# **Table of Contents**

# Information Retrieval

Manhattan Based Hybrid Semantic Similarity Algorithm for Geospatial Ontologies	1
K. Saruladha, E. Thirumagal, J. Arthi, and G. Aghila	-
Bridging the Gap – Using External Knowledge Bases for Context-Aware Document Retrieval Benjamin Köhncke, Patrick Siehndel, and Wolf-Tilo Balke	11
TrieIR: Indexing and Retrieval Engine for Kannada Unicode Text Sumant Kulkarni and Srinath Srinivasa	21
Social Architecture for Digital Libraries and Information Policy	
Social Sustainability of Digital Libraries: A Research Framework Gobinda G. Chowdhury	25
Technological Devices in the Archives: A Policy Analysis Ciaran B. Trace and Unmil P. Karadkar	35
Digital Library Applications and Systems	
A New Plug-in System Supporting Very Large Digital Library Jin Wang, Yong Zhang, Yang Gao, and Chunxiao Xing	45
SRec: An Automatic Slide Capturing and Sharing System Zhenkun Zhou, Weiming Lu, and Wenjia An	53
Analyzing Trust-Based Mixing Patterns in Signed Networks Amit Singh Rathore, Mandar R. Mutalikdesai, and Sanket Patil	63
Data Mining for Digital Libraries	

A Cluster-Based Incremental Recommendation Algorithm on Stream	
Processing Architecture	73
Yuqi Wang, Yin Zhang, Yanfei Yin, Deng Yi, and Baogang Wei	

Large-Scale Experiments for Mathematical Document Classification	83
Simon Barthel, Sascha Tönnies, and Wolf-Tilo Balke	

#### **Collaboration and Communities**

Ranking Vicarious Learners in Research Collaboration Networks Andrea Tagarelli and Roberto Interdonato	93
An Architecture for Community-Based Curation and Presentation of Complex Digital Objects	103
Migrating Researcher from Local to Global: Using ORCID to Develop the TLIS VIVO with CLISA and Scopus Chao-chen Chen, Mike W. Ko, and Vincent Tsung-yeh Lee	113

## Analysing Social Media and Social Networks

The Common Man: An Examination of Content Creation and	
Information Dissemination on Twitter during the 2012 New Delhi	
Gang-Rape Protest	117
Saifuddin Ahmed and Kokil Jaidka	
Social Media as Online Information Grounds: A Preliminary Conceptual	
Framework	127
Bhuva Narayan, Bazilah A. Talip, Jason Watson, and Sylvia Edwards	
Influence Diffusion Detection Using Blogger's Influence Style Luke Kien-Weng Tan, Jin-Cheon Na, and Yin-Leng Theng	132

## Mobile Devices and Services

Use of Short Message Service (SMS) to Maximize the Library Usage:	
A Tale of Two Libraries	143
K. John Paul Anbu and Sridevi Jetty	

Playing Human Computation Games for Mobile Information Sharing:	
The Influence of Personality and Perceived Information Quality	147
Ei Pa Pa Pe-Than, Dion Hoe-Lian Goh, and Chei Sian Lee	

#### Metadata and Information Extraction

The Metadata Schema Design and Utility Architecture for Thai Lanna	
Inscription Collection	157
Churee Techawut, Papangkorn Inkeaw,	
Jeerayut Chaijaruwanich, and Trongjai Hutangkura	
RefConcile – Automated Online Reconciliation of Bibliographic	
References Guido Sautter, Klemens Böhm, and David King	161

Automatic Extraction of Event Information from Newspaper	171
Articles and Web Pages Hidetsugu Nanba, Ryuta Saito, Aya Ishino, and Toshiyuki Takezawa	171
Posters	
PuntTable: A Flexible Repository System for Digital Library Chao Lan, Tianyu Meng, Yong Zhang, and Chunxiao Xing	176
Scholarly Communication through Social Networks: A Study Samar Iqbal Bakhshi and Sridhar Gutam	178
The Evolution of Scholarly Digital Library Needs in an International Environment: Social Reference Management Systems and Qatar Hamed Alhoori, Carole Thompson, Richard Furuta, John Impagliazzo, Edward A. Fox, Mohammed Samaka, and Somaya Al-Maadeed	180
Implementation of Social Technologies in Community Networks: From Digital Curation Perspective Bhojaraju Gunjal, Ramesha, and Panorea Gaitanou	182
Every User His Visualization? User Performance and Preferences of Different Hierarchical Layouts Tanja Merčun and Maja Žumer	184
Hold, Touch and Read It: Border Interactions in Mobile Reading Environment	186
SIARD Archive Browser – The Components Arif Ur Rahman, Gabriel David, and Cristina Ribeiro	188
Towards the Electronic Publishing: An Assessment of Indian Publishing Media Vilas G. Jadhav	190
Novel Measures for Reciprocal Behavior and Equivalence in Signed Networks	193
Designing and Engineering the Digital Library Ontology Son Hoang Nguyen and Gobinda G. Chowdhury	195
Author Index	197

Table of Contents XVII