Hasan Kurban, Ph.D.

Curriculum Vitae

Electrical and Computer Engineering, Texas A&M University at Qatar
Office 246S, Education City, PO Box 23874, Doha, Qatar

⋈ hkurban@hbku.edu.qa ⋈ hasan.kurban@qatar.tamu.edu ⋈ hasan.kurban@tamu.edu
⋈ hakurban@iu.edu

Profiles: Texas A&M University at Qatar Texas A&M University Indina University Bloomington Www.hasankurban.com

Research Interests & Education

Research Interests: AI, Software Engineering, Computational Science, Data Science, Big Data

Ph.D. in Computer Science, Minor in Statistics

Indiana University, Bloomington, IN, USA

Advisor: Prof. Mehmet M. Dalkilic

Committee Members: Prof. Predrag Radivojac, Prof. Michael W. Trosset, Prof. Yuzhen Ye

Dissertation Title: A Novel Approach to Optimization of Iterative Machine Learning Algorithms: Over Heap

Completed: September 2017

Structure

Publications

Peer-Reviewed Journal Articles

- 34. **Hasan Kurban**, Fahrettin Ay, Selcuk Temiz, Mehmet Tuncel, Parichit Sharma, Salim Erol, Iqra Yakup, Mustafa Kurban, Mehmet M. Dalkilic. "Comprehensive Regression Analysis for Impedance Spectroscopy Prediction Over Extra-Low-Frequency Region," *Energy Storage Materials*, 2024. (under-review)
- 33. Can Polat, Mustafa Kurban, **Hasan Kurban**. "Multimodal Neural Network-Based Predictive Modeling of Nanoparticle Properties from Pure Compounds," *Machine Learning: Science and Technology*, 2024. (under-review)
- 32. Marcin S. Malec, Parichit Sharma, **Hasan Kurban**, and Mehmet Dalkilic. "ccImpute: An R Package for Fast & Accurate Imputation of Dropouts in Single-Cell RNA-Seq Data," *Journal of Machine Learning Research*, 2024. (under-review)
- 31. Samir Abdaljalil, **Hasan Kurban**, Rachad Atat, Erchin Serpedin, Khalid Qaraqe. "Deep Temporal & Structural Embeddings for Unsupervised Anomaly Detection in Dynamic Graphs," *IEEE Transactions on Neural Networks and Learning Systems*, 2024. (under-review)
- 30. Can Polat, **Hasan Kurban**, Mustafa Kurban. "Text-To-Energy: Accelerating Quantum Chemistry Calculations through Text-to-Vector Encoding and Orbital-Aware Multilayer Perceptron," *Scientific Reports*, 2024. (under-review)
- 29. Mert Onur Cakiroglu, **Hasan Kurban**, Elham Khorasani Buxton, and Mehmet Dalkilic. "Novel De Bruijn Graph Embeddings for Enhanced Time Series Forecasting," *Machine Learning*, 2024. (under-review)
- 28. Parichit Sharma, Sarthak Mishra, **Hasan Kurban**, Mehmet M. Dalkilic. "*p*-ClustVal: Enhancing Clustering and Valuation with a Novel *p*-adic Approach in High-Dimensional Genomics Data," *International Journal of Data Science and Analytics*, 2024. (under-review)
- 27. Can Polat, **Hasan Kurban**, Mustafa Kurban. "QuantumShellNet: Ground-State Eigenvalue Prediction of Materials Using Electronic Shell Structures and Fermionic Properties via Convolutions," *Computational Materials Science*, 2024. (under-review)

