CURRICULUM VITA

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NAME: Khaled Rasheed

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PLACE OF BIRTH: Egypt

EDUCATION:

Ph.D.	Computer Science	Rutgers University	January 1998
M.S.	Computer Science	Rutgers University	January 1995
B.S.	Computer Science	Alexandria University	June 1990

DISSERTATION:

"GADO: A Genetic Algorithm for Continuous Design Optimization", Haym Hirsh (advisor).

RESEARCH INTERESTS:

Artificial Intelligence Techniques: Genetic Algorithms, Evolutionary Computation, and Machine Learning
Artificial Intelligence Applications: Engineering Design Optimization, Computational Biology, Bioinformatics

POSITIONS:

Aug. 2000 – present	Professor (promoted 8/2017), The University of Georgia, Department of Computer Science, Athens, GA
July 1999 – July 2000	Assistant Research Professor, Rutgers University, Department of Computer Science, New Brunswick, NJ
Jan. 1998 – June 1999	Research Associate, Rutgers University, Department of Computer Science, New Brunswick, NJ.
Sept. 1998 – Jan. 1999	Co-Adjutant, Rutgers University, Department of Computer Science, New Brunswick, NJ.
June 1994 – Dec. 1997	Research Assistant, Rutgers University, Department of Computer Science, New Brunswick, NJ.
Aug. 1995 – Dec. 1995	Teaching Assistant, Rutgers University, Department of Computer Science, New Brunswick, NJ.
Aug. 1993 – May 1994	Teaching Assistant, Rutgers University, Department of Computer Science, New Brunswick, NJ.

Aug. 1992 – May 1993	Teaching Assistant, Iowa State University, Department of Computer Science, Ames, Iowa.
Oct. 1990 – Aug. 1992	Teaching Assistant, Alexandria University, Department of Computer Science, Egypt.
June 1990 – Aug. 1992	Computer Consultant, World Health Organization (WHO), Alexandria, Egypt.
Oct. 1990 – Feb. 1991	Computer Consultant, Egyptian Governmental project for Decision Support, Alexandria, Egypt.

HONORS AND AWARDS:

- Center for Teaching and Learning "Teacher of the week" recognition, University of Georgia, 2016.
- Faculty Excellence in Teaching award, Computer Science department, University of Georgia, 2012.
- Outstanding Faculty Service award, Computer Science department, University of Georgia, 2011.
- Second Best Paper award in the *Twenty-fourth International Conference on Industrial, Engineering and Other Applications of Applied Intelligent Systems (IEA/AIE 2011)*.
- Nominated for best paper award in *The Genetic and Evolutionary Computation Conference (GECCO'2005)*
- Egyptian National Scholarship for academic excellence, 1985-1990
- Prize of the Egyptian Ministry of Education (third top student, mathematics section nationwide, secondary school final exam 1985)

GRANTS:

1. National Institutes for Health (NIH), "Functional Annotation of Natural and Disease Variants in Tryosine Kinases", Natarajan Kannan (PI), Khaled Rasheed (Co-Investigator), $1,250,000, 2015 - 2020.
2. GA Power Company, "Solar Technology Master Project", David Gattie (PI), Khaled Rasheed (Co-PI) , Don Potter (Co-PI) and Fred Maier (Co-PI), $213,400, 2015 – 2018.
3. UGA Faculty Research Grant, "Modeling, Evaluation & Design of External Skeletal Fixation Structures", Khaled Rasheed (PI), $5000, January, 2004 – December, 2004.
4. National Science Foundation (NSF), "Data Driven Design Optimization in Engineering Using Concurrent Integrated Experiment and Simulation," Doyle Knight (PI), Khaled Rasheed (Co-PI) and Yogesh Jaluria, Gregory Elliott, Noshir Langrana (Co-PIs), $1,200,000, 2001 - 2004.
5. Rutgers University – Subcontract from DARPA Grant. "Self Adaptive GA-Based Design Optimization using Reduced Models", Khaled Rasheed (PI), $60,000, November 2000 - June 2002.
6. Defense Advanced Research Projects Agency (DARPA), Department of Defense, "Self-Adaptive Software for Automated Design of Complex Engineering Systems," Saul Amarel (PI), Louis Steinberg (Co-PI), and Khaled Rasheed (Investigator), $540,000, 1998-2001.
7. National Science Foundation (NSF), "Utility-Based Control of Hierarchical Design," Louis Steinberg (PI), Robert Berk (Co-PI), and Khaled Rasheed (Investigator), $349,000, 1998-2001.

8. National Aeronautics and Space Agency (NASA/Ames), "Design Optimization in the Domain of Overset Grid Generation," Saul Amarel (PI), Donald Smith (Co-PI), and Khaled Rasheed (Investigator), $50,000, 1998-1999.

SUBMITTED GRANTS:

1. National Science Foundation (NSF), "AitF: Effective Machine Learning via Efficient k-Tree Optimization", Liming Cai (PI), Khaled Rasheed (Co-PI), Lakshmish Ramamswamy (Co-PI), John Miller (Co-PI), $941,535, Submitted under review 2016. [not funded, to be resubmitted]

PROFESSIONAL ACTIVITIES:

- Journal Associate Editor:
  - International Journal on Computer Vision, Machine Learning, and Data Mining (CVMLDM)
- Journal guest editor:
  - Soft Computing Journal: special issue on approximation and learning in evolutionary computation (2003)
- Journal Editorial Board Member:
  - Applied Intelligence
  - ISRN Artificial Intelligence
- Journal reviewer:
  1. IEEE Intelligent Systems
  2. IEEE Transactions on Evolutionary Computation
  3. IEEE Transactions on Systems, Man and Cybernetics (Part A)
  4. IEEE/ACM Transactions on Computational Biology and Bioinformatics
  5. Journal of Machine Learning Research (JMLR)
  6. Machine Learning Journal (MLJ)
  7. Journal of Artificial Intelligence Research (JAIR)
  8. Artificial Intelligence in Engineering Design and Manufacturing (AIEDAM)
  9. International Association for Mathematics and Computers in Simulation (IMACS)
  10. Applied Intelligence
  11. ISRN Artificial Intelligence
  12. Soft Computing and Automation Journal
  13. Pattern Recognition Letters
  14. Aerospace Science and Technology
  15. Journal of Computing and Information Science in Engineering (JCISE)
  16. Plos One
- Workshop Organizer:
  - Genetic and Evolutionary Computation Conference (GECCO'2002) Workshop on Approximation and Learning in Evolutionary Computation.
  - Genetic and Evolutionary Computation Conference (GECCO'2003) Workshop on Learning and Adaptation in Evolutionary Computation.
- Tutorial Organizer:
  - Genetic and Evolutionary Computation Conference (GECCO'2005) Tutorial on Fitness Approximation in Evolutionary Computation.
- Conference Session Chair:
  - Int'l. Conf. on Artificial Intelligence (ICAI'2010, 2016)

- Int'l. Conf. on Genetic and Evolutionary Methods (GEM'2010, 2013)
- The Ninth International Conference on Machine Learning and Applications (ICMLA'2010)
- The IMACS World Congress (2009)
- Genetic and Evolutionary Computation Conference (GECCO'2002, 2003, 2004, 2005,2008)
- The International Multi-conferences in Computer Science (MLMTA'2004)
- Third Annual Genetic Programming Conference (GP'98)

❖ Program committee member:
- Genetic and Evolutionary Computation Conference (GECCO'99, 2000, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2013, 2014, 2015, 2016, 2017, 2018)
- The Congress on Evolutionary Computation (2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2013, 2014, 2015, 2016, 2017, 2018)
- Parallel Problem Solving from Nature (PPSN 2004, 2006, 2012, 2014, 2016, 2018)
- IASTED International Conference on Artificial Intelligence and Soft Computing (ASC 2009, 2011)
- European Conference on the Applications of Evolutionary Computation (EvoApplications'2010, 2011)
- IASTED International Conference on Computational Bioscience (CompBio 2010)
- The European Workshop on Evolutionary Algorithms in Stochastic and Dynamic Environments (2003, 2004, 2005).
- International Conference on Machine Learning (ICML'2001)
- The 39th Annual ACM Southeast Conference (2001)

❖ Grant Proposal Reviewer
- Oak Ridge Associated Universities, Inc. (ORAU), 2016.
- Netherlands Organization for Scientific Research, 2008.
- North Carolina Biotechnology Center, 2005.

