

NasruUah Memon • Jennifer Jie Xu •
David L. Hicks • Hsinchun Chen
Editors

Data Mining for Social Network Data

 Springer

Contents

1 Social Network Data Mining: Research Questions, Techniques, and Applications.	1
NasruUah Memon, Jennifer Jie Xu, David L. Hicks, and Hsinchun Chen	
2 Automatic Expansion of a Social Network Using Sentiment Analysis.	9
Hristo Tanev, Bruno Pouliquen, Vanni Zavarella, and Ralf Steinberger	
3 Automatic Mapping of Social Networks of Actors from Text Corpora: Time Series Analysis.	31
James A. Danowski and Noah Cepela	
4 A Social Network-Based Recommender System (SNRS).	47
Jianming He and Wesley W. Chu	
5 Network Analysis of US Air Transportation Network.	75
Guangying Hua, Yingjie Sun, and Dominique Haughton	
6 Identifying High-Status Nodes in Knowledge Networks.	91
Siddharth Kaza and Hsinchun Chen	
7 Modularity for Bipartite Networks.	109
Tsuyoshi Murata	
8 ONDOCS: Ordering Nodes to Detect Overlapping Community Structure.	125
Jiyang Chen, Osmar R. ZaYane, Jorg Sander, and Randy Goebel	
9 Framework for Fast Identification of Community Structures in Large-Scale Social Networks.	149
Yutaka I. Leon-Suematsu and Kikuo Yula	
10 Geographically Organized Small Communities and the Hardness of Clustering Social Networks.	177
Miklos Kurucz and Andras A. Benczdr	

**11 Integrating Genetic Algorithms and Fuzzy Logic for Web
Structure Optimization 201**
Illae Lee, Negar Koochakzadeh, Keivan Kianmehr,
Reda Alhajj, and Jon Rokne