
Contents

Preface.....	vii
Editor	xi

SECTION 1 Techniques and Technologies

Chapter 1 Positioning and Tracking Approaches and Technologies	3
<i>Dorota Grejner-Brzezinska and Allison Kealy</i>	
Chapter 2 WiFi Location Fingerprinting.....	55
<i>Prashant Krishnamurthy</i>	
Chapter 3 Geocoding Techniques and Technologies for Location-Based Services.....	75
<i>Daniel W. Goldberg</i>	
Chapter 4 Multimodal Route Planning: Its Modeling and Computational Concerns.....	107
<i>Lu Liu and Liliu Meng</i>	

SECTION 2 New Trends

Chapter 5 Location-Based Social Networks.....	127
<i>Prashant Krishnamurthy and Konstantinos Pelechrinis</i>	
Chapter 6 Geo-Crowdsourcing	145
<i>Jessica G. Benner and Hassan A. Karimi</i>	
Chapter 7 Pedestrian Path Generation through GPS Traces.....	165
<i>Piyawan Kasemsuppakorn and Hassan A. Karimi</i>	
Chapter 8 A CyberGIS Environment for Analysis of Location-Based Social Media Data.....	187
<i>Shaowen Wang, Guofeng Cao, Zhenhua Zhang, Yanli Zhao, Anand Padmanabhan, and Kaichao Wu</i>	

SECTION 3 Services

Chapter 9	Multisensor Map Matching for Pedestrian and Wheelchair Navigation.....	209
	<i>Ming Ren and Hassan A. Karimi</i>	
Chapter 10	Security and Privacy in Location-Based Services	235
	<i>Mohd Anwar, Amirreza Masoumzadeh, and James Joshi</i>	
Chapter 11	How Using Location-Based Services Affects Our Understanding of Our Environment	265
	<i>Kai-Florian Richter</i>	
Chapter 12	The Open Geospatial Consortium and Location Service Standards.....	283
	<i>Carl Reed</i>	
Index		303