❖ Member of Panels and Evaluation Teams:
- Participant in the Information Technology Research (ITR) PI meeting and research assessment at the National Science Foundation 2004.

PUBLICATIONS:

Book Chapters:

1. Dongsheng Che, Qi Liu, Khaled Rasheed and Xiuping Tao, "Decision Tree and Ensemble Learning Algorithms with Their Applications in Bioinformatics", in *Software Tools and Algorithms for Biological Systems,* Springer-Verlag, pp. 191 – 199, 2011.
2. Liang Shi and Khaled Rasheed, "A Survey of Fitness Approximation Methods Applied in Evolutionary Algorithms", in *Computational Intelligence in Expensive Optimization Problems*, Springer-Verlag, pp. 3 – 28, 2010.
3. Khaled Rasheed, Xiao Ni and Swaroop Vattam. "Methods for Using Reduced Models to Speed Up Genetic Algorithm Optimization: Informed Operators and Genetic Engineering", in *Knowledge Incorporation in Evolutionary Computation*, Springer-Verlag, 2003.

Submitted Book Chapters:

Journal Publications:

4. Mohammad Mohebbi, Liang Ding, Russell Malmberg, Cory Momany, Khaled Rasheed, and Liming Cai, “ACCURATE PREDICTION OF HUMAN MIRNA TARGETS VIA
5. GRAPH MODELING OF MIRNA-TARGET DUPLEX”. To appear in *Journal of Bioinformatics and Computational Biology*, accepted 2018.
6. Khalifeh AlJadda, Mohammed Korayem, Camilo Ortiz, Trey Grainger, John A Miller, Khaled Rasheed, Krys Kochut, William York, Rene Ranzinger, Melody Porterfield, Hao Peng, “Mining Massive Hierarchical Data Using a Scalable Probabilistic Graphical Model”. To appear in *Information Sciences*, accepted 2017.
7. Daniel McSkimming, Khaled Rasheed, and Natarajan Kannan, “Classifying kinase conformations using a machine learning approach”, in *BMC Bioinformatics,* 2017; **18(86)**, doi:10.1186/s12859-017-1506-2, 2017.
8. Amna Basharat, Khaled Rasheed and I. Budak Arpinar, “A Conceptual Framework For Linked Open Islamic Knowledge”, *The International Journal on Islamic Applications in Computer Science and Technology (IJASAT)*, **4(2)**, pp. 16 – 25, 2016.
9. ManChon U, Eric Talevich, Samiksha Katiyar, Khaled Rasheed, and Natarajan Kannan, “Prediction and Prioritization of Rare Oncogenic Mutations in the Cancer Kinome Using Novel Features and Multiple Classifiers”, in *PLOS Computational Biology,* **10(4):** e1003545. doi:10.1371/journal.pcbi.1003545, 2014.
10. Rahila Umer, Sohrab Khan, Aftab Ahmed, Khaled Rasheed and Tianming Liu, “Prediction of Possible conversion from MCI to AD using Machine learning”, in the *International Journal of Basic and Applied Sciences*, **1(2)**, pp. 100-108, 2012.
11. Dongsheng Che, C. Hockenbury, R. Marmelsteinand, and Khaled Rasheed. “Classification of genomic islands using decision trees and their ensemble algorithms”, *BMC Genomics*, **11(**suppl **2)**:S1, 2010.
12. Bo Qian and Khaled Rasheed, “Foreign Exchange Market Prediction with Multiple Classifiers”, *Journal of Forecasting*, **29(3)**, pp. 271 – 284, 2010.
13. Hamid R. Arabnia, Junfeng Qu, Yinglei Song, Khaled Rasheed, and Byron Jeff, “Clustering Time Series Online in a Transformed Space”, *The Ubiquitous Computing and Communication Journal (UBICC; http://www.ubicc.org),* Vol**. 3(7)** pages, 2008.
14. Jaymin Kessler, Khaled Rasheed and Budak Arpinar, “Using Genetic Algorithms to Reorganize Superpeer Structure in Peer to Peer Networks”, *Applied Intelligence: The International Journal of Artificial Intelligence, Neural Networks and Complex Problem-Solving Technologies*, **26(1)**, pp. 35 – 52, 2007.
15. Bo Qian and Khaled Rasheed, “Stock Market Prediction with Multiple Classifiers”, *Applied Intelligence: The International Journal of Artificial Intelligence, Neural Networks and Complex Problem-Solving Technologies*, **26(1)**, pp. 25 – 33, 2007.
16. Deepti Chafekar, Liang Shi, Khaled Rasheed and Jiang Xuan, “Constrained Multi-objective GA Optimization Using Reduced Models”, *IEEE Transactions on Systems, Man and Cybernetics*, **35(2)**, pp. 261 – 265, 2005.
17. Khaled Rasheed, Xiao Ni and Swaroop Vattam, "Comparison of Methods for Developing Dynamic Reduced Models for Design Optimization", *The Soft Computing Journal*, (online) 2003, (in print) **9(1)**, pp. 29 – 37, 2005.
18. Jack Smith, Doyle Knight, Joachim Kohn, Khaled Rasheed and Norbert Weber, “Using Surrogate Modeling in the Prediction of Fibrinogen Adsorption onto Polymer Surfaces”, *Journal of Chemical Information and Computer Sciences*, **44**:1088—1097, 2004.
19. L. Wu, W.D. Potter, K. Rasheed, J. Ghent, D. Twardus, H. Thistle and M. Teske, " Nature Inspired Heuristics in Aerial Spray Deposition Management", *The Journal of Applied Systems Studies*, **4(2)**, 2003.
20. Anil Bahuman, Khaled Rasheed, and Benjamin Bishop, "Evolutionary Design Automation of VLSI Standard Cells", *The Journal of Applied Systems Studies*, **4(2)**, 2003.

21. Khaled Rasheed and Haym Hirsh, "Learning to be Selective in Genetic-Algorithm-Based Design Optimization", *Artificial Intelligence for Engineering Design, Analysis and Manufacturing*, **13:**157-169, 1999.
22. Michael Blaize, Doyle Knight, and Khaled Rasheed, "Automated Optimal Design of Two Dimensional Supersonic Missile Inlets", *The Journal of Propulsion and Power*, **14**(6): 890-898, 1998.
23. Khaled Rasheed, Haym Hirsh and Andrew Gelsey, "A Genetic Algorithm for Continuous Design Space Search", *Artificial Intelligence in Engineering*, **11**(3):295-305, 1997.
24. G.-C. Zha, D. Smith, M. Schwabacker, K. Rasheed, A. Gelsey, D. Knight and Martin Hass, "High Performance Supersonic Missile Inlet Design Using Automated Optimization", *Journal of Aircraft*, **34**(6):697-705, 1997.
25. A. Gelsey, D. Smith, M. Schwabacker, K. Rasheed, and K. Miyake, "A Search Space Toolkit", *Decision Support Systems*, **18**:341-356, 1996.

Submitted Journal Publications:

26. Amna Basharat, Budak Arpinar and Khaled Rasheed, "Human Computation and Crowdsourcing meet the Semantic Web". Submitted under review to *IOS Semantic Web Journal,* 2015.

