

Topic-level Social Network Search



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Topic-Level Social Network Search

data mining
 E.g. data mining; machine learning; information retrieval

Topic: Data Mining / Association Rules | Database Systems / XML Data | Data Management / Heterogenous Database System | Web Databases / Specific Data | Rough Sets / Information retrieval system

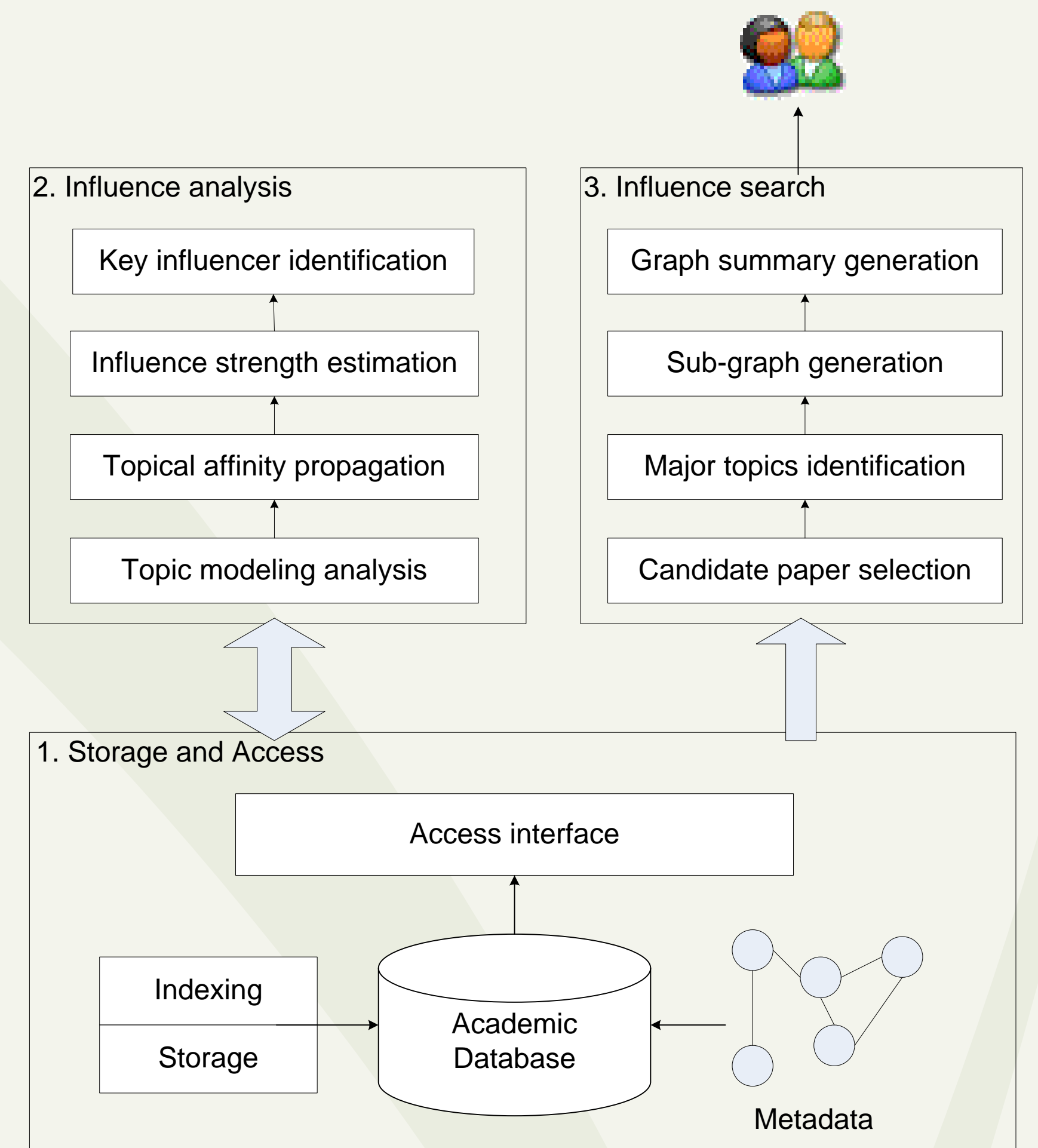
1 - 15 of 8504 experts for data mining. (0.000 seconds)

