

Mohammad Al Hasan

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Professional Preparation

Ph.D., Computer Science	2009	Rensselaer Polytechnic Institute, Troy, NY
MS, Computer Science	2002	University of Minnesota, Minneapolis, MN
BSc (Engg.), Computer Sc. & Engg.	1998	Bangladesh Univ. of Engg. & Tech. (BUET), Dhaka

Professional Experience

04/2016–Present	Associate Professor (with tenure), Computer Science, IUPUI, Indianapolis, IN
08/2010–03/2016	Assistant Professor (tenure-track), Computer Science, IUPUI, Indianapolis, IN
07/2009–08/2010	Senior Research Scientist, eBay Research Labs, San Jose, CA
05/2007–08/2007	Research Intern, IBM Almaden Research Center, San Jose, CA
05/2006–08/2006	Research Intern, IBM Almaden Research Center, San Jose, CA
08/2004–06/2009	Research/Teaching Assistant, Rensselaer Polytechnic Institute, Troy, NY
01/2003–07/2004	Lecturer, Computer Science, North South University (NSU), Dhaka, Bangladesh
09/1999–12/2002	Graduate Research/Teaching Assistant, University of Minnesota, Minneapolis, MN

Honors

- CareerBuilder Research Award, 2016
- School of Science Pre-Tenure Research Award, 2013
- NSF CAREER Award, 2012
- ACM SIGKDD Doctoral Dissertation Award, 2010
- Best Paper award, PAKDD Conference, 2009

Professional Achievements

- Total Publications: 65+
- Citation metrics (Google Scholar): total: 2250+; h-index: 23; i10-index: 39
- Students:
 - Graduated: PhD (2), MS (3)
 - Current: PhD (4), MS (1)
- Served as NSF panelist in IIS, BigData, SBIR and STTR
- Served as Program Committee member of all top ranked conferences in data mining (KDD, ICDM, CIKM, PKDD, SDM, Big Data), and artificial intelligence (AAAI)
- Served as Local Chair and Treasurer of CIKM 2016 conference
- Member: IEEE, ACM, ACM SIGKDD

Awarded Grants

- NSF, Title: CAREER: A novel framework for mining graph patterns in large biological and social networks, 03/01/2012 - 02/28/2017 (PI), Amount: US\$ 547,427

- NSF, Title: REU: Data Science of Risk and Human Activity, 06/01/2017 - 05/31/2020, (Co-PI), Amount: US\$ 287, 377
- CareerBuilder, Title: Career Path Trajectory Modeling for Career Recommendation using CareerBuilder Data, 06/01/2017 - 12/31/2017, (PI), Amount: US\$ 15, 000

Recent (2 Years) Publications

For complete list, see <http://dmgroup.cs.iupui.edu/publication.php>.

1. Tanay Kumar Saha, Aatur Katebi, Wajdi Dhifli, **Mohammad Al Hasan**. **Discovery of Functional Motifs from the Interface Region of Oligomeric Proteins using Frequent Subgraph Mining** *In IEEE/ACM Transactions on Computational Biology and Bioinformatics, IEEE, 2017.*
2. **Mohammad Al Hasan**, Vachik Dave. Triangle counting in large networks: a review *In Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery, Wiley Periodicals, Inc, 2017. (e1226)*
3. Baichuan Zhang, Vachik Dave, **Mohammad Al Hasan**. **Feature Selection for Classification under Anonymity Constraint** , *In Transactions on Data Privacy, Volume 10, 2017*
4. Aritra Mandal, **Mohammad Al Hasan**. **Distributed k-Core Decomposition Algorithm on Spark**, *In Proceedings of the 2017 IEEE International Conference on Big Data (Big Data), Boston, USA, 2017.*
5. Mansurul Alam Bhuiyan, **Mohammad Al Hasan**. **RAVEN: Web-based Smart Home Exploration System Through Interactive Pattern Discovery** , *In Proceedings of the 2017 IEEE International Conference on Big Data (Big Data), Boston, USA, 2017.*
6. Vachik Dave, Nesreen Ahmed, **Mohammad Al Hasan**. **E-CLoG: Counting Edge-Centric Local Graphlets** , *In Proceedings of the 2017 IEEE International Conference on Big Data (Big Data), Boston, USA, 2017.*
7. Tanay Kumar Saha, Shafiq Joty, Naeemul Hassan, **Mohammad Al Hasan**. **Learning Sentence Representation with Context**, *In Proceedings of the 26th ACM International on Conference on Information and Knowledge Management (CIKM), Singapore, 2017.*
8. Baichuan Zhang, **Mohammad Al Hasan**. **Name Disambiguation in Anonymized Graphs using Network Embedding**, *In Proc. of 26th ACM International Conference on Information and Knowledge Management (CIKM), Singapore, 2017*
9. Tanay Kumar Saha, Shafiq Joty, **Mohammad Al Hasan**. **CON-S2V: A Generic Framework for Incorporating Extra-Sentential Context into Sen2Vec** , *In Machine Learning and Knowledge Discovery in Databases-ECML PKDD 2017, Skopje, Macedonia, 2017*
10. Vachik Dave, **Mohammad Al Hasan** Chandan Reddy. **How Fast Will You Get a Response? Predicting Interval Time for Reciprocal Link Creation**, , *In The 11th International AAAI Conference on Web and Social Media (ICWSM), Montreal, Canada, 2017*
11. Mahmudur Rahman, **Mohammad Al Hasan**. **Link Prediction in Dynamic Networks Using Graphlet** , *In Machine Learning and Knowledge Discovery in Databases - European Conference, ECML PKDD 2016, Riva del Garda, Italy, September 19-23, 2016, Proceedings, Part I, 2016.*
12. Baichuan Zhang, Sutanay Choudhury, **Mohammad Al Hasan**, Xia Ning, Khushbu Agarwal, Sumit Purohit, Paola Gabriela Pesntez Cabrera. **Trust from the past: Bayesian Personalized Ranking based Link Prediction in Knowledge Graphs** , *In SDM Workshop on Mining Networks and Graphs (MNG 2016), 2016.*
13. Baichuan Zhang, Murat Dundar, **Mohammad Al Hasan**. **Bayesian Non-Exhaustive Classification - A Case Study: Online Name Disambiguation Using Temporal Record Streams** , *In Proc. of the 25th ACM International on Conference on Information and Knowledge Management (CIKM), Indianapolis,*

