

Table of Contents

Preface.....	x
Chapter 1	
Clustering Via Centroids a Bag of Qualitative Values and Measuring its Inconsistency	1
<i>Adolfo Guzman-Arenas, Instituto Politécnico Nacional, México</i>	
<i>Alma-Delia Cuevas, Instituto Politécnico Nacional, México</i>	
Chapter 2	
Probabilistic Topic Discovery and Automatic Document Tagging.....	25
<i>Davide Magatti, Università degli Studi di Milano-Bicocca, Italy</i>	
<i>Fabio Stella, Università degli Studi di Milano-Bicocca, Italy</i>	
Chapter 3	
Smoothing Text Representation Models Based on Rough Set	50
<i>Zhihua Wei, Tongji University, China</i>	
<i>Duoqian Miao, Tongji University, China</i>	
<i>Ruizhi Wang, Tongji University, China</i>	
<i>Zhifei Zhang, Tongji University, China</i>	
Chapter 4	
Query Based Topic Modeling: An Information-Theoretic Framework for Semantic Analysis in Large-Scale Collections	69
<i>Eduardo H. Ramírez, Tecnológico de Monterrey, México</i>	
<i>Ramón F. Brena, Tecnológico de Monterrey, México</i>	
Chapter 5	
Combining Diverse Knowledge Based Features for Semantic Relatedness Measures	96
<i>Anna Lisa Gentile, University of Sheffield, UK</i>	
<i>Ziqi Zhang, University of Sheffield, UK</i>	
<i>Fabio Ciravegna, University of Sheffield, UK</i>	

Chapter 6	
Web Search Results Discovery by Multi-Granular Graphs	118
<i>Gloria Bordogna, CNR-IDPA, Italy</i>	
<i>Alessandro Campi, Politecnico di Milano, Italy</i>	
<i>Giuseppe Psaila, Università di Bergamo, Italy</i>	
<i>Stefania Ronchi, Politecnico di Milano, Italy</i>	
Chapter 7	
Learning Full-Sentence Co-Related Verb Argument Preferences from Web Corpora.....	137
<i>Hiram Calvo, Nara Inst. of Science & Technology, Japan</i>	
<i>Kentaro Inui, Tohoku University, Japan</i>	
<i>Yuji Matsumoto, Nara Inst. of Science & Technology, Japan</i>	
Chapter 8	
Evaluating and Enhancing Contextual Search with Semantic Similarity Data	163
<i>Ana G. Maguitman, Universidad Nacional del Sur, Argentina</i>	
<i>Carlos M. Lorenzetti, Universidad Nacional del Sur, Argentina</i>	
<i>Rocío L. Cecchini, Universidad Nacional del Sur, Argentina</i>	
Chapter 9	
Document Search Images in Text Collections for Restricted Domains on Websites.....	183
<i>Pavel Makagonov, Mixtec Technological University, Mexico</i>	
<i>Celia Bertha Reyes Espinoza, Mixtec Technological University, Mexico</i>	
<i>Grigori Sidorov, National Polytechnic Institute, Mexico</i>	
Chapter 10	
Maximal Sequential Patterns: A Tool for Quantitative Semantic in Text Analysis	204
<i>René Arnulfo García-Hernández, Autonomous University of the State of Mexico, Mexico</i>	
<i>J. Fco. Martínez-Trinidad, National Institute of Astrophysics, Mexico</i>	
<i>J. Ariel Carrasco-Ochoa, National Institute of Astrophysics, Mexico</i>	
Chapter 11	
Topic Discovery in Web Collections via Graph Local Clustering	228
<i>Sara Elena Garza Villarreal, Universidad Autónoma de Nuevo León, Mexico</i>	
<i>Ramón Brena, Tec de Monterrey, Mexico</i>	
Compilation of References	254
About the Contributors	272
Index.....	278