

Nachiketa Sahoo

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Education

PhD in Information Systems and Management Dec '09
Heinz College
Carnegie Mellon University, Pittsburgh, PA
Thesis *Three Essays on Enterprise Information Systems Mining for Business Intelligence*

MS in Knowledge Discovery and Data Mining May '06
Machine Learning Department, School of Computer Science
Carnegie Mellon University, Pittsburgh, PA
Thesis *Incremental hierarchical clustering of text documents*

BTech in Industrial Engineering May '01
Indian Institute of Technology, Kharagpur, India

Research Interest

Information Filtering, Recommender Systems, Networks Analysis

Teaching Interest

Applied Data Mining, Business Analytics, Text Data Mining, Statistics

Professional Experience

Visiting Assistant Professor in Information Systems
Tepper School of Business, Carnegie Mellon University, Pittsburgh, PA Sep '09–May '11

Research Intern IBM Almaden Research Center, San Jose, CA May–Aug '07

Research Assistant Carnegie Mellon University, Pittsburgh, PA Aug '03–Aug '09

Teaching Assistant Carnegie Mellon University, Pittsburgh, PA May '03–Aug '09

Software Engineer i2 Technologies, Bangalore, India Jun '01–Jul '02

Software Engineer Intern Patni Computer Systems, Mumbai, India May '00–Jul '00

Research and Publications

Journal Publications

“The Halo Effect in Multi-component Ratings and its Implications for Recommender Systems: The Case of Yahoo! Movies”, *Information Systems Research-accepted*, N. Sahoo, R. Krishnan, G. Duncan, J. Callan

Papers Under Review

“A Hidden Markov Model for Collaborative Filtering”, N. Sahoo, P. Singh, T. Mukhopadhyay

“Socio-temporal analysis of conversations in intra-organizational blogs”, N. Sahoo, R. Krishnan, C. Faloutsos

“Seeking Variety: A Dynamic Model of Employee Blog Reading Behavior”, P. Singh, N. Sahoo, T. Mukhopadhyay

Upcoming Conferences and Workshop Presentations

“Expertise Discovery from Blogs by Tensor Factorization”, *Conference on Information Systems and Technology (CIST '10)*, N. Sahoo, R. Krishnan

“Seeking Variety: A Dynamic Model of Employee Blog Reading Behavior”, *Workshop on Information Systems Economics (WISE '10)*, P. Singh, N. Sahoo, T. Mukhopadhyay

Prior Conferences and Workshop Presentations

“Modeling Blog Reading Dynamics”, *The Sixth Symposium on Statistical Challenges in Electronic Commerce Research (SCECR '10)*, P. Singh, N. Sahoo, T. Mukhopadhyay

“Modeling Blog Reading Dynamics”, *The 2010 Winter Conference on Business Intelligence*, T. Mukhopadhyay, N. Sahoo, P. Singh

“On analyzing multi-modal networks using Tensors”, *Workshop on Information in Networks (WIN'09)*, R. Krishnan, N.Sahoo

“Socio-temporal analysis of conversation themes in blogs by tensor factorization”, *The Eighteenth Annual Workshop on Information Technologies and Systems (WITS'08)*, N. Sahoo, R. Krishnan

“Link formation over intra-organizational blog network” *Fourth Symposium on Statistical Challenges in Electronic Commerce Research (SCECR'08)*, N. Sahoo, R. Krishnan, J. Callan

“Formation of Citation and Reply ties over intra-organizational blog network” *Conference on Information Systems and Technology (CIST'08)*, N. Sahoo, R. Krishnan, J. Callan

“Applications of Voting Theory to Information Mashups” *In Proceedings of the second IEEE International Conference on Semantic Computing (ICSC'08)*, A. Alba, V. Bhagwan, J. Grace, D. Gruhl, K. Haas, M. Nagarajan, J. Pieper, C. Robson, N. Sahoo

“Collaborative Filtering with Multi-component Rating for Recommender Systems.” *In Proceedings of the Sixteenth Annual Workshop on Information Technologies and Systems (WITS'06)*, N. Sahoo, R. Krishnan, G. Duncan, J. Callan

“Incremental Hierarchical Clustering of Text Documents.” *In Proceedings of the Fifteenth ACM International Conference on Information and Knowledge Management (CIKM'06)*, N. Sahoo, J. Callan, R. Krishnan, G. Duncan, R. Padman

Older Journal Publication

“An Approach to Multi-objective Facility Layout Planning.” *Industrial Engineering Journal, 2002, XXXI No. 4, 20–25*, N. Sahoo, T. Shekhar, S. Sahu

Invited Talks

“Multi-component Rating and Collaborative Filtering for Recommender Systems”, *INFORMS Annual Meeting Data Mining Session, 2008*, N. Sahoo, R. Krishnan, J. Callan

“Filling in rating components that the users left out”, *INFORMS Annual Meeting Data Mining Session, 2007*, N. Sahoo, R. Krishnan

Technical Report

“Artist Ranking through Analysis of Online Community Comments”, *IBM Research Technical Report*, J. Grace, D. Gruhl, K. Haas, M. Nagarajan, C. Robson, N. Sahoo

Working Papers

“Efficient Random-Walk-with-Restart Computation using Dynamic Partitioning of Large Sparse Graphs”, R. Sabhnani, N. Sahoo, A. Shanbhag

Reviewer

- Informs Journal on Computing, Management Science, Information Systems Research
- International Conference on Information Systems, ACM Conference on Electronic Commerce, ACM SIGIR Conference

Teaching

Management Information Systems (70451)

Fall '09, Spring '10, Fall '10

Grants and Awards

- Yahoo! faculty research and engagement unrestricted gift for the proposal titled “Strategies for Advertising on Social Networks”

Dec '09

- Grant supporting advanced research on privacy implication of public information from CYLAB—a multidisciplinary initiative at Carnegie Mellon University in affiliation with CERT and US-CERT for the protection of the national information infrastructure
- Doctoral fellowship at Carnegie Mellon University
- Award from the Sponsored Research and Industrial Consultancy unit at Indian Institute of Technology, Kharagpur

Sep '03–Aug '04

Aug '02–Apr '03

2000

Computer Skills

Programming Languages C, C++, Java, SQL
Operating Systems Linux, Unix, Windows
Software R, Matlab, UCINet

Professional Affiliation

- Association for Computing Machinery
- Association for Information Systems
- INFORMS

Other Biographical Information

Language English, Oriya, Hindi

Citizenship India

References

Dr Ramayya Krishnan
William W. and Ruth F. Cooper Professor of Management Science and Information Systems
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