Conference Publications:

27. Ewan Wright, Qiang Hao, Khaled Rasheed and Yan Liu, "Feature Selection and Classification of Post-Graduation Income of College Students in the United States". To appear in *Proceedings of the 2018 International Conference on Social Computing, Behavioral-Cultural Modeling & Prediction and Behavior Representation in Modeling and Simulation (SBP-BRiMS'18),* 2018.
28. Liang Wang and Khaled Rasheed, "Stock Ranking with Market Microstructure, Technical Indicators and News". To appear in *Proceedings of the 2018 Int'l. Conf. on Artificial Intelligence (ICAI'18)'*, 2018.
29. Akram Farhadi, Joshua J. Chern, Daniel Hirsh, Tod Davis, Joe Ming, Jennifer L. Wheelus, Frederick Maier, and Khaled Rasheed, "Predicting Intracranial Pressure (ICP) in Children Using Regression". To appear in *Proceedings of the Southern Data Science Conference (SDSC'18),* 2018.
30. William Sanders, Chris Barrick, Frederick Maier and Khaled Rasheed, "Solar Radiation Prediction Improvement Using Weather Forecasts". In *Proceedings of the 16th IEEE International Conference On Machine Learning And Applications (ICMLA'17),* 2017.
31. Anzah Niazi, Delaram Yazdansepas, Jennifer Gay, Frederick Maier, Lakshmish Ramaswamy, Khaled Rasheed and Matthew Buman, "Statistical Analysis of Window Sizes And Sampling Rates in Human Activity Recognition". In *Proceedings of the International Conference on Health Informatics (HEALTHINF'17)*, 2017.
32. Mohammad Mohebbi, Liang Ding, Russell L. Malmberg, Cory Momany, Khaled Rasheed and Liming Cai, "Accurate Prediction of Human miRNA Targets via Graph Modeling of miRNA-Target Duplex". In *Proceedings of 6th IEEE International Conference on Computational Advances in Bio and Medical Sciences, (ICCABS'16),* 2016.
33. Anzah Niazi, Delaram Yazdansepas, Jennifer Gay, Frederick Maier, Lakshmish Ramaswamy, Khaled Rasheed and Matthew Buman, "A Hierarchical Meta-Classifier for Human Activity Recognition". *Proceedings of the IEEE International Conference on Machine Learning and Applications (ICMLA' 2016)*, 2016.

34. Amna Basharat, Khaled Rasheed and I. Budak Arpinar, "Harnessing Crowds and Experts for Semantic Annotation of the Qur'an". Poster session of *the 15th International Semantic Web Conference (ISWC 2016),* 2016. (Poster).
35. Delaram Yazdansepas, Anzah Niazi, Jennifer L. Gay, Frederick W. Maier, Lakshmish Ramaswamy, Khaled Rasheed, and Matthew P. Buman, "A Multi-Featured Approach for Wearable Sensor-based Human Activity Recognition". *Proceedings of the IEEE International Conference on Healthcare Informatics (ICHI' 2016)*, pp. 423 – 431, 2016.
36. Pan Huang, Amna Basharat and Khaled Rasheed, "Analysis of the Effect of Distance Metric Across Languages on Verse Similarity in The Qur'An", in *Proceedings of the 2016 Int'l. Conf. on Artificial Intelligence (ICAI'2016)*', pp. 144 – 150, 2016. (Acceptance rate: 24%)
37. Haosha Wang. Khaled Rasheed. And Joshua De Han, "Style-Me, An Experimental AI Fashion Stylist", in *Proceedings of the 29th International Conference on Industrial Engineering & Other Applications of Applied Intelligent Systems, (IEA/AIE 2016),* pp. 553 – 561, 2016.
38. Amna Basharat, Budak Arpinar, and Khaled Rasheed, "Leveraging Crowdsourcing for the Thematic Annotation of the Qur'an". Poster session of *the 25th International World Wide Web Conference*, pp. 13 – 14, 2016. (Poster Acceptance Rate: 40%)
39. Cameron Hamilton, Shervin Shahriari and Khaled Rasheed, "Eye State Prediction from EEG Data Using Boosted Rotational Forests", in *Proceedings of the International Conference on Machine Learning and Applications (ICMLA 2015),* 2015. (Poster)
40. Amna Basharat, Khaled Rasheed and Budak Arpinar, "Towards Linked Open Islamic Knowledge using Human Computation and Crowdsourcing", in *Proceedings of the third Int'l. Conf. on Islamic Application in Computer Science and Technologies (IMAN'2015)*', 2015.
41. Amna Basharat, Delaram Yasdansepas and Khaled Rasheed, "Comparative Study of Verse Similarity for Multi-lingual Representations of the Qur'an", in *Proceedings of the 2015 Int'l. Conf. on Artificial Intelligence (ICAI'2015)*', pp. 336 – 342, 2015. (Acceptance rate: 27%)
42. Aardra Ambili and Khaled Rasheed, "Automated scoring of Levels of Integrative Complexity using Machine Learning and Natural Language Processing", in *Proceedings of the 2015 Int'l. Conf. on Artificial Intelligence (ICAI'2015)*', pp. 323 – 327, 2015. (Acceptance rate: 27%)
43. Aardra Ambili and Khaled Rasheed, "Automated scoring of the Level of Integrative Complexity from Text using Machine Learning", in *Proceedings of the International Conference on Machine Learning and Applications (ICMLA 2014),* pp. 300 – 305, 2014.
44. Haosha Wang and Khaled Rasheed, "Artificial Intelligence in Clothing Fashion", in *Proceedings of the 2014 Int'l. Conf. on Artificial Intelligence (ICAI'2014)*', pp. 484 – 490, 2014. (Acceptance rate: 29%)
45. Shu Zhang, Roi Ceren and Khaled Rasheed, "Evolmusic: A Prefernce Learning Accompanist", in *Proceedings of the 2014 Int'l. Conf. on Genetic and Evolutionary Methods (GEM'2014)*', pp. 34 – 40, 2014. . (Acceptance rate: 29%)
46. Shu Zhang, C. Thomas Bailey and Khaled Rasheed, "Evac: An Evolutionary Accompanist", in *Proceedings of the 2013 Int'l. Conf. on Genetic and Evolutionary Methods (GEM'2013),* pp. 69 – 75, 2013. (Acceptance rate: 31%)
47. Xuewei Qi, Khaled Rasheed, Ke Li and W. Don Potter, "A Fast Parameter Setting Strategy for Particle Swarm Optimization and Its Application in Urban Water Distribution Network Optimal Design", in *Proceedings of the 2013 Int'l. Conf. on Genetic and Evolutionary Methods (GEM'2013),* pp. 53 – 59, 2013. (Acceptance rate: 31%)
48. Tomasz Oliwa and Khaled Rasheed, "An Overlapping Variable Linkage Benchmark Suite", in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO'2013 Companion),* pp. 127-128, 2013. (Poster)

