Emerging Issues, Challenges, and Opportunities in Urban E-Planning

Part of the Advances in Civil and Industrial Engineering (ACIE) Book Series

Carlos Nunes Silva (University of Lisbon, Portugal)

Description:
Recent advances in information and communication technologies have enhanced the standards of metropolitan planning and development. These innovations have led to new opportunities in this evolving profession.

Emerging Issues, Challenges, and Opportunities in Urban E-Planning brings together the efficiency of web-based tools and digital technologies with the practice of spatial planning by focusing on the utilization of geographic information systems, computer-assisted design, visualization concepts, and database management systems.

Readers:
This book is a pivotal reference source for planners, policymakers, researchers, and graduate students interested in how recent technological advancements are enhancing the traditional practices in urban planning.


Topics Covered:
- Developed vs. Developing Countries
- Geovisualization
- Media and Communication
- Mobile Applications
- Social Movements
- Virtual Reality
- Web 2.0 Tools

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Preface
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PART I - The Role of Web 2.0 in Urban Planning

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Ant-Veikko Anttiroiko, University of Tampere, Finland

Chapter 2 - There's an App for That: Mobile Applications that Advance Urban Planning
Jennifer Evans-Cowley, Austin E. Knowlton School of Architecture, Ohio State University, USA
Brittany Kubinski, Austin E. Knowlton School of Architecture, Ohio State University, USA

Chapter 3 - Participatory Environmental Planning Platform
Soon Ae Chun, City University of New York, USA
Francisco Artigas, New Jersey Meadowlands Commission, USA

Chapter 4 - Socio Technical Systems on the Move: Some Insights for Policy Activity
SYLVE OCCELLI, IRES - ISTITUTO DI RICERCHE ECONOMICI SOCIALI DEL PIEMONTE, Turin, Italy

PART II - Web based e-tools, urban social movements and public space

Chapter 5 - The Impact of Information and Communications Technology on the rise of urban social movements in Poland
Maja Grzabowska, Department of Economic Geography, University of Gdańsk, Gdańsk, Poland
Łukasz Pancewicz, Department of Urban and Regional Planning, Faculty of Architecture, Gdańsk University of Technology, Gdańsk, Poland
Iwona Sagan, Department of Economic Geography, University of Gdańsk, Gdańsk, Poland

Chapter 6 - Smart Urbanism and Digital Activism in Southern Italy
Arturo Di Bella, Department of Political and Social Science, University of Catania, Catania, Sicily, Italy

Chapter 7 - Planning for Urban Media: Large Public Screens and Urban Communication
Scott McQuire, School of Culture and Communication, University of Melbourne, Australia
Nikos Papastergiadis, School of Culture and Communication, University of Melbourne, Australia
Frank Vetere, Information Systems, University of Melbourne, Australia
Martin Gibbs, Information Systems, University of Melbourne, Australia
John Downs, Information Systems, University of Melbourne, Australia
Sonja Pedell, School of Design, Swinburne University of Technology, Australia

PART III – Modelling, Virtual Reality and Geovisualization

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John Danahy, Centre for Landscape Research, Daniels Faculty of Architecture, Landscape, and Design, University of Toronto, Canada
Jacob Mitchell, Centre for Landscape Research, Daniels Faculty of Architecture, Landscape, and Design, University of Toronto, Canada
Rob Feick, School of Planning, University of Waterloo, Waterloo, Canada

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Ruth E. Falconer, School of Science, Engineering & Technology, University of Abertay Dundee, DDI IHG, United Kingdom
John P. Isaacs, School of Science, Engineering & Technology, University of Abertay Dundee, DDI IHG, United Kingdom
David J. Blackwood, School of Science, Engineering & Technology, University of Abertay Dundee, DDI IHG, United Kingdom

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Amar Bennaadij, Scott Sutherland School, Robert Gordon University, Aberdeen, UK
Richard Laing, Scott Sutherland School, Robert Gordon University, Aberdeen, UK
David Gray, Institute for Management Governance & Society, Robert Gordon University, Aberdeen, UK

Chapter 11 - Sequential Experiences in Energy Producing Landscapes
Ian D. Bishop, Department of Infrastructure Engineering, University of Melbourne, Melbourne, VIC, Australia

Chapter 12 - A Unified Building Model for a Real 3D Cadastral System Mohamed El-Mekawy, Department of Computer and Systems Sciences, DSV, Stockholm University, Stockholm, Sweden
Anders Östman, Faculty of Engineering and Sustainable Development, University of Gävle, Gävle, Sweden

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Chapter 14 - E-Governance in Africa and the Challenges Confronting Urban e-Planning: Lusophone African Countries
Carlos Nunes Silva, Institute of Geography and Spatial Planning, Universidade de Lisboa, Portugal

Carlos Nunes Silva, PhD, is Professor Auxiliar at the Institute of Geography and Spatial Planning, University of Lisbon, Portugal. He has a degree in Geography (University of Coimbra), a post-graduation in European Studies (University of Coimbra - Faculty of Law), a master degree in Human Geography: Regional and Local Planning (University of Lisbon), and a PhD in Geography: Regional and Local Planning (University of Lisbon). His research interests are mainly focused on local government policies, history and theory of urban planning, urban and metropolitan governance, urban planning ethics, urban planning in Africa, research methods, egovernment, and urban e-planning. His recent publications include the books: Urban Planning in Sub-Saharan Africa: Colonial and Postcolonial Planning Cultures (2015); Fiscal Austerity and Innovation in Local Governance in Europe (2014, co-edited); Citizen e-Participation in Urban Governance: Crowdsourcing and Collaborative Creativity (2013); Online Research Methods in Urban and Planning Studies: Design and Outcomes (2012); Handbook of Research on E-Planning: ICT for Urban Development and Monitoring (2010). He is member of the Steering Committee of the International Geographical Union Commission 'Geography of Governance' (2012-2016). He is the founding Editor-in-Chief of the International Journal of E-Planning Research (IJEPR).