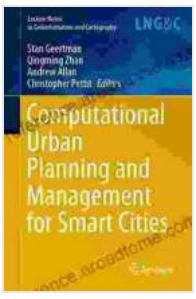
Computational Urban Planning and Management for Smart Cities: Empowering Sustainable and Livable Urban Environments

The rapid urbanization of the 21st century has brought unprecedented challenges to cities worldwide, including traffic congestion, air pollution, resource scarcity, and social inequality. To address these complex issues, a new paradigm of urban planning and management is emerging, driven by the advancements in computational technologies.

Computational Urban Planning and Management (CUPM) leverages data, models, and algorithms to optimize urban systems and improve the quality of life for urban residents. This book provides a comprehensive overview of the latest research and applications in CUPM, offering insights into how computational methods can transform urban planning and management practices.



Computational Urban Planning and Management for Smart Cities (Lecture Notes in Geoinformation and Cartography)

★★★★★ 5 out of 5

Language	: English
File size	: 131370 KB
Text-to-Speech	: Enabled
Screen Reader	: Supported
Enhanced typesetting	: Enabled
Word Wise	: Enabled
Print length	: 507 pages

Key Features

- **Comprehensive Coverage:** Explores the full spectrum of CUPM, from theoretical foundations to practical applications, covering topics such as data analytics, modeling and simulation, optimization, decision-making, and citizen engagement.
- **Multidisciplinary Approach:** Draws upon a diverse range of disciplines, including computer science, urban planning, engineering, economics, and social sciences, to provide a holistic perspective on urban challenges and solutions.
- **Real-World Examples:** Demonstrates the practical applications of CUPM through case studies and examples from cities around the world, showcasing how computational methods are transforming urban planning and management.
- **Latest Research:** Presents cutting-edge research findings and advances in CUPM, keeping readers up-to-date with the latest scientific developments.
- **Accessible Writing:** Written in a clear and engaging style, making it accessible to a broad audience of students, researchers, practitioners, and policymakers.

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- 6.2 Land Use Planning
- 6.3 Environmental Planning and Management
- 6.4 Social Planning and Management

7. **Chapter 7: Future Directions and Challenges**
    - 7.1 Emerging Trends in CUPM
    - 7.2 Challenges and Opportunities for Future Research
    - 7.3 The Promise of CUPM for Smart and Sustainable Cities

Target Audience

This book is intended for a diverse audience, including:

- Students of urban planning, computer science, and related fields
- Researchers interested in computational methods for urban planning and management
- Practitioners in urban planning, transportation planning, and environmental management
- Policymakers responsible for urban planning and development
- Anyone interested in the future of sustainable and livable cities

Benefits for Readers

By reading this book, readers will:

- Gain a comprehensive understanding of the principles and practices of Computational Urban Planning and Management.

- Develop the skills and knowledge to use computational methods for urban planning and management projects.
- Learn about the latest research and trends in CUPM.
- Be inspired by real-world examples of how CUPM is transforming urban planning and management.
- Contribute to the creation of more sustainable, livable, and equitable cities for the 21st century.

Call to Action

If you are interested in learning more about Computational Urban Planning and Management, and how it can help us build better cities for the future, this book is for you. Free Download your copy today and start your journey to becoming a computational urban planner!

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Smart People
Smart Mobility
Smart Retail
Smart Industry
Smart Energy
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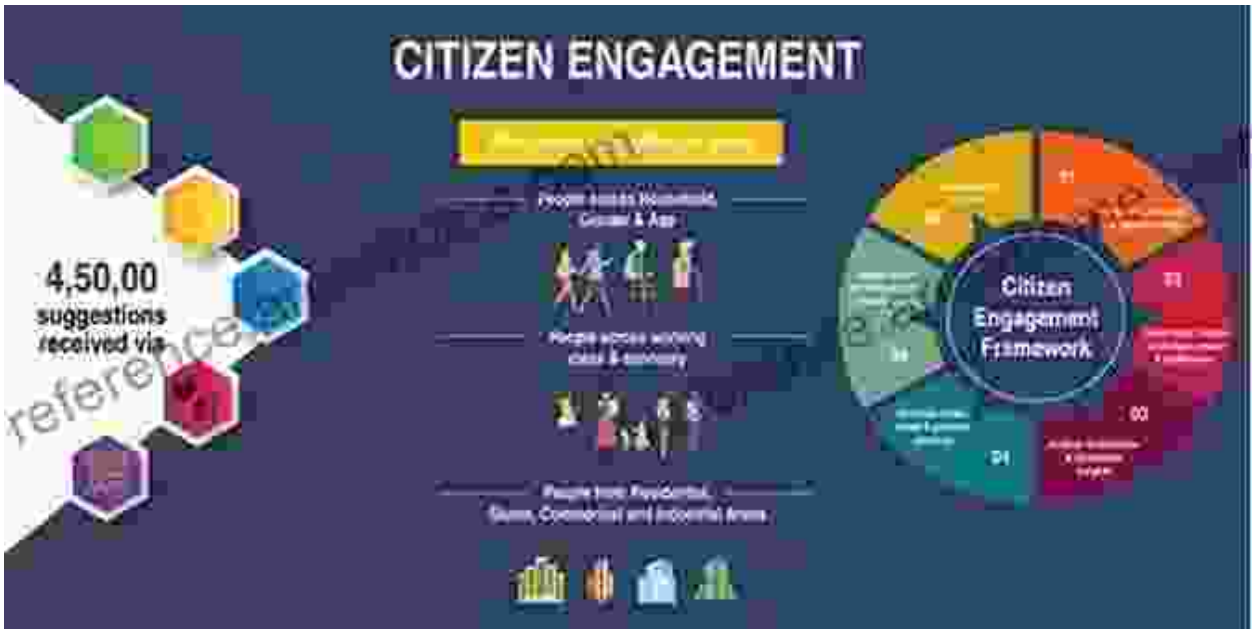
- 

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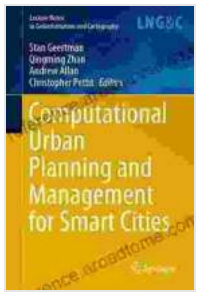

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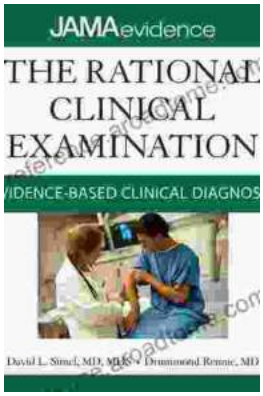

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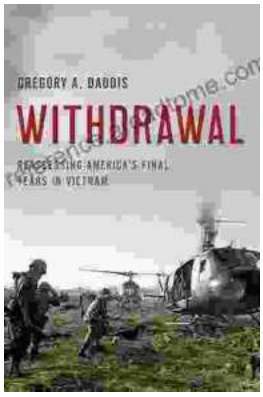

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