49. Ganesh Bonde and Khaled Rasheed, “Extracting the Best Features for Predicting Stock Prices Using Machine Learning”, in *Proceedings of the 2012 Int’l. Conf. on Artificial Intelligence (ICAI’2012)*, pp. 222 – 229, 2012. (Acceptance rate: 28%)
50. Ganesh Bonde and Khaled Rasheed, “Stock Price Prediction Using Genetic Algorithms and Evolution Strategies”, in *Proceedings of the 2012 Int’l. Conf. on Genetic and Evolutionary Methods (GEM’2012)*, pp. 10 – 15, 2012. (Acceptance rate: 29%)
51. Tomasz Oliwa and Khaled Rasheed, "A Surrogate-assisted and Informed Linkage Aware Genetic Algorithms", in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO’2012 Companion)*, pp. 1467-1468, 2012. (Poster)
52. Tomasz Oliwa and Khaled Rasheed, "A Surrogate-assisted Linkage Inference Approach in Genetic Algorithms", in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO’2011)*,pp. 997-1004, 2011. (Acceptance rate: 38%)
53. ManChon U, Chiahsun Ho Shelby Funk and Khaled Rasheed, " GART: A Genetic Algorithm based Real Time System Scheduler", in *Proceedings of the IEEE Congress on Evolutionary Computation (CEC’ 2011)*, pp. 886-893, 2011.
54. Muthukumaran Chandrasekaran, Karthik Nadig and Khaled Rasheed, “Evolving Efficient Sensor Arrangement and Obstacle Avoidance Control Logic for a Miniature Robot”, in *Proceedings of the Twenty-fourth International Conference on Industrial, Engineering and Other Applications of Applied Intelligent Systems (IEA/AIE 2011)*, pp. 347-356, 2011. **[second best paper award]**
55. Boseon Byeon and Khaled Rasheed, “Bayesian Networks and Genetic Algorithms for Promoter Recognition”, in *Proceedings of the IASTED International Conference on Computational Bioscience (Compbio 2010)*, pp. 593 – 598, 2010.
56. Boseon Byeon and Khaled Rasheed, “Selection of Classifier and Feature Selection Method for Microarray Data”, in *Proceedings of the Ninth International Conference on Machine Learning and Applications (ICMLA 2010)*, pp. 534 – 539, 2010. (Acceptance rate: 44%)
57. ManChon U, and Khaled Rasheed, "A Relative Tendency Based Stock Market Prediction System", in *Proceedings of the Ninth International Conference on Machine Learning and Applications (ICMLA 2010)*, pp. 949 – 953, 2010. (Short paper)
58. ManChon U, Vasim Mahamuda, and Khaled Rasheed, "On the Scalability of Supervised Learners in Metagenomics", in *Proceedings of the Ninth International Conference on Machine Learning and Applications (ICMLA 2010)*, pp. 803 – 807, 2010. (Short paper)
59. Vasim Mahamuda, ManChon U and Khaled Rasheed, “Application of Machine Learning Algorithms for Binning Metagenomic Data”, in *Proceedings of the International Conference on Bioinformatics and Computational Biology (BIOCOMP'2010)*, pp. 68 – 74, 2010. (Acceptance rate: 27%)
60. Tomasz Oliwa and Khaled Rasheed, “A Machine Learning Approach for Sensitivity Inference in Genetic Algorithms”, in *Proceedings of the 2010 Int’l. Conf. on Genetic and Evolutionary Methods (GEM’2010)*, pp. 36 – 41, 2010. (Acceptance rate: 29%)
61. Boseon Byeon and Khaled Rasheed, “Using Genetic Algorithms for Simultaneous Noise Removal and Feature Selection in Classification and Regression Problems”, in *Proceedings of the Int’l Conf. on Artificial Intelligence (ICAI'09)*, pp. 304 – 310, 2009. (Acceptance rate: 28%)
62. Dongsheng Che, Cory Hockenbury, Robert Marmelstein and Khaled Rasheed, “Classification of Genomic Islands Using Decision-tree Based Algorithms”, in *Proceedings of The International Conference on Bioinformatics and Computational Biology (BIOCOMP'09)*, pp. 252 – 258, 2009. (Acceptance rate: 27%)
63. Osama Al-Haj Hassan, Lakshmish Ramazwamy, John Miller, Khaled Rasheed, E. Rodney Canfield; "Replication in Overlay Networks: A Multi-objective Optimization Approach", in

Proceedings of the International Conference on Collaborative Computing: Networking, Applications and Work-sharing, Florida, USA, pp. 512 – 518, 2008.

64. Cesar Koirala and Khaled Rasheed, "Comparison of the Effects of Morphological and Ontological Information on Text Categorization", in *Proceedings of the Seventh International Conference on Machine Learning and Applications (ICMLA'08),* pp. 783 – 786, 2008. (Short paper)
65. Boseon Byeon and Khaled Rasheed, "Simultaneously Removing Noise and Selecting Relevant Features for High Dimensional Noisy Data", in *Proceedings of the Seventh International Conference on Machine Learning and Applications (ICMLA'08),* pp. 147 – 152, 2008. (Acceptance rate: 50%)
66. Liang Shi and Khaled Rasheed, "ASAGA: An Adaptive Surrogate-Assisted Genetic Algorithm", in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO'2008)*, pp. 1049 – 1056, 2008. (Acceptance rate: 42%)
67. Glenn F. Matthews and Khaled Rasheed, "Temporal Difference Learning for Nondeterministic Board Games", in *Proceedings of the Int'l Conf. on Artificial Intelligence (ICAI'08) and Proceedings of the Int'l Conf. on Machine Learning; Models, Technologies and Applications (MLMTA'08)*, USA, pp. 800 – 806, 2008. (Acceptance rate: 27%)
68. David Luper, Muthukumaran Chandrasekaran, Khaled Rasheed, and Hamid Arabnia, "Path Normalcy Analysis Using Nearest Neighbor Outlier Detection", in *Proceedings of the Int'l Conf. on Artificial Intelligence (ICAI'08) and Proceedings of the Int'l Conf. on Machine Learning; Models, Technologies and Applications (MLMTA'08)*, USA, pp. 776 – 783, 2008. (Acceptance rate: 27%)
69. Boseon Byeon, Khaled Rasheed, and Prashant Doshi "Enhancing the Quality of Noisy Training Data Using a Genetic Algorithm and Prototype Selection", in *Proceedings of the Int'l Conf. on Artificial Intelligence (ICAI'08) and Proceedings of the Int'l Conf. on Machine Learning; Models, Technologies and Applications (MLMTA'08)*, USA, pp. 821 – 827, 2008. (Acceptance rate: 27%)
70. Junfeng Qu, Hamid R. Arabnia, Yinglei Song, Khaled Rasheed, and Jack E. Houston, "Time Series Similarity Matching with a New Distance Measure", in *Proceedings of 2007 Int'l. Conf. on Information and Knowledge Engineering (IKE'07)*, USA, ISBN #: 1-60132-050-7, pp. 183 – 189, 2007. (Acceptance rate: 30%)
71. Chongshan Zhang and Khaled Rasheed, "Improving GA Performance Using Relative Fitness", in *Proceedings of the 2007 Int'l. Conf. on Genetic and Evolutionary Methods (GEM'07)*, USA, pp. 31 – 37, 2007. (Acceptance rate: 27%)
72. Sergey Fogelson, Khaled Rasheed, Xiangxue Guo, and Jan Mrazek, "Comparing Machine Learning Techniques in Predicting Translation Start Sites in Prokaryotic Genomes", in *Proceedings of the Int'l Conf. on Machine Learning; Models, Technologies and Applications (MLMTA'07)*, USA, pp. 85 – 89, 2007. (Acceptance rate: 32%)
73. Chongshan Zhang and Khaled Rasheed, "Improving GA Search Reliability Using Maximal Hyper-Rectangle Analysis", in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO'2005)*, pp. 1185 – 1192, 2005. (Acceptance rate: 46.1%) **[nominated for a best paper award]**
74. Dongsheng Chi, Yinglei Song and Khaled Rasheed, "MDGA: Motif Discovery Using a Genetic Algorithm", in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO'2005)*, pp. 447 – 452, 2005. (Acceptance rate: 46.1%)
75. Bo Qian and Khaled Rasheed, "Hurst Exponent and Financial Market Predictability", in *Proceedings of the IASTED Conference on Financial Engineering and Applications (FEA 2004)*, pp. 203 – 209, November, 2004.
76. Jack Smith, Doyle Knight, Joachim Kohn, Norbert Weber, Khaled Rasheed, Sascha Abramson, "Molecular-Scale Properties of Biomaterials Relevant to Protein Adsorption and

Cell Growth Using Data Mining of Combinatorial Libraries of Polymers", in The 7th World Biomaterials Congress, 2004.

