

Table of Contents

Cloud Computing

Secure Data Management in the Cloud	1
<i>Divyakant Agrawal, Amr El Abbadi, and Shiyuan Wang</i>	
Design and Implementation of the Workflow of an Academic Cloud	16
<i>Abhishek Gupta, Jatin Kumar, Daniel J. Mathew, Sorav Bansal, Subhashis Banerjee, and Huzur Saran</i>	
Identification of Potential Requirements of Master Data Management under Cloud Computing	26
<i>Shinji Kikuchi</i>	

Access to Information Resources

Hiding Data and Structure in Workflow Provenance	41
<i>Susan Davidson, Zhuowei Bao, and Sudeepa Roy</i>	

Information and Knowledge Management

Organic Databases	49
<i>H.V. Jagadish, Arnab Nandi, and Li Qian</i>	
Crowd-Based Data Sourcing (Abstract)	64
<i>Tova Milo</i>	
Behavior Capture with Acting Graph: A Knowledgebase for a Game AI System	68
<i>Maxim Mozgovoy and Iskander Umarov</i>	

Bio-medical Information Management

Personal Genomes: A New Frontier in Database Research	78
<i>Taro L. Saito</i>	
VisHue: Web Page Segmentation for an Improved Query Interface for MedlinePlus Medical Encyclopedia	89
<i>Aastha Madaan, Wanming Chu, and Subhash Bhalla</i>	

Dynamic Generation of Archetype-Based User Interfaces for Queries on
Electronic Health Record Databases 109
 *Shelly Sachdeva, Daigo Yaginuma, Wanming Chu, and
 Subhash Bhalla*

Information Extraction from Data Resources

Exploring OLAP Data with Parallel Dimension Views 126
 Mark Sifer

Improving the Performance of Recommender System by Exploiting the
Categories of Products..... 137
 *Mohak Sharma, P. Krishna Reddy, R. Uday Kiran, and
 T. Ragunathan*

Detecting Unexpected Correlation between a Current Topic and
Products from Buzz Marketing Sites..... 147
 Takako Hashimoto, Tetsuji Kuboyama, and Yukari Shiota

Understanding User Behavior through Summarization of Window
Transition Logs 162
 *Ryohei Saito, Tetsuji Kuboyama, Yuta Yamakawa, and
 Hiroshi Yasuda*

Information Filtering by Using Materialized Skyline View 179
 *Yasuhiko Morimoto, Md. Anisuzzaman Siddique, and
 Md. Shamsul Arefin*

Summary Extraction from Chinese Text for Data Archives of Online
News 190
 Nozomi Mikami and Lukáš Pichl

Geo-spatial Decision Making

GEOSO – A Geo-Social Model: From Real-World Co-occurrences to
Social Connections 203
 Huy Pham, Ling Hu, and Cyrus Shahabi

A Survey on LBS: System Architecture, Trends and Broad Research
Areas..... 223
 Shivendra Tiwari, Saroj Kaushik, Priti Jagwani, and Sunita Tiwari

Using Middleware as a Certifying Authority in LBS Applications..... 242
 Priti Jagwani, Shivendra Tiwari, and Saroj Kaushik

Networked Information Systems: Infrastructure

Cache Effect for Power Savings of Large Storage Systems with OLTP Applications.....	256
<i>Norifumi Nishikawa, Miyuki Nakano, and Masaru Kitsuregawa</i>	
Live BI: A Framework for Real Time Operations Management	270
<i>Chetan Gupta, Umeshwar Dayal, Song Wang, and Abhay Mehta</i>	
A Position Correction Method for RSSI Based Indoor-Localization	286
<i>Taishi Yoshida, Junbo Wang, and Zixue Cheng</i>	
A Novel Network Coding Scheme for Data Collection in WSNs with a Mobile BS	296
<i>Jie Li, Xiucui Ye, and Yusheng Ji</i>	
Deferred Maintenance of Indexes and of Materialized Views	312
<i>Harumi Kuno and Goetz Graefe</i>	
Adaptive Spatial Query Processing Based on Uncertain Location Information	324
<i>Yoshiharu Ishikawa</i>	
Author Index	325