- Parichit Sharma, Hasan Kurban, Marcin Malec, Oguzhan Kulekci, Mehmet Dalkilic. "Geometric-k-means: An Unbounded, Accurate and Energy-Efficient k-means," Machine Learning, 2024. (underreview)
- 25. Fahrettin Ay, Saud Althunibat, Khalid Qaraqe, **Hasan Kurban**. "A Noise-Adaptive Machine Learning Framework for Optimizing User Grouping in Dynamic IM-OFDMA Systems," *IEEE Transactions on Communications*, 2024. (under-review)
- 24. Madhavan Kalkunte Ramachandra, **Hasan Kurban**, M. Oguzhan Kulekci and Mehmet M. Dalkilic. "ti*knn*: Telescope Indexing for *k*-Nearest Neighbor Search Algorithms over High Dimensional Data & Large Data Sets," *Data Mining and Knowledge Discovery*, 2024. (under-review)
- 23. Mert Onur Cakiroglu, **Hasan Kurban**, Khalid Qaraqe, Lilia Aljihmani, Goran Petrovski, Mehmet M. Dalkilic. "A Reinforcement Learning Approach to Effective Forecasting of Pediatric Hypoglycemia in Diabetes I Patients: an extended de Bruijn Graph," *Scientific Reports*, 2024. (under-review)
- Mustafa Kurban, Can Polat, Erchin Serpedin, Hasan Kurban. "Enhancing the electronic properties of TiO₂ nanoparticles through carbon doping: An integrated DFTB and computer vision approach," Computational Materials Science, 244, 113248, 2024.
- 21. Mert Onur Cakiroglu, **Hasan Kurban**, Parichit Sharma, M. Oguzhan Kulekci, Elham Khorasani Buxton, Maryam Raeeszadeh-Sarmazdeh and Mehmet Dalkilic. "An Extended de Bruijn Graph for Feature Engineering Over Biological Sequential Data," *Machine Learning: Science and Technology*, 5(3), 035020, 2024.
- Selcuk Temiz, Salim Erol, Hasan Kurban, and Mehmet M. Dalkilic. "State of Charge and Temperature-Dependent Impedance Spectra Regeneration of Lithium-Ion Battery by Duplex Learning Modeling," Journal of Energy Storage, 64, 107085, 2023.
- 19. **Hasan Kurban**, Mustafa Kurban, and Mehmet M. Dalkilic. "Rapidly Predicting Kohn-Sham Total Energy Using Data-centric AI," *Nature Scientific Reports*, vol.12, pp.1-14, 2022.
- 18. Selcuk Temiz, **Hasan Kurban**, Salim Erol, and Mehmet M. Dalkilic. "Data on Machine Learning Regenerated Lithium-ion Battery Impedance," *Data in Brief*, 108698, 2022.
- 17. Marcin S. Malec, **Hasan Kurban**, and Mehmet M. Dalkilic. "ccImpute: an Accurate and Scalable Consensus Clustering Based Algorithm to Impute Dropout Events in Single-Cell RNA-seq Data," *BMC Methods*, vol.23, pp. 1-17, 2022.
- 16. Selcuk Temiz, **Hasan Kurban**, Salim Erol, and Mehmet M. Dalkilic. "Regeneration of Lithium-ion Battery Impedance Using a Novel Machine Learning Framework and Minimal Empirical Data," *Journal of Energy Storage*, 52, 105022(1-34), 2022.
- 15. Parichit Sharma, **Hasan Kurban**, and Mehmet M. Dalkilic. "DCEM: An R package for Clustering Big Data via Data-centric Modification of Expectation Maximization," *SoftwareX*, 17, 100944, 2022.
- 14. **Hasan Kurban** and Mustafa Kurban. "Building Machine Learning Systems for Multi-Atoms Structures: CH3NH3PbI3 Perovskite Nanoparticles," *Computational Materials Science*, 195, 110490(1-9), 2021.
- 13. **Hasan Kurban**, Mustafa Kurban, Parichit Sharma, and Mehmet M. Dalkilic. "Predicting Atom Types of Anatase TiO2 Nanoparticles with Machine Learning," *Key Engineering Materials*, vol.880, pp.89-94, 2021.
- 12. **Hasan Kurban** and Mustafa Kurban. "Rare-class Learning over Mg-Doped ZnO Nanoparticles," *Chemical Physics*, vol.546, 11159(1-9), 2021.
- 11. Iskender Muz, **Hasan Kurban**, and Mustafa Kurban. "A DFT Study on Stability and Electronic Structure of AlN Nanotubes," *Materials Today Communications*, 26, 102118(1-7), 2021.