77. Doyle Knight, Jack Smith, Norbert Weber, Joachim Kohn, Khaled Rasheed, "Prediction of Fibrinogen Adsorption on Polymer Surfaces Using an Artificial Neural Network", in The 7th World Biomaterials Congress, 2004. (poster)
78. Ramyaa, Congzhou He,and Khaled Rasheed, "Using Machine Learning Techniques for Stylometry", in *Proceedings of the International Conference on Machine Learning; Models, Technologies and Applications (MLMTA'2004)*, pp. 897-903, 2004.
79. Ning Suo, Khaled Rasheed, Don Potter and Dennis Aron, "Machine Learning Techniques for the Evaluation of External Skeletal Fixation Structures", in *Proceedings of the International Conference on Mathematics and Engineering Techniques in Medicine and Biological Sciences (METMBS '04),* pp. 378 – 384, 2004.
80. Jack Smith, Doyle Knight, Joachim Kohn, Khaled Rasheed, Norbert Weber and Sascha Abramson, "Using Non-Linear Regression to Predict Bioresponse in a combinatorial Library of Biodegradable Polymers", in *Proceedings of the Material Research Society Fall Meeting 2003,* Vol. 804, Paper No. JJ5.7, 2003.
81. Jacob Martin and Khaled Rasheed, "Using Singular Value Decomposition to Improve a Genetic Algorithm's Performance", in *Proceedings of the Congress on Evolutionary Computation (CEC'2003),* pp. 1612-1617, 2003.
82. Deepti Chafekar, Jiang Xuan and Khaled Rasheed, "Constrained Multi-objective Optimization Using Steady State Genetic Algorithms", in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO'2003),* pp. 813-824, 2003 (Acceptance rate 46.5%).
83. D. Knight, G. Elliot, Y. Jaluria, N. Langrana and K. Rasheed, "Automated Optimal Design Using Concurrent Intagrated Experiment and Simulation", in *AIAA/ISSMO Symposium on Multidisciplinary Analysis and Optimization*, AIAA Paper No. 2002-5636, 2002.
84. Khaled Rasheed, Swaroop Vattam and Xiao Ni, "Comparison of Methods for Using Reduced Models to Speed Up Design Optimization", in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO'2002),* pp. 1180-1187, 2002. (Acceptance rate 49.6%)
85. L. Wu, W.D. Potter, K. Rasheed, J. Ghent, D. Twardus, H. Thistle and M. Teske, "A Comparison of Genetic Algorithm Methods in Aerial Spray Deposition Management", in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO'2002),* p. 1274 (poster), 2002.
86. Anil Bahuman, Benjamin Bishop and Khaled Rasheed, "Automated Standard Cell Synthesis Using Genetic Algorithms", in *Proceedings of the IEEE Computer Society Annual Symposium on VLSI,* pp. 141-150, 2002.
87. L. Wu, W.D. Potter, K. Rasheed, J. Ghent, D. Twardus, H. Thistle and M. Teske, "Improving the Genetic Algorithm Performance in Aerial Spray Deposition Management,", in *Proceedings of the IEEE Southeast Conference,* pp. 306-311, 2002.
88. Khaled Rasheed, Xiao Ni and Swaroop Vattam, "Comparison of Methods for Developing Dynamic Reduced Models for Design Optimization", in *Proceedings of the Congress on Evolutionary Computation (CEC'2002),* pp. 390-395, 2002.
89. Anil Bahuman, Khaled Rasheed and Benjamin Bishop, "An Evolutionary Approach for VLSI Standard Cell Design", in *Proceedings of the Congress on Evolutionary Computation (CEC'2002),* pp. 431-436, 2002.
90. Benjamin Bishop, Khaled Rasheed, and Anil Bahuman, "VLSI Standard Cell Design Using Genetic Algorithms", in *Proceedings of the 39th Annual ACM Southeast Conference,* pp. 44-45, 2001.

91. Gerald Carrier, Doyle Knight, Khaled Rasheed, and Xavier Montazel, "Multi-criteria Design Optimization of a Two dimensional Supersonic Inlet", *The 39th AIAA Aerospace Sciences Meeting and Exhibit*, AIAA Paper No. 2001-1064, 2001.
92. Khaled Rasheed and Haym Hirsh, "Informed operators: Speeding up genetic-algorithm-based design optimization using reduced models", in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO'2000)*, pp. 628-635, 2000. (Acceptance rate 47.3%)
93. Khaled Rasheed, "An Incremental-Approximate-Clustering Approach for Developing Dynamic Reduced Models for Design Optimization", in *Proceedings of the Congress on Evolutionary Computation (CEC'2000)*, pp. 986-993, 2000.
94. Louis Steinberg and Khaled Rasheed, "Optimization by Searching a Tree of Populations", in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCOC'99),*, pp. 1723-1730, 1999. (Acceptance rate 53.4%)
95. Khaled Rasheed and Brian Davison, "Effect of Global Parallelism on the Behavior of a Steady State Genetic Algorithm for Design Optimization", in *Proceedings of the Congress on Evolutionary Computation (CEC'99)*, pp. 534-541, 1999.
96. Khaled Rasheed, "Guided Crossover: A New Operator for Genetic-Algorithm-Based Optimization", in *Proceedings of the Congress on Evolutionary Computation (CEC'99)*, pp. 1535-1541, 1999.
97. Christophe Bourdeau, Gerald Carrier, Doyle Knight and Khaled Rasheed, "Three-dimensional Optimization of Supersonic Inlets", *The 35th AIAA/ASME/SAE/ASEE Joint Propulsion Conference*, AIAA Paper No. 99-2108, 1999.
98. Khaled Rasheed, "An Adaptive Penalty Approach for Constrained Genetic Algorithm Optimization", in *Proceedings of the Third Annual Conference on Genetic Programming (GP-98)/Symposium on Genetic Algorithms (SGA-98)*, pp. 584-590, 1998.
99. Khaled Rasheed, "Improving Genetic Algorithm Convergence Using Guided Crossover", in *Proceedings of the Third Annual Conference on Genetic Programming (GP-98)/Symposium on Genetic Algorithms (SGA-98)*, p. 591 (poster), 1998.
100. Michael Blaize, Doyle Knight, and Khaled Rasheed, "Automated Optimal Design of Two Dimensional High Speed Missile Inlets", *The 36th AIAA Aerospace Sciences Meeting and Exhibit*, AIAA Paper No. 98-0950, 1998.
101. B. Chernyavshy, V. Stepanov, K. Rasheed, M. Blaize and D. Knight, "3-D Hypersonic Inlet Optimization Using Genetic Algorithms", *The 34th AIAA/ASME/ASEE Joint Propulsion Conference*, AIAA Paper No. 98-3582, 1998.
102. Michael Blaize, Doyle Knight, Khaled Rasheed, and Yan Kergaravant, "Optimal Missile Inlet Design by Means of Automated Numerical Optimization", *The NATO RTO/AVT Symposium on Missile Aerodynamics*, pp. 371.37.9 1998.
103. Khaled Rasheed and Haym Hirsh, "Using Case Based Learning to Improve Genetic Algorithm Based Design Optimization", in *Proceedings of the Seventh International Conference on Genetic Algorithms (ICGA'97)*, pp 513-520, 1997. (Acceptance rate 49%)
104. G.-C. Zha, D. Smith, M. Schwabacker, K. Rasheed, A. Gelsey, and D. Knight, "High Performance Supersonic Missile Inlet Design Using Automated Optimization", *AIAA Symposium on Multidisciplinary Analysis and Optimization*, AIAA Paper No. 96-4142, 1996.

