

# Contents

<b>1</b>	<b>Introduction to Policy-Making in the Digital Age</b>	<b>1</b>
	Marijn Janssen and Maria A. Wimmer	
<b>2</b>	<b>Educating Public Managers and Policy Analysts in an Era of Informatics</b>	<b>15</b>
	Christopher Koliba and Asim Zia	
<b>3</b>	<b>The Quality of Social Simulation: An Example from Research Policy Modelling</b>	<b>35</b>
	Petra Ahrweiler and Nigel Gilbert	
<b>4</b>	<b>Policy Making and Modelling in a Complex World</b>	<b>57</b>
	Wander Jager and Bruce Edmonds	
<b>5</b>	<b>From Building a Model to Adaptive Robust Decision Making Using Systems Modeling</b>	<b>75</b>
	Erik Pruyt	
<b>6</b>	<b>Features and Added Value of Simulation Models Using Different Modelling Approaches Supporting Policy-Making: A Comparative Analysis</b>	<b>95</b>
	Dragana Majstorovic, Maria A.Wimmer, Roy Lay-Yee, Peter Davis and Petra Ahrweiler	
<b>7</b>	<b>A Comparative Analysis of Tools and Technologies for Policy Making</b>	<b>125</b>
	Eleni Kamateri, Eleni Panopoulou, Efthimios Tambouris, Konstantinos Tarabanis, Adegboyega Ojo, Deirdre Lee and David Price	
<b>8</b>	<b>Value Sensitive Design of Complex Product Systems</b>	<b>157</b>
	Andreas Ligtoet, Geerten van de Kaa, Theo Fens, Cees van Beers, Paulier Herder and Jeroen van den Hoven	

<b>9</b>	<b>Stakeholder Engagement in Policy Development: Observations and Lessons from International Experience</b> .....	177
	Natalie Helbig, Sharon Dawes, Zamira Dzhusupova, Bram Klievink and Catherine Gerald Mkude	
<b>10</b>	<b>Values in Computational Models Revalued</b> .....	205
	Rebecca Moody and Lasse Gerrits	
<b>11</b>	<b>The Psychological Drivers of Bureaucracy: Protecting the Societal Goals of an Organization</b> .....	221
	Tjeerd C. Andringa	
<b>12</b>	<b>Active and Passive Crowdsourcing in Government</b> .....	261
	Euripidis Loukis and Yannis Charalabidis	
<b>13</b>	<b>Management of Complex Systems: Toward Agent-Based Gaming for Policy</b> .....	291
	Wander Jager and Gerben van der Vegt	
<b>14</b>	<b>The Role of Microsimulation in the Development of Public Policy</b> ...	305
	Roy Lay-Yee and Gerry Cotterell	
<b>15</b>	<b>Visual Decision Support for Policy Making: Advancing Policy Analysis with Visualization</b> .....	321
	Tobias Ruppert, Jens Dambruch, Michel Krämer, Tina Balke, Marco Gavanelli, Stefano Bragaglia, Federico Chesani, Michela Milano and Jörn Kohlhammer	
<b>16</b>	<b>Analysis of Five Policy Cases in the Field of Energy Policy</b> .....	355
	Dominik Bär, Maria A. Wimmer, Jozef Glova, Anastasia Papazafeiropoulou and Laurence Brooks	
<b>17</b>	<b>Challenges to Policy-Making in Developing Countries and the Roles of Emerging Tools, Methods and Instruments: Experiences from Saint Petersburg</b> .....	379
	Dmitrii Trutnev, Lyudmila Vidyasova and Andrei Chugunov	
<b>18</b>	<b>Sustainable Urban Development, Governance and Policy: A Comparative Overview of EU Policies and Projects</b> .....	393
	Diego Navarra and Simona Milio	
<b>19</b>	<b>eParticipation, Simulation Exercise and Leadership Training in Nigeria: Bridging the Digital Divide</b> .....	417
	Tanko Ahmed	

Policy Practice and Digital Science

Integrating Complex Systems, Social Simulation and

Public Administration in Policy Research

Janssen, M.; Wimmer, M.A.; Deljoo, A. (Eds.)

2015, XIII, 431 p. 55 illus., 34 illus. in color., Hardcover

ISBN: 978-3-319-12783-5