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KEY=ARCGIS - QUINN MAXIM

Learning ArcGIS Geodatabases

Packt Publishing Ltd *This is a solution-based book, showcasing the real power of ArcGIS Geodatabase by following a real-world, example-based approach. This book is aimed at geospatial developers who want to work with ArcGIS geodatabases as well as manage them. Having knowledge of building a geodatabase from scratch isn't a must; Learning ArcGIS Geodatabases is ideal for those who want to use ArcGIS geodatabase for the first time, or for those who want to migrate from their existing legacy database to a geodatabase.*

ArcGIS By Example

Packt Publishing Ltd *Develop three engaging ArcGIS applications to address your real-world mapping scenarios About This Book Design, build and run ArcGIS applications using ArcObjects SDK Extend ArcGIS objects and use add -ins to deploy applications on top of ArcGIS An example-centric practical guide to help you understand mapping scenarios with ArcGIS Who This Book Is For If you are an application developer and wish to enhance your skills for the GIS domain with ArcGIS, then this book is for you. Previous experience with ArcGIS is not required. What You Will Learn Use essential ArcGIS code to query geodatabases Communicate with ArcGIS maps, with the help of critical designing and optimisation tips Highlight and interact with objects on your map Query ArcGIS geodatabases with related data to display your information on ArcGIS Edit your underlying geodatabase Explore strategies for the adaptation of various types of spatial analysis techniques into the GIS framework Analyze tools for Geographical Information Systems and remote sensing Experience ArcGIS's advanced tools for manipulation of shapefiles and geodatabases In Detail ArcGIS is a geographic information system (GIS) for working with maps and geographic information. It is considered the turnkey solution to creating and sharing interactive maps. ArcGIS is designed to work the way you work. With nothing to install and set up, ArcGIS helps you make your work productive from day one. The book covers the design and development of three ArcGIS applications to guide the readers in crafting their own GIS solution as per their requirements. The book begins by giving you a refresher on the concepts of ArcGIS. Without wasting any time, you'll begin with developing your first ArcGIS application. You will be developing a cell tower analysis tool. Following this, you will be guided through mapping signal strength and real - time manoeuvring in your GIS system. You will then move on to the second application of the book: a restaurant mapping system. The application will allow tourists to browse restaurants on a map, according to their preferences. Next, you will learn how to work with reviews and ratings and also cover some of the advanced searching options offered by ArcGIS. You will then make use of advanced ArcObjects to develop your third application: an excavation planning manager. The book will conclude by teaching you how work out excavation cost calculations and also saving and retrieving your excavation designs. Style and approach The book offers an enhanced way of learning ArcGIS, through the design and development of three applications throughout its length. In addition to this the book also covers features that you can add to your application as you develop each one covered in the book.*

Beginning ArcGIS for Desktop Development using .NET

John Wiley & Sons *Get the very most out of the ArcGIS for Desktop productsthrough ArcObjects and .NET ArcGIS for Desktop is a powerful suite of software tools forcreating and using maps, compiling, analyzing and sharinggeographic information, using maps and geographic information inapplications, and managing geographic databases. But getting thehang of ArcGIS for Desktop can be a bit tricky, even forexperienced programmers. Core components of ArcGIS platform iscalled ArcObjects. This book first introduce you the whole ArcGISplatform and the opportunities for development using variousprogramming languages. Then it focuses on ArcGIS for Desktopapplications and makes you familiar with ArcObjects from .NET pointof view. Whether you are an ArcGIS user with no background inprogramming or a programmer without experience with the ArcGISplatform, this book arms you with everything you need to get goingwith ArcGIS for Desktop development using .NET?right away. Writtenby a leading expert in geospatial information system design anddevelopment, it provides concise, step-by-step guidance,illustrated with best-practices examples, along with plenty ofready-to-use source code. In no time you?ll progress from .NETprogramming basics to understanding the full suite of ArcGIS toolsand artefacts to customising and building your own commands, toolsand extensions?all the way through application deployment. Among other things, you?ll learn to: Object-Oriented and Interface-based programming in .NET (C# andVB.NET) Finding relationship between classes and interfaces usingobject model diagrams Querying data Visualizing geographical data using various rendering Creating various kinds of Desktop Add-Ins Performing foreground and background geoprocessing Learn how to improve your productivity with ArcGIS forDesktop and Beginning ArcGIS for Desktop Development Using.NET*