Submitted Conference Publications:

Workshop Publications:

105. Amna Basharat, Bushra Abro, Budak Arpinar, and Khaled Rasheed, “Semantic Hadith: Leveraging Linked Data Opportunities for Islamic Knowledge”. Linked Data on the Web workshop of *the 25th International World Wide Web Conference*, 2016.

106. Anirban Mukhopadhyay, Chul Woo Lim, Suchendra Bhandarkar, Hanbo Chen, Tianming Liu, Khaled Rasheed and Thiab Taha. "Analysis Of Surface Folding Patterns Of DICCCOLS Using The Geodesic Field Estimate", *The 16th International Conference on Medical Image Computing and Computer Assisted Intervention (*MICCAI'2013) Workshop on Mesh Processing in Medical Image Analysis, 2013.
107. Jiang Xuan, Deepti Chafekar and Khaled Rasheed, "Constrained Multi-objective GA Optimization Using Reduced Models", *The Genetic and Evolutionary Computation Conference (GECCO'2003)* workshop on learning and adaptation in evolutionary computation, July 2003.
108. Khaled Rasheed, Swaroop Vattam and Xiao Ni, "Comparison of Methods for Using Reduced Models to Speed Up Design Optimization", in *The Genetic and Evolutionary Computation Conference (GECCO'2002)* workshop on approximation and learning in evolutionary computation, 2002.
109. Brian Davison and Khaled Rasheed, "Effect of Global Parallelism on a Steady State Genetic Algorithm", *Evolutionary Computing and Parallel Processing workshop at the Genetic and Evolutionary Computation Conference*, (GECCO'99), 1999.
110. Khaled Rasheed and Andrew Gelsey, "Adaptation of Genetic Algorithms for Engineering Design Optimization", *Artificial Intelligence in Design (AID'96)*, Workshop on Evolutionary Systems in Design, 1996.

Submitted Workshop Publications:

Technical Reports:

111. Khaled Rasheed, "GADO: A Genetic Algorithm for Continuous Design Optimization", Technical Report DCS-TR-352, Department of Computer Science, Rutgers University, New Brunswick, NJ, 1998. Ph.D. Thesis.
112. Khaled Rasheed and Haym Hirsh, "Guided Crossover: A New Operator for Genetic-Algorithm-Based Optimization", Technical Report HPCD-TR-50, Department of Computer Science, Rutgers University, New Brunswick, NJ, 1997.

INVITED TALKS:

1. "Analysis of the Effect of Distance Metric Across Languages on Verse Similarity in The Qur'An", in *the 2016 Int'l. Conf. on Artificial Intelligence (ICAI'2016)*', 2016.
2. "Towards Linked Open Islamic Knowledge using Human Computation and Crowd-sourcing", in *the third Int'l. Conf. on Islamic Application in Computer Science and Technologies (IMAN'2015)*', 2015.
3. "Comparative Study of Verse Similarity for Multi-lingual Representations of the Qur'an", in *the Int'l. Conf. on Artificial Intelligence (ICAI'2015)*', 2015.
4. "Automated scoring of Levels of Integrative Complexity using Machine Learning and Natural Language Processing", in *the Int'l. Conf. on Artificial Intelligence (ICAI'2015)*', 2015.
5. "Automated scoring of the Level of Conceptual/Integrative Complexity from Text using Machine Learning", in *the International Conference on Machine Learning and Applications (ICMLA 2014),* 2014.
6. "Artificial Intelligence in Clothing Fashion", in *the 2014 Int'l. Conf. on Artificial Intelligence (ICAI'2014)*', 2014.
7. "Evolmusic: A Prefernce Learning Accompanist", in *the 2014 Int'l. Conf. on Genetic and Evolutionary Methods (GEM'2014)*', 2014.

8. "Evac: An Evolutionary Accompanist", in *the 2013 Int'l. Conf. on Genetic and Evolutionary Methods (GEM'2013),* 2013.
9. "A Fast Parameter Setting Strategy for Particle Swarm Optimization and Its Application in Urban Water Distribution Network Optimal Design", in *the 2013 Int'l. Conf. on Genetic and Evolutionary Methods (GEM'2013),* 2013.
10. "Extracting the Best Features for Predicting Stock Prices Using Machine Learning", in *the 2012 Int'l. Conf. on Artificial Intelligence (ICAI'2012),* 2012.
11. "Stock Price Prediction Using Genetic Algorithms and Evolution Strategies", in *the 2012 Int'l. Conf. on Genetic and Evolutionary Methods (GEM'2012),* 2012.
12. "A Surrogate-assisted Linkage Inference Approach in Genetic Algorithms", in *the Genetic and Evolutionary Computation Conference (GECCO'2011),* 2011.
13. "GART: A Genetic Algorithm based Real Time System Scheduler", in *the IEEE Congress on Evolutionary Computation (CEC' 2011),* 2011.
14. "Evolving Efficient Sensor Arrangement and Obstacle Avoidance Control Logic for a Miniature Robot", in *the Twenty-fourth International Conference on Industrial, Engineering and Other Applications of Applied Intelligent Systems (IEA/AIE 2011),* 2011.
15. "Bayesian Networks and Genetic Algorithms for Promoter Recognition", in *the IASTED International Conference on Computational Bioscience (CompBio 2010),* 2010.
16. "Application of Machine Learning Algorithms for Binning Metagenomic Data", in *the International Conference on Bioinformatics and Computational Biology (BIOCOMP'2010),* 2010.
17. "A Machine Learning Approach for Sensitivity Inference in Genetic Algorithms", in *the 2010 Int'l. Conf. on Genetic and Evolutionary Methods (GEM'2010),* 2010.
18. "Classification of Genomic Islands Using Decision-tree Based Algorithms", in *the International Conference on Bioinformatics and Computational Biology (BIOCOMP'09),* 2009.
19. "Genetic-Algorithm-Based feature Selection for Biomaterial Modeling", in *the IMACS World Congress,* 2009.
20. "Using Genetic Algorithms for Simultaneous Noise Removal and Feature Selection in Classification and Regression Problems", in *the International Conference on Artificial Intelligence (ICAI'09),* 2009.
21. "Simultaneously Removing Noise and Selecting Relevant Features for High Dimensional Noisy Data", in *Proceedings of the Seventh International Conference on Machine Learning and Applications (ICMLA'08),* pp. 147 – 152, 2008. (Acceptance rate: 50%)
22. "ASAGA: An Adaptive Surrogate-Assisted Genetic Algorithm", in *the Genetic and Evolutionary Computation Conference (GECCO'2008),* 2008.
23. "Temporal Difference Learning for Nondeterministic Board Games", in *the Int'l Conf. on Machine Learning; Models, Technologies and Applications (MLMTA'08),* 2008.
24. "Improving GA Performance Using Relative Fitness", in *the International Conference on Genetic and Evolutionary Methods* (GEM'07), 2007.
25. "Fitness Approximation in Evolutionary Computation", tutorial at *GECCO'2005* and presented with Yaochu Jin, 2005.
26. "Improving GA Search Reliability Using Maximal Hyper-Rectangle Analysis", in *the Genetic and Evolutionary Computation Conference (GECCO'2005),* 2005.
27. "MDGA: Motif Discovery Using a Genetic Algorithm", in *the Genetic and Evolutionary Computation Conference (GECCO'2005),* 2005.
28. "Hurst Exponent and Financial Market Predictability", in *the IASTED Conference on Financial Engineering and Applications (FEA 2004),* 2004.
29. "Machine Learning Methods for Biomaterial Modeling", *in the 7th New Jersey Symposium for Biomaterials,* October 2004.

