

# Contents

<b>Introduction</b> . . . . .	1
Enrica Amaturò and Biagio Aragona	
<b>Part I Epistemology</b>	
<b>On Data, Big Data and Social Research. Is It a Real Revolution?</b> . . . . .	9
Federico Neresini	
<b>New Data Science: The Sociological Point of View</b> . . . . .	17
Biagio Aragona	
<b>Data Revolutions in Sociology</b> . . . . .	25
Barbara Saracino	
<b>Blurry Boundaries: Internet, Big-New Data, and Mixed-Method Approach</b> . . . . .	35
Enrica Amaturò and Gabriella Punziano	
<b>Social Media and the Challenge of Big Data/Deep Data Approach</b> . . . . .	57
Giovanni Boccia Artieri	
<b>Governing by Data: Some Considerations on the Role of Learning Analytics in Education</b> . . . . .	67
Rosanna De Rosa	
<b>Part II Methods, Software and Data Architectures</b>	
<b>Multiple Correspondence K-Means: Simultaneous Versus Sequential Approach for Dimension Reduction and Clustering</b> . . . . .	81
Mario Fordellone and Maurizio Vichi	
<b>TaLTaC 3.0. A Multi-level Web Platform for Textual Big Data in the Social Sciences</b> . . . . .	97
Sergio Bolasco and Giovanni De Gasperis	

<b>Sparsity Data Reduction in Textual Network Analysis: An Exercise on Sustainability Meaning</b> . . . . .	105
Emma Zavarrone, Filomena Grassia, Maria Gabriella Grassia and Marina Marino	
<b>University of Bari’s Website Evaluation</b> . . . . .	121
Laura Antonucci, Marina Basile, Corrado Crocetta, Viviana D’Addosio, Francesco D. d’Ovidio and Domenico Viola	
<b>Advantages of Administrative Data: Three Analyses of Students’ Careers in Higher Education</b> . . . . .	131
Andrea Amico, Giampiero D’Alessandro and Alessandra Decataldo	
<b>Growth Curve Models to Detect Walking Impairment: The Case of InCHIANTI Study</b> . . . . .	141
Catia Monicolini and Carla Rampichini	
<b>Recurrence Analysis: Method and Applications</b> . . . . .	151
Maria Carmela Catone and Marisa Faggini	
<b>Part III On-Line Data Applications</b>	
<b>Big Data and Network Analysis: A Promising Integration for Decision-Making</b> . . . . .	165
Giovanni Giuffrida, Simona Gozzo, Francesco Mazzeo Rinaldi and Venera Tomaselli	
<b>White House Under Attack: Introducing Distributional Semantic Models for the Analysis of US Crisis Communication Strategies</b> . . . . .	175
Fabrizio Esposito, Estella Esposito and Pierpaolo Basile	
<b>#Theterrormood: Studying the World Mood After the Terror Attacks on Paris and Bruxelles</b> . . . . .	185
Rosanna Cataldo, Roberto Galasso, Maria Gabriella Grassia and Marina Marino	
<b>Learning Analytics in MOOCs: EMMA Case</b> . . . . .	193
Maka Eradze and Kairit Tammets	
<b>Tweet-Tales: Moods of Socio-Economic Crisis?</b> . . . . .	205
Grazia Biorci, Antonella Emina, Michelangelo Puliga, Lisa Sella and Gianna Vivaldo	
<b>The Sentiment of the Infosphere: A Sentiment Analysis Approach for the Big Conversation on the Net</b> . . . . .	215
Antonio Ruoto, Vito Santarcangelo, Davide Liga, Giuseppe Oddo, Massimiliano Giacalone and Eugenio Iorio	

**The Promises of Sociological Degrees: A Lexical Correspondence Analysis of Masters Syllabi** . . . . . 223  
 D. Borrelli, R. Serpieri, D. Taglietti and D. Trezza

**Part IV Off-Line Data Applications**

**Exploring Barriers in the Sustainable Microgeneration: Preliminary Insights Thought the PLS-PM Approach** . . . . . 239  
 Ivano Scotti and Dario Minervini

**Individual Disadvantage and Training Policies: The Construction of “Model-Based” Composite Indicators** . . . . . 249  
 Rosanna Cataldo, Maria Gabriella Grassia, Natale Carlo Lauro, Elena Ragazzi and Lisa Sella

**Measuring the Intangibles: Testing the Human Capital Theory Against the OECD Programme for the International Assessment of Adult Competencies** . . . . . 261  
 Federica Cornali

**Analysis of the Employment Transitions and Analysis of the Unemployment Risk in the Social Security Account Statements of the Patronato ACLI** . . . . . 269  
 D. Catania, A. Serini and G. Zucca

**Integrated Education Microdata to Support Statistics Production** . . . . . 283  
 Maria Carla Runci, Grazia Di Bella and Francesca Cuppone

**Latent Growth and Statistical Literacy** . . . . . 291  
 Emma Zavarrone



<http://www.springer.com/978-3-319-55476-1>

Data Science and Social Research  
Epistemology, Methods, Technology and Applications  
Lauro, N.C.; Amaturro, E.; Grassia, M.G.; Aragona, B.;  
Marino, M. (Eds.)  
2017, IX, 300 p. 77 illus., 51 illus. in color., Softcover  
ISBN: 978-3-319-55476-1