Jiawei Han
 Professor, Department of Computer Science, University of Illinois at Urbana-Champaign
 H-index: 82; Papers: 450; Citations: 41278
 Efficient Mining, Spatial Data Mining, Frequent Pattern Mining

Philip S. Yu (ALIAS: Philip Yu, Philip Shi-Lung Yu)
 Professor and Wester Chair in Information Technology, Department of Computer Science, University of Illinois Chicago, USA
 H-index: 72; Papers: 610; Citations: 23099
 Data Mining, Data Streams, Data Mining Techniques

Mohammed Javeed Zaki (ALIAS: Mohammed J. Zaki, Mohammed Zaki)
 Professor, Department of Computer Science, Lehigh University, Bethlehem, PA, USA
 H-index: 89; Papers: 167; Citations: 4248
 data mining, Web Usage Mining, Parallel Data Mining

Christos Faloutsos
 Professor, Dept. of Computer Science, Carnegie Mellon University
 H-index: 67; Papers: 309; Citations: 21148
 data mining, Data Visualization, Large Graphs



Ruud Bolle

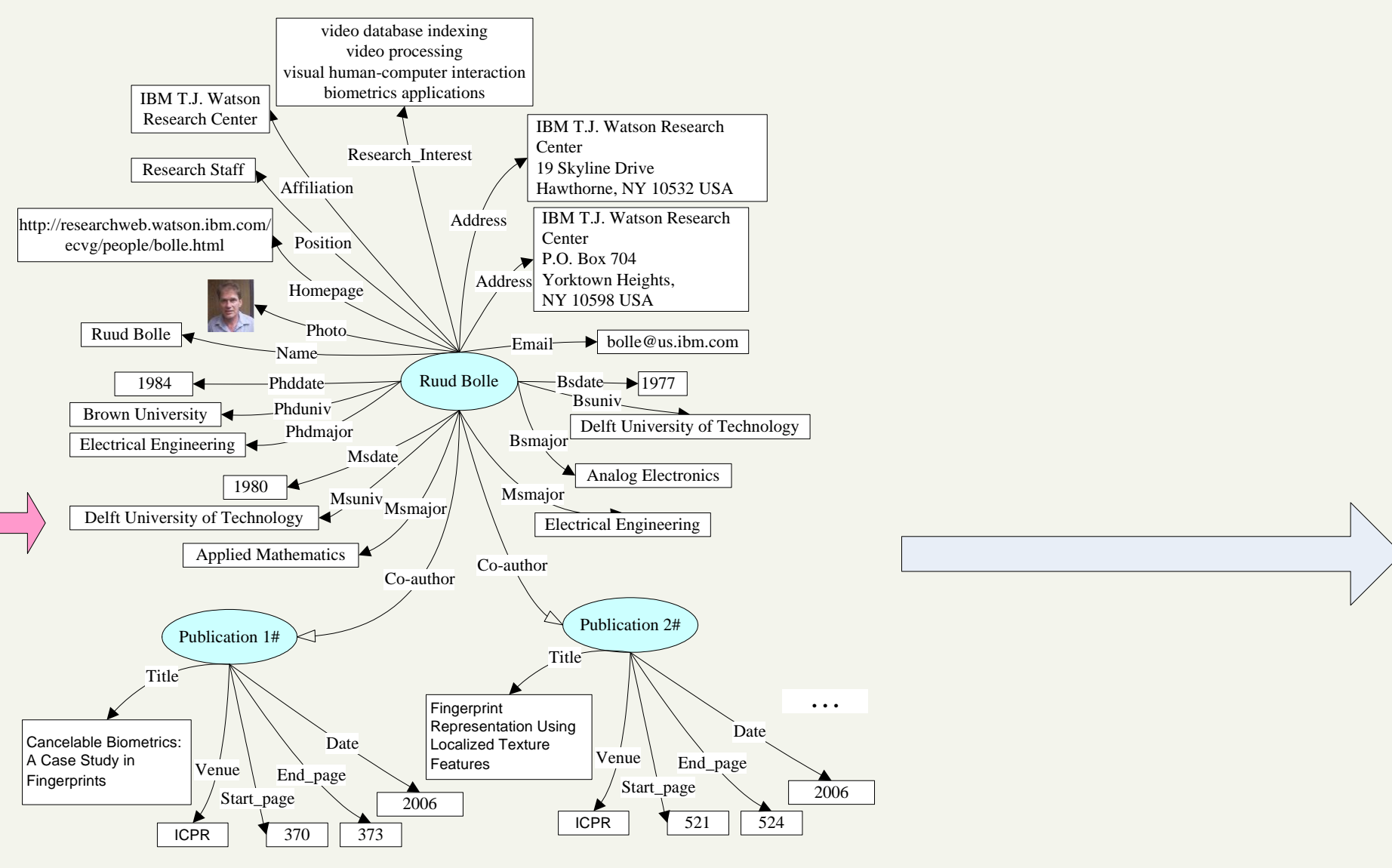
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Ruud M. Bolle was born in Voorburg, The Netherlands. He received the Bachelor's Degree in Analog Electronics in 1977 and the Master's Degree in Electrical Engineering in 1980, both from Delft University of Technology, Delft, The Netherlands. In 1983 he received the Master's Degree in Applied Mathematics and in 1984 the Ph.D. in Electrical Engineering from Brown University, Providence, Rhode Island. In 1984 he became a Research Staff Member at the IBM Thomas J. Watson Research Center in the Artificial Intelligence Department of the Computer Science Department. In 1988 he became manager of the newly formed Exploratory Computer Vision Group which is part of the Math Sciences Department.