30. “Machine Learning Techniques for the Evaluation of External Skeletal Fixation Structures”, *The International Conference on Mathematics and Engineering Techniques in Medicine and Biological Sciences (METMBS '04),* June 2004.
31. “Constrained Multi-objective Optimization Using Steady State Genetic Algorithms”, *The Genetic and Evolutionary Computation Conference (GECCO’2003)*.
32. "GADO: A Genetic Algorithm for Design Optimization", invited seminar, Georgia Institute of Technology, April 2003.
33. “Using Singular Value Decomposition to Improve a Genetic Algorithm's Performance”, in *the Congress on Evolutionary Computation (CEC'2003),* 2003.
34. “Comparison of Methods for Using Reduced Models to Speed Up Design Optimization”, in *the Genetic and Evolutionary Computation Conference (GECCO’2002)*, 2002.
35. "GADO: A Genetic Algorithm for Design Optimization", invited seminar, University of Maryland, College Park, Maryland, 2001.
36. “Informed Operators: Speeding up genetic-algorithm-based design optimization using reduced models”, *Genetic and Evolutionary Computation Conference* (GECCO’2000), 2000.
37. “An Incremental-Approximate-Clustering Approach for Developing Dynamic Reduced Models for Design Optimization”, in the *Congress on Evolutionary Computation* (CEC’2000), 2000.
38. “Effect of Global Parallelism on a Steady State Genetic Algorithm”, in the *Evolutionary Computing and Parallel Processing workshop at the Genetic and Evolutionary Computation Conference* (GECCO’99), 1999.
39. “GADO: A genetic Algorithm for Design Optimization”, NASA Ames Research Center, 1998.
40. “An Adaptive Penalty Approach for Constrained Genetic Algorithm Optimization”, *in the Third Annual Conference on Genetic Programming* (GP-98)*/Symposium on Genetic Algorithms* (SGA-98), 1998.
41. “Using Case Based Learning to Improve Genetic Algorithm Based Design Optimization”, *in the Seventh International Conference on Genetic Algorithms* (IGGA’97), 1997.
42. “Adaptation of Genetic Algorithms for Engineering Design Optimization”, in *The Artificial Intelligence in Design* (AID’96) Workshop on Evolutionary Systems in Design, 1996.

MAJOR PROFESSOR OF: [39 in total]

Ph.D. Dissertation Advisor for:

1. Shubha Mishra, Ph.D. in Computer Science, in progress.
2. Amna Basharat, Ph.D. in Computer Science, “Semantics Driven Human-Machine Computation Framework for Linked Islamic Knowledge Engineering”, Fall 2016.
3. ManChon U, Ph.D. in Computer Science, “Improving Learning Outcomes by Using Clustering Validity Analysis to Reduce Label Uncertainty”, Summer 2013.
4. Tomasz Oliwa, Ph.D. in Computer Science, “Learning, Exploiting and Benchmarking Problem Structures in Real-Valued Evolutionary Optimization”, Spring 2013.
5. Boseon Beyon, PhD. in Computer Science, “Enhancing the Quality of High Dimensional Noisy Data for Classification and Regression Problems”, Spring 2009.
6. Liang Shi, Ph.D. in Computer Science, “Adaptive Surrogate-Assisted Evolution”, Fall 2008.
7. Bo Qian, Ph.D. in Computer Science, “Intelligent Financial market Prediction”, Summer 2006.

M.S. Thesis Advisor for:

8. Chandler Kincaid, M.S. in Artificial Intelligence, in progress.
9. Liang Wang, M.S. in Computer Science, “Stock Ranking with Market Microstructure, News and Technical Indicators”, Spring 2018.
10. Brent Lippert, M.S. in Artificial Intelligence, “PREDICTION OF CANCER-RELATED MUTATION IMPACT ON PROTEIN ACTIVITY USING MACHINE LEARNING”, Spring 2018.
11. Qiang Hao, M.S. in Computer Science, “Feature Selection and Classification of Post-Graduation Income of College Students in the United States”, Spring 2017.
12. Brittany Norman, M.S. in Artificial Intelligence, “Computational Methods for Categorizing Unstructured Data Related to Pediatric Appendicitis within Electronic Medical Records”, Spring 2017.
13. Shubham Jindal, M.S. in Artificial Intelligence, “Short Text Classification of Clinical Questions”, Summer 2016.
14. Anzah Niazi, M.S. in Artificial Intelligence, “A Study in Human Activity Recognition: Hierarchical Classification and Statistical Analysis”, Co-advisor, Summer 2016.
15. Guangjie Shi, M.S. in Computer Science, “Application of machine learning in malware file classification”, Summer 2016.
16. Pan Huang, M.S. in Computer Science, “Multilingual Text Similarity Analysis in Islamic Texts”, Spring 2016.
17. Aardra Ambili, M.S. in Artificial Intelligence, “Automated Scoring of Integrative Complexity using Machine Learning and Natural Language Processing”, Fall 2014.
18. Akul Dewan, M.S. in Artificial Intelligence, “Predicting Protein stability Change Upon Single Point Mutation Using Multi-Instance Regression: A Local Conformational Analysis Approach”, Fall 2014.
19. Haosha Wang, M.S. in Artificial Intelligence, “Machine Fashion: An Artificial Intelligence Based Clothing Fashion Stylist”, Summer 2014.
20. William Richardson, M.S. in Artificial Intelligence, “Evolutionary Instance Re-sampling for Difficult Data Sets”, Fall 2013.
21. Chul Woo Lim, M.S. in Computer Science, “Using Massively Parallel evolutionary Computation on GPUs for Biological Circuit Reconstruction”, Fall 2013.
22. Shu Zhang, M.S. in Artificial Intelligence, “Evolutionary Accompaniment Systems for Creative Music Generation”, Summer 2013.
23. Ganesh Bonde, M.S. in Artificial Intelligence, “Extracting the Best Features From Multi-company Stock Data to Improve Stock Price Prediction”, Summer 2012.
24. Meng Meng, M.S. in Computer Science, “Automated MRI Prediction of Alzheimer's Disease Development by Machine Learning Methods”, Fall 2011.
25. Rahila Umer, M.S. in Computer Science, “Machine Learning Approaches for the Computer Aided Diagnosis and Prediction of Alzheimer’S Disease Based on Clinical Data”, Summer 2011.
26. Vasim Mahamuda, M.S. in Computer Science, “Analyzing the Performance of Machine Learning Algorithms on Metagenomic data”, Summer 2010.
27. Cesar Koirala, M.S. in Artificial Intelligence, “Comparison of the Effects of Lexical and Ontological Information on Text Categorization”, Summer 2008.
28. Arlo Morrison Lyle, M.S. in Artificial Intelligence, “Baseball Prediction Using Ensemble Learning”, (Spring 2007).
29. Glenn Franklin Matthews, M.S. in Computer Science, “Using Temporal Difference Learning to Train Players of Nondeterministic Board Games”, (Fall 2006).
30. Reyman Rabbani, M.S. in Computer Science, “Predicting Microbial Activity during Composting using Machine Learning Techniques”, (Summer 2006).