Building Web Applications with ArcGIS

Packt Publishing Ltd *If you are a GIS user or a web programmer, this book is for you. This book is also intended for all those who have basic web development knowledge with no prior experience of ArcGIS and are keen on venturing into the world of ArcGIS technology. The book will equip you with the skills to comfortably start your own ArcGIS web development project.*

Learning to Think Spatially

National Academies Press *Spatial thinkingâ€"a constructive combination of concepts of space, tools of representation, and processes of reasoningâ€"uses space to structure problems, find answers, and express solutions. It is powerful and pervasive in science, the workplace, and everyday life. By visualizing relationships within spatial structures, we can perceive, remember, and analyze the static and dynamic properties of objects and the relationships between objects. Despite its crucial role underpinning the National Standards for Science and Mathematics, spatial thinking is currently not systematically incorporated into the K-12 curriculum. Learning to Think Spatially: GIS as a Support System in the K-12 Curriculum examines how spatial thinking might be incorporated into existing standards-based instruction across the school curriculum. Spatial thinking must be recognized as a fundamental part of K-12 education and as an integrator and a facilitator for problem solving across the curriculum. With advances in computing technologies and the increasing availability of geospatial data, spatial thinking will play a significant role in the information- based economy of the 21st-century. Using appropriately designed support systems tailored to the K-12 context, spatial thinking can be taught formally to all students. A geographic information system (GIS) offers one example of a high-technology support system that can enable students and teachers to practice and apply spatial thinking in many areas of the curriculum.*

Pre-Incident Indicators of Terrorist Incidents

The Identification of Behavioral, Geographic and Temporal Patterns of Preparatory Conduct

DIANE Publishing *This is a print on demand edition of a hard to find publication. Explores whether sufficient data exists to examine the temporal and spatial relationships that existed in terrorist group planning, and if so, could patterns of preparatory conduct be identified? About one-half of the terrorists resided, planned, and prepared for terrorism relatively close to their eventual target. The terrorist groups existed for 1,205 days from the first planning meeting to the date of the actual/planned terrorist incident. The planning process for specific acts began 2-3 months prior to the terrorist*

incident. This study examined selected terrorist groups/incidents in the U.S. from 1980-2002. It provides for the potential to identify patterns of conduct that might lead to intervention prior to the commission of the actual terrorist incidents. Illustrations.

Machine Learning for Ecology and Sustainable Natural Resource Management

Springer Ecologists and natural resource managers are charged with making complex management decisions in the face of a rapidly changing environment resulting from climate change, energy development, urban sprawl, invasive species and globalization. Advances in Geographic Information System (GIS) technology, digitization, online data availability, historic legacy datasets, remote sensors and the ability to collect data on animal movements via satellite and GPS have given rise to large, highly complex datasets. These datasets could be utilized for making critical management decisions, but are often “messy” and difficult to interpret. Basic artificial intelligence algorithms (i.e., machine learning) are powerful tools that are shaping the world and must be taken advantage of in the life sciences. In ecology, machine learning algorithms are critical to helping resource managers synthesize information to better understand complex ecological systems. Machine Learning has a wide variety of powerful applications, with three general uses that are of particular interest to ecologists: (1) data exploration to gain system knowledge and generate new hypotheses, (2) predicting ecological patterns in space and time, and (3) pattern recognition for ecological sampling. Machine learning can be used to make predictive assessments even when relationships between variables are poorly understood. When traditional techniques fail to capture the relationship between variables, effective use of machine learning can unearth and capture previously unattainable insights into an ecosystem's complexity. Currently, many ecologists do not utilize machine learning as a part of the scientific process. This volume highlights how machine learning techniques can complement the traditional methodologies currently applied in this field.

