

Contents

<i>Contributors</i>	ix
<i>Foreword</i>	xv
<i>Preface</i>	xxi
<i>Abbreviations</i>	xxiii
1 Introduction: Suitability Issues in Mass Appraisal Methodology	1
<i>Tom Kauko and Maurizio d'Amato</i>	
 PART I MASS APPRAISAL PRACTICE AND RECOMMENDATIONS	 25
2 Data Issues Involved with the Application of Automated Valuation Methods: A Case Study	27
<i>John F. Thompson, Jr</i>	
3 The Modified Comparable Sales Method as the Basis for a Property Tax Valuations System and its Relationship and Comparison to Spatially Autoregressive Valuation Models	49
<i>Richard A. Borst and William J. McCluskey</i>	
4 Automated Valuation in the Dutch Housing Market: The Web-Application 'MarktPositie' Used by NVM-Realtors	70
<i>Dree Op 't Veld, Emma Bijlsma and Paulien van de Hoef</i>	
5 Using Fuzzy Numbers in Mass Appraisal: The Case of the Belarusian Property Market	91
<i>Maurizio d'Amato and Nikolai Siniak</i>	
 PART II CURRENT ADVANCED METHODS	 109
6 Mass Appraisal, Hedonic Price Modelling and Urban Externalities: Understanding Property Value Shaping Processes	111
<i>François Des Rosiers and Marius Thériault</i>	
7 Residuals Analysis for Constructing 'More Real' Property Value	148
<i>Małgorzata Renigier</i>	
8 The Hierarchical Trend Model	164
<i>Marc K. Francke</i>	

PART III EMERGING METHODS	181
9 Developing Mass Appraisal Models with Fuzzy Systems	183
<i>Marco Aurélio Stumpf González</i>	
10 Utterly Unorthodox Modelling for the Purposes of Mass Appraisal: An Approach Based on Patterns and Judgments	203
<i>Tom Kauko</i>	
11 Rough Set Theory as Property Valuation Methodology: The Whole Story	220
<i>Maurizio d'Amato</i>	
PART IV COMPARISON OF TOOLS USING A SET OF SPECIFIC CRITERIA	259
12 Technical Comparison of the Methods Including Formal Testing of Accuracy and Other Modelling Performance Using Own Data Sets and Multiple Regression Analysis	261
<i>Richard A. Borst, François Des Rosiers, Małgorzata Renigier, Marco Aurélio Stumpf González, Tom Kauko and Maurizio d'Amato</i>	
13 Property Market Classification and Mass Appraisal Methodology	280
<i>Maurizio d'Amato and Tom Kauko</i>	
PART V CONCLUSION	305
14 Automated Valuation Methods, Empirical Modelling of Value, and Systems for Market Analysis	307
<i>Tom Kauko</i>	
<i>Glossary</i>	321
<i>Index</i>	325