Indiana, 2016.

14. Wei Peng, Tianchong Gao, Devkishen Sisodia, Tanay Kumar Saha, Feng Li, **Mohammad A Hasan**, **ACTS: Extracting Android App Topological Signature through Graphlet Sampling** , *In Proceedings of the 2016 IEEE International Conference on Communications and Network Security, IEEE Computer Society, 2016.*
15. **Mohammad Al Hasan**, **Methods and Applications of Network Sampling** , *Chapter in Optimization Challenges in Complex, Networked and Risky Systems (Aparna Gupta, Agostino Capponi, eds.), 2016.*
16. Pin-Yu Chen, Baichuan Zhang, **Mohammad Al Hasan**, Alfred O Hero, **Incremental Method for Spectral Clustering of Increasing Orders** , *In KDD Workshop on Mining and Learning with Graphs (MLG 2016) (Selected for contributed talk (2 out of 29)), 2016.*
17. Tanay Kumar Saha, Ataur Katebi, **Mohammad Al Hasan**, **Discovery of Functional Motifs from the Interface Region of Oligomeric Proteins using Frequent Subgraph Mining Method** , *In 15th International Workshop on Data Mining in Bioinformatics (BIOKDD'16), 2016.*
18. Mansurul Alam Bhuiyan, **Mohammad Al Hasan**, **Interactive knowledge discovery from hidden data through sampling of frequent patterns** , *In Statistical Analysis and Data Mining: The ASA Data Science Journal, 2016.*
19. Mansurul Alam Bhuiyan, **Mohammad Al Hasan**, **PRIIME: A Generic Framework for Interactive Personalized Interesting Pattern Discovery** , *In Proceedings of the 2016 IEEE International Conference on Big Data (Big Data), IEEE Computer Society, 2016.*
20. Mansurul Alam Bhuiyan, **Mohammad Al Hasan**, **Waiting to be Sold: Prediction of Time-Dependent House Selling Probability** , *In IEEE DSAA: Third International Conference on Data Science and Advanced Analytics, 2016.*

Patents

- US patent No: 7881937, **Method for Analyzing Patent Claims**. Assignee, IBM Corporation
- US patent No: 8954422, **Query Suggestions for eCommerce Sites**, Assignee, eBay Inc
- **Probabilistic Optimization Of Related Searches**, Patent applied By eBay Inc

Synergistic Activities

1. NSF Panelist in IIS, BigData, SBIR and STTR division (2010, 2012, 2014, 2015, 2016, 2017)
2. Program Committee Co-chair, BigData Workshop on graph data management, and mining, (2014-2017); 10th Intl. Workshop in Data Mining in Bioinformatics (BIOKDD), 2011
3. Treasurer and Local Chair, CIKM 2016; Publicity Chair, SIAM Data Mining (SDM) 2014; Poster Chair, BigData 2016
4. Conference program Committees (2017): KDD, ICDM, CIKM, ECML-PKDD, BigData, AAAI
5. Conference program Committees (2016): CIKM, ECML-PKDD, ICDM, MLG, BigData, AAI
6. Conference program committees (2015 and earlier) Intl. Conference on Knowledge Discovery & Data Mining (SIGKDD); Workshop on Learning and Mining with Graphs (MLG); European Conf. on Machine Learning and Principles and Practice of Knowledge Discovery in Databases (ECML-PKDD); Pacific-Asia Conference on Knowledge Discover & Data Mining (PAKDD), ACM Intl. Conference on Information and Knowledge Management (CIKM); SIGKDD Doctoral Dissertation Award Committee
7. Journal Reviewer: Knowledge and Information Systems (KAIS); VLDB Journal; IEEE Transactions on Knowledge and Data Engg. (TKDE); ACM Transactions on Knowledge and Data Discovery (TKDD); Data Mining and Knowledge Discovery (DMKD); Journal of Machine Learning Research; IEEE Transactions on Neural Networks