Introducing Geographic Information Systems with ArcGIS

A Workbook Approach to Learning GIS

John Wiley & Sons An integrated approach that combines essential GIS background with a practical workbook on applying the principles in ArcGIS 10.0 and 10.1 Introducing Geographic Information Systems with ArcGIS integrates a broad introduction to GIS with a software-specific workbook for Esri's ArcGIS. Where most courses make do using two separate texts, one covering GIS and another the software, this book enables students and instructors to use a single text with an integrated approach covering both in one volume with a common vocabulary and instructional style. This revised edition focuses on the latest software updates—ArcGIS 10.0 and 10.1. In addition to its already successful coverage, the book allows students to experience publishing maps on the Internet through new exercises, and introduces the idea of programming in the language Esri has chosen for applications (i.e., Python). A DVD is packaged with the book, as in prior editions, containing data for working out all of the exercises. This complete, user-friendly coursebook: Is updated for the latest ArcGIS releases—ArcGIS 10.0 and 10.1 Introduces the central concepts of GIS and topics needed to understand spatial information analysis Provides a considerable ability to operate important tools in ArcGIS Demonstrates new capabilities of ArcGIS 10.0 and 10.1 Provides a basis for the advanced study of GIS and the study of the newly emerging field of GIScience Introducing Geographic Information Systems with ArcGIS, Third Edition is the ideal guide for undergraduate students taking courses such as Introduction to GIS, Fundamentals of GIS, and Introduction to ArcGIS Desktop. It is also an important guide for professionals looking to update their skills for ArcGIS 10.0 and 10.1.

ArcGIS Blueprints

Packt Publishing Ltd Explore the robust features of Python to create real-world ArcGIS applications through exciting, hands-on projects About This Book Get to grips with the big world of Python add-ins and wxPython in GUI development to implement their features in your application Integrate advanced Python libraries, ArcPy mapping, and data access module techniques to develop a mapping application Construct a top-notch intermediate-to-advanced project by accessing ArcGIS Server and ArcGIS Online resources through the ArcGIS REST API using a project-based approach Who This Book Is For If you have prior experience building simple apps with ArcGIS and now have a fancy for developing a more challenging and complex desktop application in ArcGIS, then this book is ideal for you. What You Will Learn Automate the creation of creative output data visualizations including maps, charts, and graphs Explore ways to use the ArcPy Mapping module and Data-driven Pages to automate the creation of map books in your own project Develop applications that use the Plotly platform and library to create stunning charts and graphs that can be integrated into ArcGIS Desktop Build tools that access REST services and download data to a local geodatabase Design, build, and integrate advanced GUIs with wxPython and ArcGIS Desktop in ArcGIS Get clued up about constructing applications that export data to Google Earth Pro to automate time-consuming complex processes Maximize the access of ArcGIS Server and ArcGIS Online using the ArcGIS REST API with Python In Detail This book is an immersive guide to take your ArcGIS Desktop application development skills to the next level It starts off by providing detailed description and examples of how to create ArcGIS Desktop Python toolboxes that will serve as containers for many of the applications that you will build. We provide several practical projects that involve building a local area/community map and extracting wildfire data. You will then learn how to build tools that can access data from ArcGIS Server using the ArcGIS REST API. Furthermore, we deal with the integration of additional open source Python libraries into your applications, which will help you chart and graph advanced GUI development; read and write JSON, CSV, and XML format data sources; write outputs to Google Earth Pro, and more. Along the way, you will be introduced to advanced ArcPy Mapping and ArcPy Data Access module techniques and use data-driven Pages to automate the creation of map books. Finally, you will learn advanced techniques to work with video and social media feeds. By the end of the book, you will have your own desktop application without having spent too much time learning sophisticated theory. Style and approach This is an easy-to-follow, project-based guide that guides you through the whole ArcGIS theme with practical, real-world examples and a systematic approach.

Geomorphometry

Concepts, Software, Applications

Newnes Geomorphometry is the science of quantitative land-surface analysis. It draws upon mathematical, statistical, and image-processing techniques to quantify the shape of earth's topography at various spatial scales. The focus of geomorphometry is the calculation of surface-form measures (land-surface parameters) and features (objects), which may be used to improve the mapping and modelling of landforms to assist in the evaluation of soils, vegetation, land use, natural hazards, and other information. This book provides a practical guide to preparing Digital Elevation Models (DEM) for analysis and extracting land-surface parameters and objects from DEMs through a variety of software. It further offers detailed instructions on applying parameters and objects in soil, agricultural, environmental and earth sciences. This is a manual of state-of-the-art methods to serve the various researchers who use geomorphometry. Soil scientists will use this book to further learn the methods for classifying and measuring the chemical, biological, and fertility properties of soils and gain a further understanding of the role of soil as a natural resource. Geologists will find value in the instruction this book provides for measuring the physical features of the soil such as elevation, porosity, and structure which geologists use to predict natural disasters such as earthquakes, volcanoes, and flooding. * Technical details on a variety of software packages allow researchers to solve real-life mapping issues * Provides soil and agronomy researchers best practice techniques for soil data analysis to assist in enhanced land-use and planning * Offers geologists essential tactics for better environmental management by providing a comprehensive analysis of the physical features of soil * Companion website includes access to the latest technological advancements previously unpublished in any other comprehensive source: geomorphometry software, DEM data sources, and applications