31. Eric Stiles, M.S. in Computer Science, "Bone Desktop: A Visualization Tool for the Evaluation of External Skeletal Fixation Proposals", (Spring 2005).
32. Congshan Zhang, M.S. in Computer Science, "Improving GA Performance by Using Maximal Hyber-Rectangle Analysis and Relative Fitness", (Spring 2005).
33. Jaymin Kessler, M.S. in Artificial Intelligence, "Using Genetic Algorithms to Recognize Superpeer Structure in Peer to Peer Networks", (Co-advisor, Fall 2004).
34. Deepti Chafekar, M.S. in Computer Science, "Constrained Multi-Objective Optimization Using Steady State Genetic Algorithms", (Fall 2004).
35. Diptee Mehta, M.S. in Computer Science, "Machine Learning Approaches for Biomaterial Modeling", (Summer 2004).
36. Ning Suo, M.S. in Artificial Intelligence, "Machine Learning Techniques for the Evaluation of External Skeletal Fixations Structures", (Summer 2003).
37. Dmitri Kolychev, M.S. in Computer Science, "Microsatellite Detection and Consensus Sequence Verification by Virtual PCR and Machine Learning", (Summer 2003).
38. Xiao Ni, M.S. in Artificial Intelligence, "Comparisons of Methods for Developing and Using Dynamic Reduced Models for Design Optimization", (Summer 2002).
39. Anil Bahuman, M.S. in Artificial Intelligence, "An Evolutionary Approach to Standard Cell Design Automation", (Co-advisor, Fall 2001).

Member of Advisory Committees: [121 in total]

PhD in CS: 11 ongoing, 23 graduated

Keyang He (ongoing), Chen Chen (ongoing), Qinglin Dong (ongoing), Saurabh Arora (ongoing), Sal Lamarca (ongoing), Hao Peng (ongoing), Delaram Yazdansepas (Fall 2017), Seyed Navid Hashemi (ongoing), Aryabrata Basu (ongoing), Muthukomaran Chandrasekaran (Fall 2017), Roi Ceren (ongoing), Mustafa Nural (Fall 2017), Mohammad Mohebbi (Fall 2017), Sominath Das (ongoing), Karan Sharma (ongoing), Sherrene Bogle (Fall 2015), Khaleefah Aljadaa (Fall 2014), Ekhlas Sonu (Summer 2015), Anirban Mukhopadhyay (Summer 2014), David Luper (Fall 2012), Zhibin Huang (Spring 2011), Haibo Zhao (Summer 2009), Rabia Jafri (Summer 2008), Zhiming Wang (Summer 2008), Dongsheng Che (Summer 2008), Maciej Janik (Summer 2008), Siddhartha Chattopadhyay (Fall 2007), Zhenyu Zhong (Summer 2007), Ananda Chowdhury (Summer 2007), Xingzhi Luo (Summer 2006), Junfeng Qu (Spring 2006), Jacob Martin (Fall 2005), Hongxia Zhao (Rutgers University,Summer 2004).

MS in CS: 7 ongoing, 37 graduated

Nitin Saroha (ongoing), Priyanka Luthra (Fall 2017), Talal Alothman (Fall 2017), Madhura Gadgil (ongoing), Sreekanth Pinjala (ongoing), Arun Kumar (ongoing), Sindhuri Chandrupatla (ongoing), Bo Li (ongoing), Lu Jiang (ongoing), Sara Vahid (Spring 2017), Collin Watts (Summer 2016), Zhe Jin (Summer 2016), Indrajit Das (Summer 2016), Zhaochong Liu (Summer 2016), Sidi Liu (Fall 2015), Sayali Kale (Fall 2015), Ruichen Dai (Fall 2015), Nilayan Bhattacharya (Fall 2014), Chenxiao Fan (Spring 2014), Sagar Tarkhadkar (Fall 2013), Sayali Birari (Summer 2013), Raga Sowmya Tummalapenta (Fall 2012), Anousha Mesbah (Spring 2012), Asmita Rahman (Fall 2011), Carl Animesh Thakre (Summer 2011), Ankur Oberai (Summer 2011), Justin Martin (Summer 2011), Brett Meyer (Spring 2011), Qian Ma (Fall 2010), Qi Li (Fall 2010), Naveed Ahmed (Fall 2010), Sheng Yin (Fall 2009), Sharon Paradesi (Fall 2009), Kartheek Atluri (Fall 2009), Jaim Ahmed (Spring 2009), Durga Yeluri (Summer 2005), William Brown (Spring 2005), Yuchao Zhou (Spring 2005), Karthikeyan Giriloganathan (Spring 2004), Kaan Tariman (Spring 2004), Shrirang Yardi (Summer 2003), Mullai Shanmuhan (Spring 2003), Ruihua Liu (Spring 2001), Nilay Roy (Fall 2000).

MS in AI: 1 ongoing, 45 graduated
Jagadish Kumar (ongoing), Sam Sanders (Fall 2017), Ankita Joshi (Fall 2017), Maulesh Trivedi (Summer 2016), Cameron Hamilton (Spring 2016), Thomas Drapela (Spring 2015), MD Shahnawaz Khan (Spring 2015), Seth Meyerson (Spring 2015), Kedar Marathe (Fall 2014), Matthew Losanno (Summer 2013), Weixin Ling (Fall 2012), Allen Taylor (Summer 2012), Yan Qu (Summer 2011), Nithya Vembu (Spring 2011), Philip Brooks (Fall 2010), Ananta Palani (Spring 2010), Muthukomaran Chandrasekaran (Spring 2010), Eric Drucker (Fall 2009), Karan Sharma (Fall 2008), Xia Qu (Fall 2008), Jeremy Tarver (Summer 2008), Christpher Taylor (Fall 2007), Dennis Perez (Fall 2007), Joe McFall (Summer 2007), Sergey Fogelson (Summer 2007), Kumar Ujjwal (Spring 2007), Rucen Deng (Summer 2006), Julian Bishop (Summer 2006), Steven Cheng (Summer 2006), Srigopika Radhakrishnan (Spring 2006), Daniel Tuohy (Spring 2006), David Boucugnani (Summer 2005), Daniel DeJuan (Summer 2005), Shilpa Hardas (Summer 2005), David Barnhard (Summer 2005), Darren Casella (Spring 2005), Kartini Abd Ghani (Fall 2004), Jason Schlachter (Summer 2004), Xunyu Pan (Summer 2004), Yarong Tang (Fall 2003), Abhishek Jain (Fall 2003), Sanjay Chellapilla (Summer 2003), Ernest Foster (Fall 2002), Lei Wu (Fall 2002), Tong Wang (Spring 2002), Chun Liang (Summer 2001).

MS in Engineering: 1 graduated
Xuewei Qi (Summer 2013).

UNIVERSITY SERVICE:
Director, Institute for Artificial Intelligence (2016 – present).
Graduate Coordinator, Institute for Artificial Intelligence (2003 – 2016).
Chairman of the AI Admissions Committee (2003 – present).
Member of the AI Curriculum Committee (2003 – present).
Member of the Faculty of Engineering (2001 – 2012).
Member of the Institute of Bioinformatics (2008 – present).
Cognitive Science, Undergraduate Degree Program Review Committee (2009 - present).
UGA Graduate Faculty, member since 2003.
Member of the Artificial Intelligence Faculty (Fall 2000 – present).

DEPARTMENTAL SERVICE:
Chair of the CS Undergraduate Programs and Curriculum Committee (2015 – present).
Member of the CS Publications and Web Committee (2015 – present).
Member of the CS Teaching Assignments Committee (2012 – present).
Tea coordinator (2011 – present).
Member of the CS Research Events Committee (2009 – present).
Member of the CS Tenured Faculty Committee (2006 – present).
Director of the Evolutionary Computation and Machine Learning (ECML) lab (2000 – present).
Member of the CS Graduate Programs Committee (2012 – 2015).
Member of the CS Strategic Planning Committee (2011 – 2013).
Member of the CS Equipment Committee (2010 – 2013).
Member of the CS Curriculum Committee (2002 – 2013).
Chair of the CS Research Events Committee (2011 – 2012).
Member of the CS Head's Advisory Committee, (2009-2010).
Member of the CS graduate student recruiting committee (2000, 2001).