Currently, his research interests are focused on video database indexing, video processing, visual human-computer interaction and biometrics applications.

Ruud M. Bolle is a Fellow of the IEEE and the AIPR. He is Area Editor of Computer Vision and Image Understanding and Associate Editor of Pattern Recognition. Ruud M. Bolle is a Member of the IBM Academy of Technology.

DBLP: Ruud Bolle	Year
50	2006
49	2006
48	2006
47	2005
46	2005

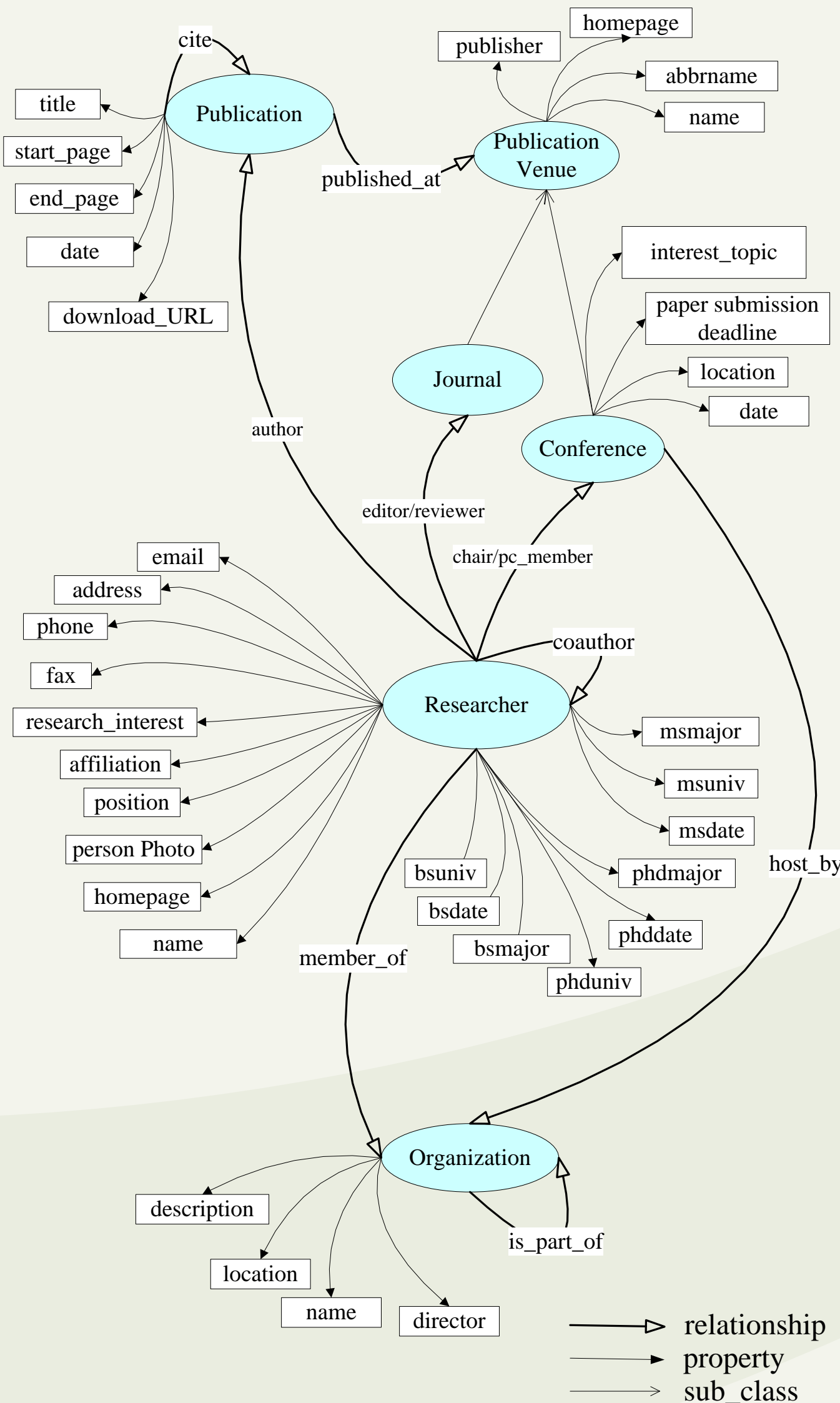


Social Network Extraction

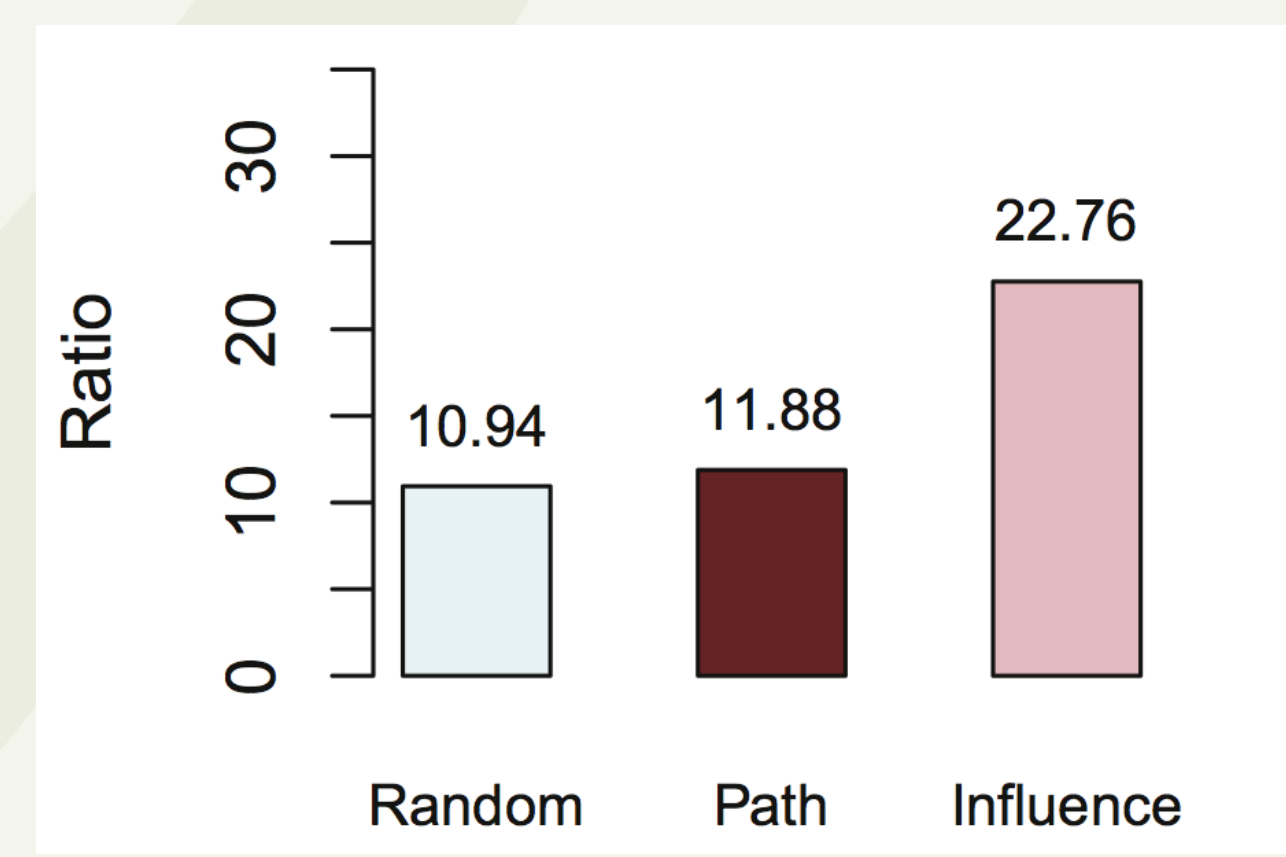