OpenStreetMap in GIScience

Experiences, Research, and Applications

Springer This edited volume presents a collection of lessons learned with, and research conducted on, OpenStreetMap, the goal being to promote the project's integration. The respective chapters address a) state-of-the-art and cutting-edge approaches to data quality analysis in OpenStreetMap, b) investigations on understanding OpenStreetMap contributors and the nature of their contributions, c) identifying patterns of contributions and contributors, d) applications of OpenStreetMap in different domains, e) mining value-added knowledge and information from OpenStreetMap, f) limitations in the analysis OpenStreetMap data, and g) integrating OpenStreetMap with commercial and non-commercial datasets. The book offers an ideal opportunity to present and disseminate a number of cutting-edge developments and applications in the field of geography, spatial statistics, GIS, social science, and cartography.

The KML Handbook

Geographic Visualization for the Web

Pearson Education *"The way the information is presented appeals to teachers, hobbyists, web designers—anyone looking for a way to enhance their content by using customized maps." —Warren Kelly, Pastor "It could become the de-facto tutorial volume for the subject, as well as the classic reference guide." —Thomas Duff, Lead Developer "This book is written so well and is so easy to follow it's a joy to go through." — Daniel McKinnon, Software Engineer* KML began as the file format for Google Earth, but it has evolved into a full-fledged international standard for describing any geographic content—the "HTML of geography." It's already supported by applications ranging from Microsoft Virtual Earth and NASA WorldWind to Photoshop and AutoCAD. You can do amazing things with KML, and this book will show you how, using practical examples drawn from today's best online mapping applications. Drawing on her extensive experience with the creators of KML, Wernecke teaches techniques that can be used by everyone from programmers to real estate agents, scientists, students, architects, virtual explorers, and more. Highlights include Incorporating rich content in Placemark balloons Creating overlays that superimpose your images on standard Earth browsers Generating animations that move through Placemarks, Overlays, and Models Controlling and updating map content across the Web Managing large data sets using regions and custom data types Complete KML language reference: elements, types, syntax, file structure, and conventions

Administering ArcGIS for Server

Packt Publishing Ltd *This book is a practical, step-by-step tutorial providing a complete reference guide to the setup, installation, and administration of ArcGIS Server technology. If you are a GIS user, analyst, DBA, or programmer with a basic knowledge of ESRI GIS, then this book is for you.*

Geospatial Technology for Earth Observation

Springer Science & Business Media *Earth Observation interacts with space, remote sensing, communication, and information technologies, and plays an increasingly significant role in Earth related scientific studies, resource management, homeland security, topographic mapping, and development of a healthy, sustainable environment and community. Geospatial Technology for Earth Observation provides an in-depth and broad collection of recent progress in Earth observation. Contributed by leading experts in this field, the book covers satellite, airborne and ground remote sensing systems and system integration, sensor orientation, remote sensing physics, image classification and analysis, information extraction, geospatial service, and various application topics, including cadastral mapping, land use change evaluation, water environment monitoring, flood mapping, and decision making support. Geospatial Technology for Earth Observation serves as a valuable training source for researchers, developers, and practitioners in geospatial science and technology industry. It is also suitable as a reference book for upper level college students and graduate students in geospatial technology, geosciences, resource management, and informatics.*

Advances in Remote Sensing and Geo Informatics Applications

Proceedings of the 1st Springer Conference of the Arabian Journal of Geosciences (CAJG-1), Tunisia 2018

Springer *This edited volume is based on the best papers accepted for presentation during the 1st Springer Conference of the Arabian Journal of Geosciences (CAJG-1), Tunisia 2018. The book compiles a wide range of topics addressing various issues by experienced researchers mainly from research institutes in the Mediterranean, MENA region, North America and Asia. Remote sensing observations can close gaps in information scarcity by complementing ground-based sparse data. Spatial, spectral, temporal and radiometric characteristics of satellites sensors are most suitable for features identification. The local to global nature and broad spatial scale of remote sensing with the wide range of spectral coverage are essential characteristics, which make satellites an ideal platform for mapping, observation, monitoring, assessing and providing necessary mitigation measures and control for different related Earth's systems processes. Main topics in this book include: Geo-informatics Applications, Land Use / Land Cover Mapping and Change Detection, Emerging Remote Sensing Applications, Rock Formations / Soil Lithology Mapping, Vegetation Mapping Impact and Assessment, Natural Hazards Mapping and Assessment, Ground Water Mapping and Assessment, Coastal Management of Marine Environment and Atmospheric Sensing.*

