## **Table of Contents**

Terrorism Informatics and Crime Analysis	
Combined Detection Model for Criminal Network Detection Fatih Ozgul, Zeki Erdem, Chris Bowerman, and Julian Bondy	1
An Association Model for Implicit Crime Link Analysis Jau-Hwang Wang and Chien-Lung Lin	15
Design and Deployment of a National Detecting Stolen Vehicles  Network System	22
Fighting Cybercrime: A KM Perspective	28
Transportation Infrastructure Security	
Trajectory Similarity of Network Constrained Moving Objects and Applications to Traffic Security	31
An Emergent Traffic Messaging Service Using Wireless Technology Patrick S. Chen, Yong-Kuei Liu, and Chia-Shih Hsu	44
Information Access and Security	
A Model for Detecting "Global Footprint Anomalies" in a Grid Environment	52
Secure Anonymous Routing for MANETs Using Distributed Dynamic Random Path Selection	65
MAD-IDS: Novel Intrusion Detection System Using Mobile Agents and Data Mining Approaches	73



## **Data Encryption**

Fuzzy Biometric Signcryption Scheme with Bilinear Pairings in the Standard Model	77
Mingwu Zhang, Bo Yang, Tsuyoshi Takagi, Yanping Shen, and Wenzheng Zhang	
Key Independent Decryption of Graphically Encrypted Images $Ram\ Ratan$	88
Towards Confidentiality of ID-Based Signcryption Schemes under Without Random Oracle Model	98
JPEG Steganalysis Using HBCL Statistics and FR Index	105
Data and Text Mining	
Text Mining Technique for Chinese Written Judgment of Criminal Case	113
Exploration of Document Relation Quality with Consideration of Term Representation Basis, Term Weighting and Association Measure	126
Identifying Controversial Issues and Their Sub-topics in News Articles	140
Yoonjung Choi, Yuchul Jung, and Sung-Hyon Myaeng	
Efficient Privacy Preserving K-Means Clustering	154
A Fuzzy Threshold Based Modified Clustering Algorithm for Natural Data Exploration	167
Author Index	173