis in Banking: A New Methodology and Application for a Turkish Bank -- Location Modeling for Logistics Parks -- An Introduction to Industrial Forestry from a Location Perspective -- Layout Planning Problems in Health Care -- Modeling the Potential for Critical Habitat -- Saving the Forest by Reducing Fire Severity: Selective Fuels Treatment Location and Scheduling -- Location Intelligent Sensors on a Transportation Network to Facilitate Emergency Response to Traffic Incidents -- Location Models for Preventive Care -- Modeling the Location of Retail Facilities: Application to the Postal Service -- Rural School Location and Student Allocation -- Fire Station Siting -- Location Vehicle Identification Sensors for Travel Time Information -- Shape and Balance in Police Districting -- Location and Sizing of Prisons and Inmate Allocation -- Vessel Location Modeling for Maritime Search and Rescue -- Military Applications of Location Analysis.

Sommario/riassunto

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.