Proceedings of International Conference on Remote Sensing for Disaster Management

Issues and Challenges in Disaster Management

Springer *The natural disasters are the killer agents which can/can't be predicted even though we have modern technology. Every year, in one place or another, disasters striking which is devastating the area and surroundings, leading to ecological disruption besides huge loss of life and property. India is vulnerable to cyclones, landslides/avalanches, earthquakes, floods, droughts, forest fires, epidemics, etc. The 5700-km long coast of India, with its dense population is vulnerable to cyclones/low depressions, tsunamis, etc. The 2400-km long rugged Himalayan terrain is vulnerable to landslides, avalanches and earthquakes. India is not only vulnerable to natural disasters, it is also experiencing industrial accidents. The Bhopal Gas tragedy is one of the major man-made disasters in the world. The state of Andhra Pradesh has 970-km long coastline with two major rivers, etc. The conference is conducted in Visakhapatnam, is famous for industries and tourism. Recently, several industrial accidents took place, besides major natural disasters like Hud-Hud, etc. Disaster management shall be implemented from the grass root level in vulnerable areas to improve the capacity building, so as to minimize the losses. The capacity building coupled with technology results in reduction of loss of life and property.*

Managing aquifer recharge

A Showcase for Resilience and Sustainability

UNESCO Publishing

The ArcGIS Book

10 Big Ideas about Applying the Science of where

ESRI Press *This is a hands-on book about ArcGIS that you work with as much as read. By the end, using Learn ArcGIS lessons, you'll be able to say you made a story map, conducted geographic analysis, edited geographic data, worked in a 3D web scene, built a 3D model of Venice, and more.*

Smart Cities and Construction Technologies

BoD - Books on Demand *This book includes nine chapters presenting the outcome of research projects relevant to building, cities, and construction. A description of a smart city and the journey from conventional to smart cities is discussed at the beginning of the book. Innovative case studies of underground cities and floating city bridges are presented in this book. BIM and GIS applications on different projects, and the concept of intelligent contract and virtual reality are discussed. Two concepts relevant to conventional buildings including private open spaces and place attachments are also included, and these topics can be upgraded in the future by smart technologies.*

GIS

A Computing Perspective, Second Edition

CRC Press *GIS: A Computing Perspective, Second Edition, provides a full, up-to-date overview of GIS, both Geographic Information Systems and the study of Geographic Information Science. Analyzing the subject from a computing perspective, the second edition explores conceptual and formal models needed to understand spatial information, and examines the representations and data structures needed to support adequate system performance. This volume also covers the special-purpose interfaces and architectures required to interact with and share spatial information, and explains the importance of uncertainty and time. The material on GIS architectures and interfaces as well as spatiotemporal information systems is almost entirely new. The second edition contains substantial new information, and has been completely reformatted to improve accessibility. Changes include: A new chapter on spatial uncertainty Complete revisions of the bibliography, index, and supporting diagrams Supplemental material is offset at the top of the page, as are references and links for further study Definitions of new terms are in the margins of pages where they appear, with corresponding entries in the index*

Geoprocessing with Python

Simon and Schuster *Summary Geoprocessing with Python teaches you how to use the Python programming language, along with free and open source tools, to read, write, and process geospatial data. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology This book is about the science of reading, analyzing, and presenting geospatial data programmatically, using Python. Thanks to dozens of open source Python libraries and tools, you can take on professional geoprocessing tasks without investing in expensive proprietary packages like ArcGIS and MapInfo. The book shows you how. About the Book Geoprocessing with Python teaches you how to access available datasets to make maps or perform your own analyses using free tools like the GDAL, NumPy, and matplotlib Python modules. Through lots of hands-on examples, you'll master core practices like handling multiple vector file formats, editing geometries, applying spatial and attribute filters, working with projections, and performing basic analyses on vector data. The book also covers how to manipulate, resample, and analyze raster data, such as aerial photographs and digital elevation models. What's Inside Geoprocessing from the ground up Read, write, process, and analyze raster data Visualize data with matplotlib Write custom geoprocessing tools Three additional appendixes available online About the Reader To read this book all you need is a basic knowledge of Python or a similar programming language. About the Author Chris Garrard works as a developer for Utah State University and teaches a graduate course on Python programming for GIS. Table of Contents Introduction Python basics Reading and writing vector data Working with different vector file formats Filtering data with OGR Manipulating geometries with OGR Vector analysis with OGR Using spatial reference systems Reading and writing raster data Working with raster data Map algebra with NumPy and SciPy Map classification Visualizing data Appendixes A - Installation B - References C - OGR - online only D - OSR - online only E - GDAL - online only*

