Amitava Karmaker

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Education

- o **Ph D Computer Science**
  University of Texas at San Antonio
  San Antonio, TX, 2008
- o **BS Computer Science and Engineering**
  Bangladesh University of Engineering and Technology (BUET)
  Dhaka, Bangladesh, 2003

Work Experience

Academic - Post-Secondary

- **University of Wisconsin-Stout**, Department of Mathematics, Statistics and Computer Science
  Assistant Professor
  Present
- , Department of Computer Science
  Instructor
  Present

Intellectual Contributions

Conference Proceeding

- o Karmaker, A. (2011). EMMA: An EM-based Imputation Technique for Handling Missing Sample-Values in Microarray Expression Profiles. , 2011 International Conference on Bioinformatics & Computational Biology (BIOCOMP).
- o Karmaker, A. (2011). Identification of Transcriptional Regulatory Elements by Functional Enrichment Analysis. , 182-187, 2011 International Conference on Bioinformatics & Computational Biology (BIOCOMP).
- o Karmaker, A. (2009). Analysis of Correlations between Genes and Tetrads of Transcription Factors Using Microarray Expression Profiles. , 148-152, 2009 International Conference on Bioinformatics & Computational Biology (BIOCOMP).
- o Karmaker, A. (2009). Outlier Detection in Spatial Databases Using Clustering Data Mining. , 1657-1658, 2009 Sixth International Conference on Information Technology: New Generations.
- o Karmaker, A. (2009). Providing 'Second Chance' to Students and Improving Retention. , 1672-1673, 2009 Sixth International Conference on Information Technology: New Generations.
- o Karmaker, A. (2008). Analysis of Correlations between Genes and Triads of Transcription Factors Using Microarray Expression Profiles. , 170-174, 2008 International Conference on Bioinformatics & Computational Biology (BIOCOMP).
- o Karmaker, A. (2007). An Approach for Analyzing DNA Copy Number Aberrations in Genome Using aCGH Profiles. , 214-217, 2007 International Conference on Bioinformatics & Computational Biology (BIOCOMP).

- Karmaker, A. (2007). Discovery of Transcription Factors Using Protein Subcellular Localization Prediction and Gene Expression Profile Analysis. , 65-71, 2007 International Conference on Machine Learning: Models, Technologies & Applications (MLMTA).
- Karmaker, A. (2007). Identification of cis-Regulatory Elements from Cross-Genome Comparison and Gene Expression Profile Analysis. , 31-36, 2007 International Conference on Bioinformatics & Computational Biology (BIOCOMP).
- Karmaker, A. (2007). Identifying Correlations between Genes and Transcription Co-factors using Expression Profile. , 206-211, Seventh Atlantic Symposium on Computational Biology and Genome Informatics (CBGI).

Journal Article

- Karmaker, A. (2011). Transcriptional Networks in Epithelial-Mesenchymal Transition. *PLoS ONE*(6), 9.
- Karmaker, A. (2007). An Iterative Refinement Approach for Data Cleaning. *International Journal of Intelligent Data Analysis (IDA), 11*(6).
- Karmaker, A. (2007). CGHsweep: An Algorithm for Analyzing Chromosomal Aberrations in Genome using aCGH Profiles. *In Silico Biology 7*, 56.
- Karmaker, A. (2007). Constructing Human Transcriptional Regulatory Subnets from Cross-Genome Comparison and Gene Expression Profile Analysis. *OMICS: Journal of Integrative Biology, 11*(4), 397-412.
- Karmaker, A. (2007). Identifying Transcriptional Regulatory Elements in the Human and Mouse Genomes Using Tissue-Specific Gene Expression Profiles. *Journal of Integrative Bioinformatics, 4*(2).
- Karmaker, A. (2005). A Boosting Approach to remove Class Label Noise (Extended version), Special issue on 'Ensemble Approaches'. *International Journal on Hybrid Intelligent Systems (IJHIS)*, IOS Press, The Netherlands and Advanced Knowledge International.

Grants, Contracts, and Sponsored Research

Grant

- Christie, D., Bae, W. D., Karmaker, A., & Mason, T. R. Professional Development in Computer Science Education. Sponsored by UW-Stout Professional Development Grant, $3300.

Awards, Fellowships, Honors, and Scholarships

Fellowship

- Travel Fellowship, (2005)
- Doctoral Fellowship, (2003)

Honor

- Dean's Scholarship, (2002)

Scholarship

- Technical Scholarship, (1999)