

Table of Contents

Foreword.....	vii
Preface	ix
Acknowledgments.....	xi
About the Authors	xiii
Introduction Mark R. Linné, MAI, SRA	1
SECTION I	
Reimagining Valuation: Thoughts on the Future of Appraisal	
Chapter 1 Valuation 2.0: The Changing Landscape of Appraisal.....	13
Mark R. Linné, MAI, SRA	
Chapter 2 Leveraging Valuation 2.0: Examining the Changing Appraisal Landscape.....	23
Mark R. Linné, MAI, SRA	
Chapter 3 Open Data Standards for Real Estate, Appraisal, and Mortgage Banking: Implications for the Industry	33
Mark R. Linné, MAI, SRA, Elizabeth Green, and John Cirincione, SRA	
Chapter 4 The Valuation Professional of the Future: Training for Innovation	47
Mark R. Linné, MAI, SRA	

Chapter 5	Introduction to Geographic Information Systems	59
	Michelle M. Thompson, PhD, and Milton Ospina	
Chapter 6	Integrating Geographic Information and Valuation Modeling for Real Estate	65
	Mark R. Linné, MAI, SRA, and John Cirincione, SRA	
Chapter 7	GIS for Business and Economic Development: From Data to Analysis	77
	Michelle M. Thompson, PhD, and Milton Ospina	

SECTION II

Implementing Innovation: Practical Applications of Advanced Technology

Chapter 8	GIS and GPS Usage in Land Appraisal	101
	Christopher Miner, MAI, SRA	
Chapter 9	Developing Enterprise-Level Valuation Applications: Incorporating Appraisers in Innovation	123
	John Connelley, Kirk Manker, Mark R. Linné, MAI, SRA, and James Gresham	
Chapter 10	Innovating the Approaches to Value: Incorporating Valuation Modeling Techniques into Traditional Appraisal Practice	155
	Mark R. Linné, MAI, SRA, James Gresham, and James Russell Thimgan	
Chapter 11	Practical Integrations of Valuation Modeling and Geographic Information Systems: First Steps toward a More Robust Market Analysis and Valuation Methodology	181
	Patrick M. O'Connor and Michael Ireland	
Chapter 12	Innovation in Residential Valuation Tools: Integrating Data and Analytics	221
	Mark R. Linné, MAI, SRA	

SECTION III

Pushing the Envelope: Advanced Case Studies from Academia

Chapter 13	Advanced Statistical Analysis of Real Estate Data Using Geoda	253
	Françoise Vermeylen, Sumeeta Srinivasan, PhD, and Michelle M. Thompson, PhD	
Chapter 14	Using Econometrics and Geographic Information Systems for Property Valuation: A Spatial Hedonic Pricing Model	265
	Richard Bernknopf, PhD, Kevin Gillen, PhD, Susan Wachter, PhD, and Anne Wein, PhD	
Chapter 15	Coastal Property Analysis through a Hazard Exposure Lens	301
	Ann-Margaret Esnard, PhD, and Ana Puszkin-Chevlin, PhD	