Getting Started with Geographic Information Systems

Prentice Hall *This best-selling non-technical, reader-friendly introduction to GIS makes the complexity of this rapidly growing high-tech field accessible to beginners. It uses a "learn-by-seeing" approach that features clear, simple explanations, an abundance of illustrations and photos, and generic practice labs for use with any GIS software. What Is a GIS? GIS's Roots in Cartography. Maps as Numbers. Getting the Map into the Computer. What Is Where? Why Is It There? Making Maps with GIS. How to Pick a GIS. GIS in Action. The Future of GIS. For anyone interested in a hands-on introduction to Geographic Information Systems.*

ArcGIS for Desktop Cookbook

Packt Publishing Ltd *This book is a good companion to get you quickly acquainted with everything you need to increase your productivity with the ArcGIS Desktop. It would be helpful to have a bit of familiarity with basic GIS concepts. If you have no previous experience with ArcGIS, this book will still be helpful for you because it will help you catch up to the acquainted users from a practical point of view.*

Location Science

Springer *This comprehensive and clearly structured book presents essential information on modern Location Science. The book is divided into three parts: basic concepts, advanced concepts and applications. Written by the most respected specialists in the field and thoroughly reviewed by the editors, it first lays out the fundamental problems in Location Science and provides the reader with basic background information on location theory. Part II covers advanced models and concepts, broadening and expanding on the content presented in Part I. It provides the reader with important tools to help them understand and solve real-world location problems. Part III is dedicated to linking Location Science with other areas like GIS, telecommunications, healthcare, rapid transit networks, districting problems and disaster events, presenting a wide range of applications. This part enables the reader to understand the role of facility location in such areas, as well as to learn how to handle realistic location problems. The book is intended for researchers working on theory and applications involving location problems and models. It is also suitable as a textbook for graduate courses on facility location.*

Geospatial Technologies and Climate Change

Springer Science & Business Media *Geospatial Technologies and Climate Change describes various approaches from different countries on how to use geospatial technologies to help solving climate change issues. It also details how different geospatial technologies (remote sensing, Geographical Information System...) can be used to help with climate monitoring and modeling, how to work with them and what to be careful about. This book is written by scientific experts from four different continents. Written in a comprehensive and complete way, this book is essential reading material for graduate and undergraduate students interested in these techniques and in climate change.*

Arc Hydro

GIS for Water Resources

ESRI, Inc. *Why Arc hydro? / David Maidment / - Arc Hydro framwork / David Maidment, Scott Morehouse / - Hydro networks / Francisco Olivera, David Maidment / - Drainage systems / Francisco Olivera, Jordan Furnans / River channels / Nawajish Noma, James Nelson / Hydrography / Kim Davis, Jordan Furnans / - Time series / Damid Maidment, Venkatesh Merwade / - Hydrologic modeling / Steve Grise, David Arctur.*

The GIS Guide for Elected Officials

ESRI Press *"The GIS Guide for Elected Officials is a valuable resource for government officials who want to better understand how to use geographic information systems (GIS) to answer location-based questions. The use cases in GIS Guide for Elected Officials show the wide range of problems GIS can help solve, including determining potential markets for a start-up business, responding to the needs of a community during a disaster, and identifying urban food deserts. Designed to enable governments to learn from the experience of others, this volume also includes a review of what it takes to build and maintain a strong GIS program in light of rapidly changing technology and shrinking government budgets"--*

Geographic Information Systems and Cartographic Modeling

Convenções, capacidades e técnicas da modelagem cartográfica e Sistemas de Informação Geográfica.

