

GUIHONG WAN

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EDUCATION

The University of Texas at Dallas, Richardson, TX

Ph.D in Computer Science

Jan. 2019 - Exp. 2022

The University of Texas at Dallas, Richardson, TX

M.S in Computer Science

Aug. 2017 - Exp. 2022

South-Central University For Nationalities, Wuhan, China

B.S. in Electronics and Information Engineering

Sep. 2006 - May. 2000

Stanford University, Stanford, CA

Data Mining and Applications Graduate Certificate

May. 2018 - Jun. 2019

RESEARCH INTERESTS

My research interests are in large-scale data mining, graph mining, and machine learning, with specific focus on anomalous pattern detection, feature selection/extraction and efficient algorithms for eigenvalue decomposition.

PUBLICATIONS

Guihong Wan; Haim Schweitzer, “Heuristic Search Algorithms for Approximating of One Matrix in Terms of Another Matrix”, AAAI 2021(under review)

Guihong Wan; Haim Schweitzer, “A Lookahead Algorithm for Robust Subspace Recovery When Irrelevant Data Abound”, AAAI 2021(under review)

Guihong Wan; Haim Schweitzer, “Accelerated Combinatorial Search for Outlier Detection with Provable Bound on Sub-Optimality”, AAAI 2021(under review)

Bokun He; **Guihong Wan**; Rong Jin; Haim Schweitzer, “The Bias Method for Robust Centered Principal Component Analysis”, TKDD (under review, co-first author)

Guihong Wan; Crystal Maung; Chenxu Zhang; Haim Schweitzer, “Fast Distance Metrics in Low-dimensional Space for Neighbor Search Problems”, ICDM 2020

Guihong Wan; Crystal Maung; Haim Schweitzer, “Improving the Accuracy of Principal Component Analysis by the Maximum Entropy Method”, ICTAI 2019

Bokun He; **Guihong Wan**; Haim Schweitzer, “A Bias Trick for Centered Robust Principal Component Analysis (Student Abstract)”, AAAI 2020

Baokun He; Swair Shah; Crystal Maung; Gordon Arnold; **Guihong Wan**; Haim Schweitzer, “Heuristic Search Algorithm for Dimensionality Reduction Optimally Combining Feature Selection and Feature Extraction”, AAAI 2019.

Technical Reviewer

- **Reviewer** Association for the Advancement of Artificial Intelligence (AAAI)
- **Reviewer** International Conference on Tools with Artificial Intelligence (ICTAI)
- **Reviewer** International Conference on Pattern Recognition (ICPR)

WORK EXPERIENCE

Teaching Assistant

Jan. 2019 - Present

The University of Texas at Dallas

Richardson, TX

- Assist in the teaching of following graduate level courses: Machine Learning, Computer Vision, Artificial Intelligence, Data Representation.
- Help students to understand the underlying math, algorithms and projects.

Android Software Engineer

Jul. 2010 - Mar. 2016

Actions Semiconductor Co., Ltd (NASDAQ-ACTS)

Zhuhai, China

- Android Software Engineer in R&D Department.
- Director of the Application Team, in Production Development Department.