- 10. **Hasan Kurban**, Sholeh Alaei, and Mustafa Kurban. "Effect of Mg content on Electronic Structure, Optical and Structural Properties of Amorphous ZnO Nanoparticles: A DFTB Study," *Journal of Non-Crystalline Solids*, 560, 120726(1-6), 2021.
- 9. **Hasan Kurban**. "Atom Classification with Machine Learning and Correlations among Physical Properties of ZnO Nanoparticle," *Chemical Physics*, vol.545, 111143(1-9), 2021.
- 8. **Hasan Kurban**. "Measuring the Proximity of Medical Treatment Areas with Text Mining," *European Journal of Science and Technology*, no.21, pp. 518-526, 2021.
- 7. **Hasan Kurban**. "Practical Data Science: Examining the Correlations between Structural and Electronic Properties of Different Phases of TiO2 Nanoparticles," *Journal of Selcuk-Technic*, 4(19), 1-9, 2020.
- 6. **Hasan Kurban**, Mehmet Dalkilic, Selcuk Temiz, and Mustafa Kurban. "Tailoring the Structural Properties and Electronic Structure of Anatase, Brookite and Rutile Phase TiO2 Nanoparticles: DFTB Calculations," *Computational Materials Science*, 183, 109843(1-9), 2020.
- 5. **Hasan Kurban** and Mustafa Kurban. "Study of Structural and Optoelectronic Properties of Hexagonal ZnO Nanoparticles," *Bilecik Seyh Edebali University Journal of Science*, 6(2), 124-131, 2019.
- 4. Mustafa Kurban, **Hasan Kurban**, and Mehmet M. Dalkilic. "Controlling Structural and Electronic Properties of ZnO NPs," *Bilge International Journal of Science and Technology Research*, 3(0), 35-39, 2019.
- 3. **Hasan Kurban**, Mustafa Kurban, and Mehmet M. Dalkilic. "Density-functional Tight-binding Approach for the Structural Analysis and Electronic Structure of Copper Hydride Metallic Nanoparticles," *Materials Today Communications*, 21, 100648(1-7), 2019.
- 2. **Hasan Kurban**, Mark Jenne, and Mehmet M. Dalkilic. "Using Data to Build a Better EM: EM* for Big Data," *International Journal of Data Science and Analytics*, vol.4, no.2, pp. 83-97, 2017.
- 1. Mark Jenne, Owen Boberg, **Hasan Kurban**, and Mehmet M. Dalkilic. "Studying the Milky Way Galaxy using ParaHeap-k, a parallel heap-based k-means," *IEEE Computer*, vol.47, no.9, pp.26-33, 2014.

Peer-Reviewed Conference Proceedings

16. PlayoffsNet: Enhancing NBA Playoffs Prediction Through Engineered Features and Explainable Deep Learning

Ganesh Arkanath, Hasan Kurban, Mehmet M. Dalkilic

31st ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (KDD), Toronto, Canada, 2025. (under-review)

15. What Data-Centric AI Can Do For k-means: a Faster, Robust k-means-d

Parichit Sharma, Hasan Kurban and Mehmet M. Dalkilic

The 41st International Conference on Machine Learning (ICML), Data-centric Machine Learning Research (DMLR): Datasets for Foundation Models, Vienna, Austria, 2024.