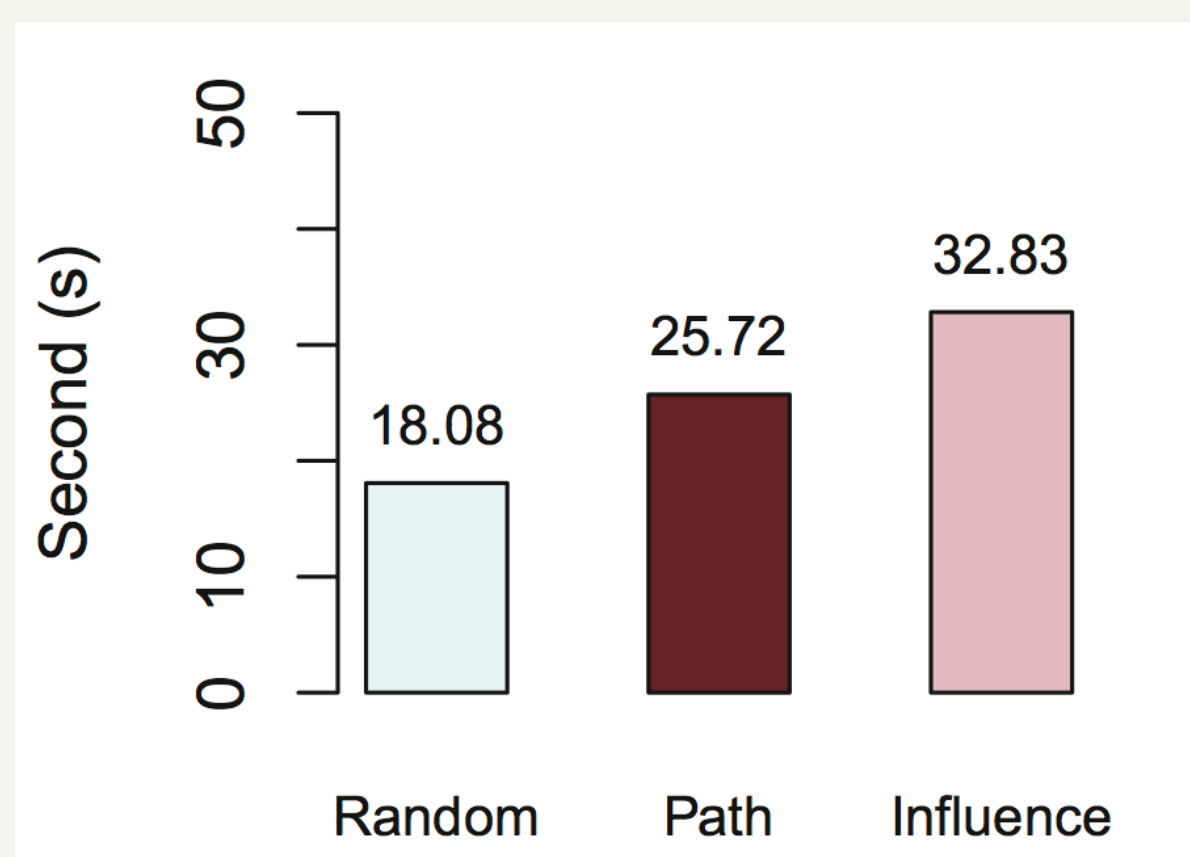
- Name Disambiguation
- Integration
- Profiling

Technique Issues

Metadata



Empirical Analysis



What is New?

- Present a novel influence analysis problem and introduce how to estimate the topic-level influence strength between nodes in a heterogeneous network. Based on the learned influence model, we identify the key influencer (the most influential nodes) on a specific node from the network. For instance, this demo will show you who are the most influential authors in "data mining", "database", or "machine learning" and who are mainly influenced by these key influencer.
- Provide a novel social network search function based on the learned influence model. For a given query, the system automatically identifies which topics are the most relevant and which nodes are the relevant to the query and the topic. Then a topic-based sub network is generated according to the learned influence model.
- Develop a web service interface for the influencebased analysis and search function, based on which the user can retrieve the topic-based sub network for a given query.