Computational Science and Its Applications -- ICCSA 2013

13th International Conference, ICCSA 2013, Ho Chi Minh City, Vietnam, June 24-27, 2013, Proceedings, Part V

Springer *The five-volume set LNCS 7971-7975 constitutes the refereed proceedings of the 13th International Conference on Computational Science and Its Applications, ICCSA 2013, held in Ho Chi Minh City, Vietnam in June 2013. The 248 revised papers presented in five tracks and 33 special sessions and workshops were carefully reviewed and selected. The 46 papers included in the five general tracks are organized in the following topical sections: computational methods, algorithms and scientific applications; high-performance computing and networks; geometric modeling, graphics and visualization; advanced and emerging applications; and information systems and technologies. The 202 papers presented in special sessions and workshops cover a wide range of topics in computational sciences ranging from computational science technologies to specific areas of computational sciences such as computer graphics and virtual reality.*

Stone Conservation

An Overview of Current Research

Getty Publications *First published in 1996, this volume has been substantially updated to reflect new research in the conservation of stone monuments, sculpture, and archaeological sites.*

ArcGIS 9

Building a geodatabase

Esri Press *This book introduces you to geodatabase concepts and shows you how to use the ESRI ArcGIS Desktop products ArcInfo, ArcEditor, and ArcView to implement geographic database designs. Whether you are importing existing data or building a new geodatabase from scratch, this book makes it easy to identify and complete your task. Begin with the quick-start tutorial to learn how to create and edit a geodatabase, or if you prefer, jump right in and experiment on your own. The book also includes concise, step-by-step, fully illustrated examples.*

Digital Transformation of the Design, Construction and Management Processes of the Built Environment

Springer Nature *This open access book focuses on the development of methods, interoperable and integrated ICT tools, and survey techniques for optimal management of the building process. The construction sector is facing an increasing demand for major innovations in terms of digital dematerialization and technologies such as the Internet of Things, big data, advanced manufacturing, robotics, 3D printing, blockchain technologies and artificial intelligence. The demand for simplification and transparency in information management and for the rationalization and optimization of very fragmented and splintered processes is a key driver for digitization. The book describes the contribution of the ABC Department of the Polytechnic University of Milan (Politecnico di Milano) to R&D activities regarding methods and ICT tools for the interoperable management of the different phases of the building process, including design, construction, and management. Informative case studies complement the theoretical discussion. The book will be of interest to all stakeholders in the building process - owners, designers, constructors, and faculty managers - as well as the research sector.*

GeoComputation and Public Health

A Spatial Approach

Springer *GeoComputation and Public Health is fundamentally a multi-disciplinary book, which presents an overview and case studies to exemplify numerous methods and solicitations in addressing vectors borne diseases (e.g. Visceral leishmaniasis, Malaria, Filaria). This book includes a practical coverage of the use of spatial analysis techniques in vector-borne disease using open source software solutions. Environmental factors (relief characters, climatology, ecology, vegetation, water bodies etc.) and socio-economic issues (housing type & pattern, education level, economic status, income level, domestics' animals, census data, etc) are investigated at micro -level and large scale in addressing the various vector-borne disease. This book will also generate a framework for interdisciplinary discussion, latest innovations, and discoveries on public health. The first section of the book highlights the basic and principal aspects of advanced computational practices. Other sections of the book contain geo-simulation, agent-based modeling, spatio-temporal analysis, geospatial data mining, various geocomputational applications, accuracy and uncertainty of geospatial models, applications in environmental, ecological, and biological modeling and analysis in public health research. This book will be useful to the postgraduate students of geography, remote sensing, ecology, environmental sciences and research scholars, along with health professionals looking to solve grand challenges and*

management on public health.

Solid Waste Engineering: A Global Perspective

Cengage Learning Readers gain the knowledge to address the growing and increasingly intricate problem of controlling and processing the refuse created by global urban societies with *SOLID WASTE ENGINEERING: A GLOBAL PERSPECTIVE, 3E*. While the authors prepare readers to deal with issues, such as regulations and legislation, the main emphasis throughout the book is on mastering solid waste engineering principles. The book first explains the basic principles of the field and then demonstrates through worked examples how readers can apply these principles in real world settings. Readers learn to think reflectively and logically about the problems and solutions in today's solid waste engineering. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Mosul after Islamic State

The Quest for Lost Architectural Heritage

Springer Nature The book examines the destruction of the architectural heritage in Mosul perpetrated by Islamic State between 2014 and 2017. It identifies which structures were attacked, the ideological rationale behind the destruction, and the significance of the lost monuments in the context of Mosul's urban development and the architectural history of the Middle East. This methodologically innovative work fills an important gap in the study of both current radical movements and the medieval Islamic architecture of Northern Iraq.