14. **Novel NBA Fantasy League driven by Engineered Team Chemistry and Scaled Position Statistics**Ganesh Arkanath, Nishad Gupta, **Hasan Kurban**, Parichit Sharma, Madhavan K R, Elham Khorasani Buxton and Mehmet M. Dalkilic

IEEE International Conference on Big Data: Data-Centric AI, Sorrento, Italy, 2023

13. Are Sports Awards About Sports? Using AI to Find the Answer

Anshumaan Shankar, Gowtham Veerabadran Rajasekaran, Jacob Hendricks, Jared Andrew Schlak, Parichit Sharma, Madhavan K R, **Hasan Kurban** and Mehmet M. Dalkilic

European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases (ECML/PKDD): 10th Workshop on Machine Learning and Data Mining for Sports Analytics, Turin, Italy, 2023

12. AReS: An AutoML Regression Service for Data Analytics and Novel Data-centric Visualizations Josh Elms, Sam Johnson, Madhavan K R, Keerthana Sugasi, Parichit Sharma, Hasan Kurban and Mehmet M. Dalkilic

29th ACM SIGKDD International Conference on Knowledge Discovery and Data Mining, Undergraduate Consortium (KDD-UC), Long Beach, CA, USA, 2023

11. Are They What They Claim: A Comprehensive Study of Ordinary Linear Regression Among the Top Machine Learning Libraries in Python

Sam Johnson, Josh Elms, Madhavan K R, Keerthana Sugasi, Parichit Sharma, **Hasan Kurban** and Mehmet M. Dalkilic

29th ACM SIGKDD International Conference on Knowledge Discovery and Data Mining, Undergraduate Consortium, (KDD-UC), Long Beach, CA, USA, 2023

10. Data Expressiveness and Its Use in Data-centric AI

Hasan Kurban, Parichit Sharma and Mehmet M. Dalkilic

Neurips Data-centric AI, 2021

 Size Dependent Electronic Structure and Structural Properties of Cupric Oxide (CuO) Nanoparticles Hasan Kurban, Mustafa Kurban and Mehmet M. Dalkilic NEM, 2019

8. Using Data Analytics to Optimize Public Transportation on a College Campus

Kurt Zimmer, **Hasan Kurban**, Mark Jenne, Logan Keating, Perry Maull, Mehmet M. Dalkilic *DSAA*, Turin, Italy, 2018

7. A novel approach to optimization of iterative machine learning algorithms: over heap structure Hasan Kurban, Mehmet M. Dalkilic

IEEE BigData, Boston, MA, USA, 2017

6. Improving Expectation Maximization Algorithm over Stellar Data

Hasan Kurban, Can Kockan, Mark Jenne and Mehmet M. Dalkilic

IEEE BigData: Workshop on Management, Search and Mining of Massive Repositories of Solar and Stellar Astronomy Data, Boston, MA, USA, 2017

5. Case study: clustering big stellar data with EM*

Hasan Kurban, Can Kockan, Mark Jenne and Mehmet M. Dalkilic

IEEE/ACM International Conference on Big Data Computing, Applications and Technologies (BDCAT), Austin, Texas, USA, 2017 (Best Poster Award)

4. Employing Software Engineering Principles to Enhance Management of Climatological Datasets for Coral Reef Analysis

Mark Jenne, Alex Zimmerman, **Hasan Kurban**, Claudia Johnson and Mehmet M. Dalkilic *The 6th International Workshop on Climate Informatics (CI)*, Colorado, USA, 2016

3. EM*: An EM algorithm for Big Data

Hasan Kurban, Mark Jenne and Mehmet M. Dalkilic

DSAA, Montreal, Canada, 2016

(Received Honorable Mention Paper Award)

2. Red-RF: Reduced Random Forest for big data using priority voting & dynamic data reduction Hussein Mohsen, Hasan Kurban, Kurt Zimmer, Mark Jenne, Mehmet M. Dalkilic *IEEE BigData Congress*, New York, USA, 2015

1. A new set of Random Forests with varying dynamic data reduction and voting techniques Hussein Mohsen, Hasan Kurban, Mark Jenne, Mehmet M. Dalkilic *DSAA*, Shanghai, China, 2014

Book Reviews

2. Mastering Social Media Mining with R by Sharan Kumar Ravindran, 2015

ISBN: 1784396311

1. Learning Data Mining with R by Bater Makhabel, 2015

ISBN: 1783982101

Honors and Awards

• \$10,000 Transformative Educational Experience (TEE) grant:

Awarded by the Center for Teaching and Learning (CTL) at Texas A&M University at Qatar, 2024. Transforming Software Engineering Education through Autograder and LLM Integration.

