

Social and Political Implications of Data Mining: Knowledge Management in E-Government

Hakikur Rahman
SDNF, Bangladesh

Information Science
REFERENCE

INFORMATION SCIENCE REFERENCE

Hershey • New York

Table of Contents

Foreword	xvi
Preface	xvii
Acknowledgment	xxvi

Section I **Content Management and Knowledge Management**

Chapter I A Conceptual Framework for Data Mining and Knowledge Management.....	1
<i>Shamsul I. Chowdhury, Roosevelt University, USA</i>	
Chapter II A Framework for Knowledge Management in E-Government.....	16
<i>Kostas Metaxiotis, National Technical University of Athens, Greece</i>	
Chapter III E-Government Knowledge Management (KM) and Data Mining Challenges: Past, Present, and Future.....	28
<i>LuAnn Bean, Florida Institute of Technology, USA</i>	
<i>Deborah S. Carstens, Florida Institute of Technology, USA</i>	
<i>Judith Barlow, Florida Institute of Technology, USA</i>	
Chapter IV Knowledge Management Portals for Empowering Citizens and Societies	42
<i>Hakikur Rahman, SDNF, Bangladesh</i>	

Section II

Universal Access to Social Services

Chapter V

Better Knowledge for Better Health Services: Discovering Guideline Compliance..... 65

Stefano De Luca, Evodevo s.r.l., Italy

Enrico Memo, Ca' Foscari University, Italy

Chapter VI

Governance in European Hospitals: Analysing Governance Practices Using
Data Mining and Information Visualisation..... 88

Kristof Eeckloo, Centre for Health Services and Nursing Research, Belgium

Luc Delesie, Centre for Health Services and Nursing Research, Belgium

Arthur Vleugels, Centre for Health Services and Nursing Research, Belgium

Chapter VII

A Data Mining Approach to Advance Knowledge in Public Government:
Profiling Households..... 106

Paola Annoni, University of Milan, Italy

Pieralda Ferrari, University of Milan, Italy

Silvia Salini, University of Milan, Italy

Chapter VIII

Electronic Payment Systems in Developing Countries for Improved Governance System..... 126

Hakikur Rahman, SDFN, Bangladesh

Section III

Security, Safety, and Trust

Chapter IX

Data Mining as Part of Intelligence-Led Policing in the Finnish Police 151

Arla Juntunen, University of Helsinki, Finland

Chapter X

Current Issues and Future Analysis in Text Mining for Information Security Applications 165

Shuting Xu, Virginia State University, USA

Xin Luo, Virginia State University, USA

Chapter XI

Data Mining in Aviation Safety Data Analysis..... 178

Reima Suomi, Turku School of Economics, Finland

Olli Sjöblom, Turku School of Economics, Finland

Section IV
E-Governance and Artificial Intelligence

Chapter XII

- Applying Dynamic Causal Mining in E-Government Modeling..... 200
Yi Wang, Nottingham Trent University, UK

Chapter XIII

- Ontology-Based Management of e-Government Knowledge 221
Yannis Charalabidis, National Technical University of Athens, Greece
Kostas Metaxiotis, National Technical University of Athens, Greece

Chapter XIV

- Data Mining in Decision Support for Bioenergy Production 235
Nasser Ayoub, Tokyo Institute of Technology, Japan and Helwan University, Egypt
Yuji Naka, Tokyo Institute of Technology, Japan

Section V
Virtual Communities and Cases

Chapter XV

- Virtual Assistants for E-Government Interaction..... 255
Rodrigo Sandoval-Almazán, Autonomous University of the State of Mexico, Mexico
Mario Arturo Gutiérrez Alonso, Tecnológico de Monterrey Campus Morelia, Mexico

Chapter XVI

- Digital Divide and its Implication on Malaysian E-Government: Policy Initiatives..... 267
Abdul Raufu Ambali, University Technology MARA (UiTM), Malaysia

Chapter XVII

- Digitization Initiatives and Knowledge Management: Institutionalization of
E-Governance in Teaching, Learning and Research in East African Universities..... 288
A. M. Chaila, Sokoine University of Agriculture, Tanzania
F. W. Dulle, Sokoine University of Agriculture, Tanzania
A. W. Malekani, Sokoine University of Agriculture, Tanzania

Chapter XVIII

- Data Mining in Public Administration..... 302
John Wang, Montclair State University, USA
Xiaohua Hu, Drexel University, USA
Dan Zhu, Iowa State University, USA

Compilation of References	315
About the Contributors	341
Index.....	347