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**Fundamental Concepts and Theories**

This section serves as a foundation for this exhaustive reference tool by addressing underlying principles essential to the understanding of Geographic Information Systems. Chapters found within these pages provide an excellent framework in which to position Geographic Information Systems within the field of information science and technology. Insight regarding the critical incorporation of global measures into Geographic Information Systems is addressed, while crucial stumbling blocks of this field are explored. With 15 chapters comprising this foundational section, the reader can learn and chose from a compendium of expert research on the elemental theories and technological building blocks underscoring the Geographic Information Systems discipline.

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Christian José Correa Villalón, Institute of Education of Aguascalientes, Mexico

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Section 8
Emerging Trends

This section highlights research potential within the field of Geographic Information Systems while
exploring uncharted areas of study for the advancement of the discipline. Introducing this section are
chapters that set the stage for future research directions and topical suggestions for continued debate,
centering on the new venues and forums for discussion. A pair of chapters on data mining and urban
planning makes up the middle of the section of the final 16 chapters, and the book concludes with a
look ahead into the future of the Geographic Information Systems field, with “Toward a Roadmap to
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and academics interested in the best practices and applications of the burgeoning field of Geographic
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Matthew H. Connolly, Texas State University-San Marcos, USA
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  Edward Pultar, University of California – Santa Barbara, USA

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  Felicia O. Akinyemi, Kigali Institute of Science and Technology, Rwanda

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  Elizabeth Hane, Rochester Institute of Technology, USA
  Karl Korfmacher, Rochester Institute of Technology, USA

Chapter 124
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  Yongyut Trisurat, Kasetsart University, Thailand
  Albertus G. Toxopeus, University of Twente, The Netherlands
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Application to the State of Pennsylvania

Timothy J. Dolney, Penn State University – Altoona, USA

Chapter 127
Innovative ICT Applications in Transport and Logistics: Some Evidence from Asia

Mark Goh, University of South Australia, Australia & National University of Singapore, Singapore
Kym Fraser, University of South Australia, Australia

Chapter 128
3D Camera Tracking for Mixed Reality using Multi-Sensors Technology

Fakhreddine Ababsa, University of Evry Val d’Essonne, France
Iman Maissa Zendjebil, University of Evry Val d’Essonne, France
Jean-Yves Didier, University of Evry Val d’Essonne, France

Chapter 129
Automatic Metadata Generation for Geospatial Resource Discovery

Miguel-Angel Manso-Callejo, Universidad Politécnica de Madrid, Spain
Arturo Beltran Fonollosa, Universitat Jaume 1 de Castellón, Spain

Chapter 130
Semantic Enrichment for Geospatial Information in a Tourism Recommender System

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Joan Borràs, Science and Technology Park for Tourism and Leisure, Spain
David Isern, Universitat Rovira i Virgili, Spain
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Antonio Moreno, Universitat Rovira i Virgili, Spain
Antonio Russo, Universitat Rovira i Virgili, Spain
Yolanda Pérez, Universitat Rovira i Virgili, Spain
Salvador Anton-Clavé, Universitat Rovira i Virgili, Spain