• \$10,000 Multiversity Academic Grant:

Awarded by Texas A&M University at Qatar, 2024. For a novel, multi-institutional Machine Learning for Engineers course.

• \$53,750 Faculty Resource Allocation:

Awarded by Texas A&M University at Qatar, 2023. Funds faculty teaching and research for three years.

• \$177,000 Research Impact Initiative:

Awarded by Texas A&M University at Qatar, 2023. Funds three-year projects leveraging AI, machine learning, and data analytics to enhance Qatar's sustainable energy, healthcare, and security.

• \$413,000 in Startup Research Funds:

Awarded by Texas Â&M University at Qatar, 2023. Support for initiating cutting-edge research projects for three years.

• Best Poster Award:

IEEE/ACM International Conference on Big Data Computing, Applications and Technologies, Austin, TX, 2017.

• Best Paper Award:

IEEE International Conference on Data Science and Advanced Analytics, Montreal, Canada, 2016.

• Turkish National Ministry of Education Scholarship:

Comprehensive funding for graduate studies at prestigious international institutions, 2009–2017.

• Nomination for Researcher of the Year:

Indiana University, Bloomington; Academic Years 2016–2017.

• Nomination for Associate Instructor of the Year:

Indiana University, Bloomington; Academic Years 2014–2015.

• Computer Science Graduate Fellowship:

Indiana University, Bloomington; August 2010–May 2012.

Service

University Committees

- Fall 2023, Texas A&M University at Qatar: ABET & Curriculum; Seminars & Invited Speakers; Budget; Teaching Load Model.
- Spring 2024, Texas A&M University at Qatar: ABET & Curriculum; Seminars & Invited Speakers; Budget.

Professional Engagements

Nature Scientific Reports	Editorial Board Member	2023 - Present
Manning	Technical Editor	2023 - Present
Pearson	Data Science Advisory Board Member	2023 - 2024

Organizing Conferences

- Organizing Committee Member of The 11th IEEE International Conference on Data Science and Advanced Analytics (DSAA'24): Special session on Advancing Materials Science through Data Science: Innovations, Applications, and Challenges.
- Program Committee Member of the 8th, 7th, and 6th Basarim High-Performance Computing Conference (Basarim'24, '22, '20): Engaged in reviewing and selecting high-quality submissions for presentations and publications.
- Session Chair of the International Joint Conference on Artificial Intelligence (IJCAI), Jeju, South Korea, 2024.
- Session Chair of the IEEE International Conference on Big Data, Sorrento, Italy, 2023.

Reviewer Contributions I have had the privilege of serving as a peer reviewer for a diverse array of prestigious journals across multiple disciplines, including but not limited to:

• Concurrency and Computation: Practice and Experience, Journal of Energy Storage, Information Sciences, Machine Learning: Science and Technology, eTransportation, Basarim.

Invited Talks

Conferences, Teaching & Hiring

- What Data-Centric AI Can Do For k-means: a Faster, Robust k-means-d
 The 41st International Conference on Machine Learning (ICML), Data-centric Machine Learning Research (DMLR): Datasets for Foundation Models, Vienna, Austria, 2024.
- Novel NBA Fantasy League driven by Engineered Team Chemistry and Scaled Position Statistics IEEE International Conference on Big Data: Data-Centric AI, Sorrento, Italy, December 15, 2023.
- Are Sports Awards About Sports? Using AI to Find the Answer
 ECML/PKDD: 10th Workshop on Machine Learning and Data Mining for Sports Analytics, Turin, Italy
 September 18, 2023.
- Data-Centric Machine Learning
 Various Universities (San Jose State, University of Houston, University of Montana, American University of the Middle East, United Arab Emirates University, University of Illinois, Zayed University, University of Missouri, University of South Carolina, etc.), 2022-2023.
- Clustering in Data Science
 Department of Statistics and Data Science, Northwestern University, Spring 2022.
- Comparison of Machine Learning Algorithms for CuO Nanoparticles
 4th International Conference on Physical Chemistry and Functional Materials (PCFM21), Elazığ, Turkey, April 8, 2021.
- Practical Data Science: Examining the Correlations between Structural and Electronic Properties of Different Phases of TiO2 Nanoparticles
 International Conference on Advanced Technologies (ICAT), Istanbul, Turkey, August 12, 2020.