Smart Infrastructure and Applications

Foundations for Smarter Cities and Societies

Springer This book provides a multidisciplinary view of smart infrastructure through a range of diverse introductory and advanced topics. The book features an array of subjects that include: smart cities and infrastructure, e-healthcare, emergency and disaster management, Internet of Vehicles, supply chain management, eGovernance, and high performance computing. The book is divided into five parts: Smart Transportation, Smart Healthcare, Miscellaneous Applications, Big Data and High Performance Computing, and Internet of Things (IoT). Contributions are from academics, researchers, and industry professionals around the world. Features a broad mix of topics related to smart infrastructure and smart applications, particularly high performance computing, big data, and artificial intelligence; Includes a strong emphasis on methodological aspects of infrastructure, technology and application development; Presents a substantial overview of research and development on key economic sectors including healthcare and transportation.

Understanding GIS

An ArcGIS Pro Project Workbook

ESRI Press Foreword -- Preface -- Lesson 1. Frame the problem and explore the study area -- Lesson 2. Preview the data -- Lesson 3. Choose the data -- Lesson 4. Build the database -- Lesson 5. Edit the data -- Lesson 6. Conduct the analysis -- Lesson 7. Automate the analysis -- Lesson 8. Present your analysis results -- Lesson 9. Share your results online

Across Space and Time

papers from the 41st conference on computer applications and quantitative methods in archaeology, Perth, 25-28 March 2013

Amsterdam University Press This volume presents a selection of the best papers presented at the forty-first annual Conference on Computer Applications and Quantitative Methods in Archaeology. The theme for the conference was "Across Space and Time", and the papers explore a multitude of topics related to that concept, including databases, the semantic Web, geographical information systems, data collection and management, and more.

Learn GIS Programming with Arcgis for JavaScript API 4.X and Arcgis Online: Learn GIS Programming by Building an Engaging Web Map Application, Works O

Independently Published Build a web mapping application from scratch using ArcGIS Javascript API and ArcGIS Online. You will build an app that helps users locate landmarks. The app shows the landmarks in a map such as libraries, cafes, restaurants schools and much more. It has a search capability to search for landmarks where they will be highlighted on the map. It also shows the nearby landmarks within specific miles from current location. So you can answer interesting questions such as show me all libraries within 100 feet of this coffee shop or are there any liquor stores within a mile from this school? I will be providing you with the sample data which I created myself, this data is not real it is just sample. All we need is to write the application. The app will run on both mobile and desktop. Whom this book is written for? Anyone interested in learning how to build a web mapping application. Basic programming knowledge is recommended but not required. I will explain all that is required as we go through the book. System Requirements I designed this book in a way so you don't require a special or license to get started. I will be using a mac in this book but will include instructions for Windows and Linux. We will use ArcGIS Online free account to host our landmark data and ArcGIS Javascript API 4.x to write the web application. I will provide that data in GeoJSON format so we can upload it to ArcGIS Online. Software Requirements All you need on your machine is a text editor to write code and a web server to serve the static files. I will be using Node JS as a web server and Visual Studio Code as the text editor. We will take care of the download and installation of those two in chapter

Curating Research Data

Data are becoming the proverbial coin of the digital realm: a research commodity that might purchase reputation credit in a disciplinary culture of data sharing, or buy transparency when faced with funding agency mandates or publisher scrutiny. Unlike most monetary systems, however, digital data can flow in all too great an abundance. Not only does this currency actually grow on trees, but it comes from animals, books, thoughts, and each of us! And that is what makes data curation so essential. The abundance of digital research data challenges library and information science professionals to harness this flow of information streaming from research discovery and scholarly pursuit and preserve the unique evidence for future use. Volume One of *Curating Research Data* explores the variety of reasons, motivations, and drivers for why data curation services are needed in the context of academic and disciplinary data repository efforts. Twelve chapters, divided into three parts, take an in-depth look at the complex practice of data curation as it emerges around us. Part I sets the stage for data curation by describing current policies, data sharing cultures, and collaborative efforts currently underway that impact potential services. Part II brings several key issues, such as cost recovery and marketing strategy, into focus for practitioners when considering how to put data curation services in action. Finally, Part III describes the full lifecycle of data by examining the ethical and

practical reuse issues that data curation practitioners must consider as we strive to prepare data for the future. Digital data is ubiquitous and rapidly reshaping how scholarship progresses now and into the future. The information expertise of librarians can help ensure the resiliency of digital data, and the information it represents, by addressing how the meaning, integrity, and provenance of digital data generated by researchers today will be captured and conveyed to future researchers.