

Asif Javed

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Education

Rensselaer Polytechnic Institute Troy, NY
Ph.D, Computer Science, (CGPA 4.0) *expected* 2008.

University of Illinois at Chicago Chicago, IL
M.S., Computer Engg., (CGPA 3.9, C.S. GPA 4.0), May 2004.

University of Engineering and Technology, Lahore Lahore, Pakistan
B.S. in Electrical Engineering (with honors) 2000.

Research Interests

Design and Analysis of Algorithms, Randomized Algorithms, Bioinformatics, Distributed Algorithms, Data Mining.

Publications

- A. Javed and P. Paschou, *Extracting tagging SNPs from Genome-wide Datasets*, **Data Mining for Biomedical Informatics**, workshop held in conjunction with 7th **SIAM Conference on Data Mining**, April 2007.
- P. Paschou, M.W. Mahoney, A. Javed, J.R. Kidd, A.J. Pakstis, S. Gu, K.K. Kidd, and P. Drineas, *Intra- and inter-population genotype reconstruction from tagging SNPs*, **Genome Research**, January 2007.
- P. Drineas, A. Javed, M. Magdon-Ismael, G. Pandurangan, R. Virrankoski, and A. Savvides, *Distance Matrix Reconstruction from Incomplete Distance Information for Sensor Network Localization*, 3rd Annual IEEE Conference on Sensor, Mesh and Ad Hoc Communications and Networks (**SECON**), September 2006.
- A. Javed and A. Khokhar, *Frequent Pattern Mining on Message Passing Multiprocessor Systems*, Distributed and Parallel Databases-An International Journal (**DAPD**), November 2004.
- A. Javed and A. Khokhar, *Scalable Parallel Algorithm for Mining Frequent Patterns on Message Passing Parallel Systems*, ISCA Parallel and Distributed Computing Systems (**PDCS**), August 2003.

Presentations

- *Distance Matrix Reconstruction from Incomplete Distance Information for Sensor Network Localization*, paper presentation at **SECON** 2006 in Sep. 2006.
- *Parallel Frequent Pattern Mining*, poster presentation in **Midwest Database Symposium** in April 2004.
- *Concept of Distributed Digital Signal Processing in Wireless Sensor Networks* for **Multimedia and Scalable Parallel Algorithm Lab**, ECE dept. UIC in April 2004.
- *Parallel Association Rule Mining using Frequent-Pattern Tree data structure* for **IEEE Lahore** in Jan 2003.

Academic Experience

Teaching / Research Assistant

Rensselaer Polytechnic Institute

Courses: Computer Science 1, Models of Computation, Randomized Algorithms

August 2004 - Present

Troy, NY

Teaching / Research Assistant

University of Illinois at Chicago

Courses: Random Signal Processing, Analog Communication Circuits, Computer Architecture digital logic

August 2001 - May 2004

Chicago, IL

Teaching Assistant

Lahore University of Management and Sciences

Courses: Discrete Mathematics, Algorithm Design, Advanced Algorithm Design

Circuits and Systems 1, Algorithms in Computational Biology

August 2000 - August 2001

Lahore, Pakistan

Computer Skills

Operating Systems: Microsoft Windows 98/XP/2000/NT, Unix, Linux, Solaris

Programming Languages: C/C++, Assembly (x86 architecture), Pascal, Basic, Oz

Parallel Programming: MPI 1 & 2, OpenMP

Internet Technologies: HTML, PHP

Tools: Matlab, bash shell scripting, L^AT_EX

Course Projects

- C compiler using lex and yacc
- k-mean clustering and naive bayesian classifier
- Parallel fovection using OpenMP
- Parallel quicksort with load balancing using MPI
- Estimation of optimal processor parameters
- Face detection and recognition using Eigenfaces

Awards

- ★ Senior design project, *Efficient Implementation of RSA algorithm* was awarded **2nd** prize among **250** students.
- ★ Received *National Merit Scholarship* throughout undergraduate studies.

References

- **Petros Drineas**, Assistant Professor, CS dept., Rensselaer Polytechnic Institute
- **Mohammed J. Zaki**, Associate Professor, CS dept., Rensselaer Polytechnic Institute