- Predicting Atom Types of Anatase TiO2 Nanoparticles with Machine Learning
 International Conference on Engineering and Innovative Materials (ICEIM), Singapore, September 5, 2020.
- Introduction to Data Science
 Computer Engineering Department, Izmir Institute of Technology, Spring 2020.
- Clustering Techniques in Engineering
 Computer Engineering Department, Yildirim Beyazit University, Spring 2019.
- Data Science Fundamentals
 Informatics Department, Istanbul Technical University, Fall 2018.
- Using Data Analytics to Optimize Public Transportation on a College Campus
 IEEE International Conference on Data Science and Advanced Analytics (DSAA), Turin, Italy, October 4, 2018.
- Data Science and Big Data
 Eli Lilly and Company, Fall 2017.
- A Novel Approach to Optimization of Iterative Machine Learning Algorithms: Over Heap Structure IEEE International Conference on Big Data (Big Data), Boston, MA, USA, December 14, 2017.
- Improving Expectation Maximization Algorithm over Stellar Data, Workshop on Management
 Search and Mining of Massive Repositories of Solar and Stellar Astronomy Data, Boston, MA, USA, December 12, 2017.
- Case Study: Clustering Big Stellar Data with EM*
 IEEE/ACM International Conference on Big Data Computing, Applications and Technologies (BDCAT),
 Austin, Texas, USA, December 7, 2017.
- EM*: An EM Algorithm for Big Data
 IEEE International Conference on Data Science and Advanced Analytics (DSAA), Montreal, Canada,
 October 18, 2016.
- EM Algorithms for Clustering Computer Science Department, Indiana University, Fall 2016.
- Principal Component Analysis
 Computer Science Department, Indiana University, Fall 2016.
- A New Set of Random Forests with Varying Dynamic Data Reduction and Voting Techniques
 IEEE International Conference on Data Science and Advanced Analytics, Shanghai, China, October 30, 2014.
- Data Structures and Algorithms
 Computer Science Department, Indiana University, Spring 2014.
- Ensemble Models in Machine Learning
 Computer Science Department, Indiana University, Spring 2013.

Teaching Experience

Assistant Professor, College of Science and Engineering Hamad Bin Khalifa University, Doha, Qatar Adjunct Assistant Professor, Electrical and Computer Engineering Texas A&M University, Doha, Qatar

- ENGR 102: Engineering Lab I: Computation (Undergraduate) Fall 2024
- CPEG 110: Principles of Computing (Undergraduate) Fall 2024

Assistant Professor, Electrical and Computer Engineering Texas A&M University, Doha, Qatar

- ENGR 102: Engineering Lab I: Computation (Undergraduate) Spring 2024
- ECEN 210: Computer Programming and Algorithms (Undergraduate) Fall 2023
- ECEN 248: Introduction to Digital Systems Design (Undergraduate) Fall 2023

Visiting Associate Professor, Computer Science Department Indiana University, IN, USA

- CSCI-B 565: Data Mining (Graduate Level) Spring 2023
- CSCI-B 365: Introduction to Computers and Programming (Undergraduate) Spring 2023
- CSCI-C 241: Discrete Structures for Computer Science (Undergraduate) Fall 2022
- CSCI-C 241: Discrete Structures for Computer Science (Undergraduate) Summer 2022
- CSCI-B 365: Introduction to Data Analysis and Mining (Undergraduate) Spring 2022
- CSCI-B 505: Applied Algorithms (Graduate Level) Fall 2021

