

Biographical Sketch

Abdullah A. Mueen

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Professional Preparation

Dr. Mueen received B.Sc. degree in Computer Science and Engineering from the Bangladesh University of Engineering Technology, Dhaka, Bangladesh, in 2006 and Ph.D. degree in Computer Science from the University of California, Riverside, California in 2012.

Appointments

Dr. Mueen is currently an Assistant Professor of Computer Science at the University of New Mexico. He started his appointment in the fall of 2013. Earlier he worked as a scientist in the Cloud and Information Services Lab of Microsoft Corporation for 9 months and as a program manager in the Online Services Division (Bing) of Microsoft Corporation for 6 months in 2012-13. Dr. Mueen received his Ph.D. degree in computer science at the University of California, Riverside in March 2012. During his graduate study, he interned in various research labs including HP Labs at Palo Alto, California, in summer of 2011 and Microsoft Research in summers of 2009 and 2010.

Products

List of 5 Products Most Relevant to the Research Project:

1. Searching and Mining Trillions of Time Series Subsequences under Dynamic Time Warping Thanawin Rakthanmanon, Blaisie Campana, **Abdullah Mueen**, Gustavo Batista, M. Brandon Westover, Qiang Zhu, Jesin Zakaria, Eamonn Keogh, *In the Proceedings of ACM SIGKDD 2012*. pp. 262-270.
2. Time Series Join on Subsequence Correlation **Abdullah Mueen**, Hossein Hamooni, Trilce Estrada *To appear in the Proceedings of IEEE International Conference on Data Mining, ICDM 2014*.
3. Enumeration of Time Series Motifs of All Lengths **Abdullah Mueen** *In the Proceedings of IEEE International Conference on Data Mining, ICDM 2013*. Pp. 547-556.
4. Logical-Shapelets: An Expressive Primitive for Time Series Classification **Abdullah Mueen**, Eamonn Keogh, Neal Young, *In the Proceedings of ACM SIGKDD 2011*. pp. 1154-1162.
5. Accelerating Dynamic Time Warping Subsequence Search with GPUs and FPGAs Doruk Sart, **Abdullah Mueen**, Walid Najjar, Vit Niennattrakul, Eamonn Keogh, *In the Proceedings of IEEE ICDM 2010*. pp. 1001-1006

Other 5 Significant Products:

1. Exact Discovery of Time Series Motifs **Abdullah Mueen**, Eamonn Keogh, Qiang Zhu, Sydney Cash, Brandon Westover, *In the Proceedings of SIAM International Conference on Data Mining, pp. 473-484, SDM 2009*.
2. Finding Time Series Motifs in Disk-Resident Data **Abdullah Mueen**, Eamonn Keogh, Nima Bigdely-Shamlo, *In the Proceedings of IEEE International Conference on Data Mining, ICDM 2009*, pp. 367-376.
3. Online Discovery and Maintenance of Time Series Motif **Abdullah Mueen**, Eamonn Keogh, *In the Proceedings of ACM SIGKDD 2010*. pp. 1089-1098.
4. Clustering Time series using Unsupervised-Shapelets Jesin Zakaria, **Abdullah Mueen**, Eamonn Keogh, *In the Proceedings of IEEE International Conference on Data Mining, pp. 785-794, ICDM 2012*.
5. Experimental comparison of representation methods and distance measures for time series data. Xiaoyue Wang, **Abdullah Mueen**, Hui Ding, Goce Trajcevski, Peter Scheuermann, Eamonn J. Keogh, *Data Mining Knowledge Discovery* 26(2): 275-309 (2013), DMKD 2013.

Synergistic Activities

- Have been awarded the runner-up for the doctoral dissertation award in KDD 2012. Have won the best research paper award in KDD 2012. Have the most cited paper in SDM 2009
<http://arxiv.org/conference/sdm-3399.html>
- Served on the Program Committees of the ACM SIGKDD Conference on Knowledge Discovery and Data Mining (KDD 2012), IEEE International Conference on Data Mining (ICDM 2013-14), SIAM International Conference on Data Mining (SDM 2013-14), AAAI (2014) and ACM Conference on Information and Knowledge Management (CIKM 2013-14). Reviewed articles for several journals including Data Mining and Knowledge Discovery (DMKD), Knowledge and Information Systems (KAIS) and IEEE Transactions on Knowledge and Data Engineering (TKDE).
- Three patent applications are on file. Each of the patents is on time series mining and very relevant to this project.
- Made **all work** publicly available at <http://www.cs.unm.edu/~mueen/publication.html>.

Collaborators and Other Affiliations

Scientists Collaborated with Abdullah Mueen in the last 48 months:

Keogh E, Ph.D. (University of California, Riverside), Tsotras V, Ph.D. (University of California, Riverside), Naryanan V, Ph.D. (Microsoft Corporation), Najjar W, Ph.D., (University of California, Riverside), Nath S, Ph.D. (Microsoft Research), Young N, Ph.D. (University of California, Riverside), Keerthi S, Ph.D. (Microsoft Corporation), Liu J, Ph.D. (Microsoft Research), Sud A, Ph.D. (Microsoft Corporation), M. Brandon Westover, M.D., Ph.D. (Harvard-MIT Health Sciences and Technology), Cash S, M.D., Ph.D., (Harvard Medical School, Massachusetts General Hospital), Batista G, Ph.D. (University of São Paulo), Rakthanmanon T, Ph.D. (Kasetsart University, Thailand). Kumar V. Ph.D. (University of Minnesota), Estrada T. Ph.D. (University of New Mexico), Crandall J. Ph.D. (University of New Mexico), Arnold D. Ph.D. (University of New Mexico), Bilson Camapana Ph.D. (Google), Mahbub Hasan (UC Riverside), Xi Chen (University of Minnesota), Cavanagh J, Ph.D. (University of New Mexico), Roya Ensafi (UNM)

Ph.D. Thesis Advisor: Eamonn J. Keogh, University of California, Riverside, California.