Naama Kraus

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Summary

I am an applied researcher and an experienced SW engineer. My topics of interest include: information retrieval, distributed search, big data, clustering algorithms, recommendation algorithms, data-streams, data analysis, distributed systems.

Education

2013 – 2017   *Ph.D. in Computer Science*
Electrical Engineering Faculty, Technion – Israel Institute of Technology
Advisors: Prof. Idit Keidar and Dr. David Carmel
Research Topic: Effective Search in Distributed Environments
- Tail-tolerant distributed search
- Similarity search over endless data-streams
- Efficient similarity search in peer-to-peer networks

My research includes probabilistic modeling and analysis, implementation, and an empirical evaluation using real world datasets.

2009 – 2012   *M.Sc. in Computer Science*
Technion – Israel Institute of Technology
Advisors: Dr. Ziv Bar-Yossef and Prof. Shaul Markovitch
Research Topic: Context-Aware Query Auto-Completion
Final thesis grade: 92/100
GPA: 91.1/100

1993 – 1996   *B.Sc. in Computer Science and Mathematics (Cum Laude)*
Bar-Ilan University
GPA: 90.9/100

Employment

2009 - 2017   *Teaching assistant (TA) and project supervisor of undergraduate students*
Technion – Israel Institute of Technology
- Project topics: search, clustering, community detection, data analysis, recommendation algorithms
- Introduction to Search Engine Technology, TA in charge
- Introduction to Computer Science, C Programming, TA

1997 - 2009   *Research staff member at IBM Haifa Research Labs*
Selected projects:

- Knowledge Management in a Problem Determination Platform, project leader
- Customer Profiles and Product Recommendation
- Semantic Content-Based File System
- Fault Tolerance of Parallel Applications
- General Parallel File System (GPFS)

1996 - 1997   *Student position at Telrad, Israel*

Programming Languages and Technologies

Primary: Java, Junit, Matlab, Apache Lucene
Secondary: C, C++, Perl, Python, Spark, Hadoop

Scientific Publications

- Fishing in the Stream: Similarity Search over Endless Data, Naama Kraus, David Carmel, Idit Keidar, In the Proceedings of the 2017 IEEE International Conference on Big Data (Big Data'17)

- NearBucket-LSH: Efficient Similarity Search in P2P Networks, Naama Kraus, David Carmel, Idit Keidar, and Meni Orenbach, In the Proceedings of the 9th International Conference on Similarity Search and Applications 2016 (SISAP'16)

- Context-sensitive query auto-completion, Ziv Bar-Yossef and Naama Kraus, In the proceedings of the 20th International World Wide Web Conference 2011 (WWW'11)

- A Service Delivery Platform for Server Management Services, K. Christiance, et al., IBM Systems Journal on technology for global delivery of services 2009

- Integrating search and browse capabilities into file systems, B. Mandler, N. Kraus, A. Azagury, and M. Factor, Extended abstract for a technology demonstration, IEEE International Symposium on Mass Storage Systems 2005

Patents

- Exploration of item consumption by customers, Doron Cohen, Iris Eiron, David Konopnicki, Naama Kraus, June, 2 2011: US 20110131202

- Using Web Feed Information in Information Retrieval, Nadav Golbandi, Naama Kraus, December, 24 2009: US 20090319484

- Search Performance and User Interaction Monitoring of Search Engines, Einat Amitay, Naama Kraus, Ronny Lempel, Yael Petruschka, Aya Soffer, November, 15 2007: US 20070265999

- Content-based file system security, Michael Factor, Benjamin Mandler, Naama Kraus, February, 1 2007: US 20070027873
- Indexing and querying semi-structured documents, David Carmel, Naama Kraus, Benjamin Mandler, July, 1 2004: US 20040128615

Scholarships and Awards

- Hasso Plattner Institute (HPI) Scholarship for Doctoral Studies, 2013-2017
- Freud Prize for Women Doctoral Candidates in the Faculty of Electrical Engineering, Technion-Israel Institute of Technology, 2013
- IBM Research Division Award, Service Delivery Portal, 2008
- IBM Research Division Award, Parallel Checkpoint Restart, 2006
- Lady Edith Wolfson Award for Excellent Students, 1993

Spoken Languages

Hebrew: Mother tongue
English: Very good skills in reading, writing, listening, and speaking