Dr. Lecturer, Computer Engineering Department Siirt University, Turkey

- BMH101: Algorithms and Programming I (Undergraduate) Spring 2019, Fall 2019
- BMH 406: Data Security (Undergraduate) Spring 2019
- BMH 104: Web and Internet Technologies (Undergraduate) Spring 2019
- BMH 205: Data Structures (Undergraduate) Fall 2018
- BMH 413: Artificial Neural Networks (Undergraduate) Fall 2018, Fall 2019
- BMH 103 Introduction to Computer Engineering (Undergraduate) Fall 2018, Fall 2019

Visiting Assistant Professor, Computer Science Department Indiana University, IN, USA

- CSCI-P 556: Applied Machine Learning (Graduate) Fall 2017
- INFO-I590: Online Applied Data Mining (Graduate) Fall 2017
- CSCI-B 351: Elements of Artificial Intelligence (Graduate) Spring 2018
- CSCI-B 365: Introduction to Data Analysis and Mining (Undergraduate) Spring 2018

Senior Associate Instructor, Computer Science Department Indiana University, IN, USA

- CSCI-B 565: Data Mining (Graduate Level) Fall 2016
- CSCI-B 351: Elements of Artificial Intelligence (Graduate) Spring 2017

Associate Instructor, Computer Science Department Indiana University, IN, USA

- CSCI-B 565: Data Mining (Graduate Level) Fall 2012, Fall 2013, Spring 2015, Spring 2016
- CSCI-B 555: Machine Learning (Graduate) Spring 2013
- CSCI-C 343: Data Structures (Undergraduate/Graduate) Spring 2014
- CSCI-B 365: Seminar in Computer Science: Data Mining (Undergraduate) Fall 2014, Fall 2015
- CSCI-B 609: Topics in Algorithms and Computing Theory (Graduate) Fall 2014
- INFO-I590: Real World Data Science (Graduate, Online) Summer 2016, Sponsored by Eli Lilly

Professional Experience

Hamad Bin Khalifa University, Doha, Qatar

Assistant Professor, College of Science and Engineering

Contact: Dr. Mounir Hamdi, mhamdi@hbku.edu.qa, Period: August 2024 - Present

Indiana University Bloomington, IN, USA

Adjunct Associate Professor, Computer Science Department and Data Science Program Contact: Dr. Yuzhen Ye, yye@indiana.edu, Period: June 2023 - Present

Texas A&M University, Doha, Qatar

Adjunct Assistant Professor, Electrical and Computer Engineering Department

Contact: Dr. Erchin Serpedin, eserpedin@qatar.tamu.edu, Period: August 2024 - Present

Texas A&M University, Doha, Qatar

Assistant Professor, Electrical and Computer Engineering Department

Contact: Dr. Erchin Serpedin, eserpedin@qatar.tamu.edu, Period: June 2023 - August 2024

Indiana University Bloomington, IN, USA

Visiting Associate Professor, Computer Science Department

Contact: Dr. Yuzhen Ye, yye@indiana.edu, Period: July 2021 - June 2023

Siirt University, Siirt, Turkey

Dr. Lecturer, Computer Engineering Department

Contact: Dr. Musa Atas, hakmesyo@gmail.com, Period: August 2018 - July 2021

Indiana University Bloomington, IN, USA

Visiting Assistant Professor, Computer Science Department

Contact: Dr. Amr Sabry, sabry@indiana.edu, Period: August 2017 - August 2018

Turbo Appeal, Chicago, IL, USA

Data Scientist

Contact: Scott Beason, scottmbeason@gmail.com, Period: January 2015 - December 2015

Indiana University Bloomington, IN, USA

Undergraduate Research Mentor

Contact: Dr. Lamara D. Warren, Idwarren@indiana.edu, Period: January 2015 - May 2017

Computer and Language Skills

• Programming Languages:

Python, C, C++, C#, Java

• Technical Software:

R, Matlab, OpenCV, Octave, OpenBUGS, WinBUGS, Weka, Tableau, Knime

• Databases:

MySQL, NoSQL, PostgreSQL, SQL Server

• Languages:

Fluent in English, Native in Turkish

References

Available upon request.