

Shenoda Guirguis

Research Interests

Data Management: Data Streams Management Systems, Transactions and Cloud Data Management.

Education

Ph.D. in Computer Science	University of Pittsburgh	Expected Aug 2011
Defended Thesis Proposal on April 2010. Dissertation Title: "Scalable Processing of Aggregate Continuous Queries", GPA: 3.792		
M.Sc. in Computer Science	University of Pittsburgh	2010
Project Title: "Adaptive Scheduling of Web Database Transactions"		
M.Sc. in Computer Science	Alexandria University	2006
Thesis Title: "Predicting Itemsets' Support of Association Rules Mining", GPA: 3.75		
B.Eng. in Computers Sc. & Eng.	Alexandria University	2001
Degree: Outstanding, Graduated with degree of honor, Ranked 6th. GPA 3.78		

Awards & Honors

- Best Research Award on 10th Annual CS Day, March 2010.
 - Andrew Mellon Predoctoral Fellowship (2010-2011). Awarded annually to doctoral students of exceptional ability and promise.
 - NSF travel fellowship to attend ICDE 2010, Jan 2010.
 - Runner-up Poster on 9th Annual CS Day, March 2009.
 - Best Poster Award on 8th Annual CS Day, February 2008.
 - A&S Fellowship award, University of Pittsburgh, Spring 2006.
 - Undergraduate Degree of Honor from Computers and Automatic Control Dept., Faculty of Engineering, Alexandria University, July 2001.
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Teaching Experience

Teaching Assistant	CS Dept., University of Pittsburgh
<ul style="list-style-type: none">▪ CS 2550: Advanced DBMS, Spring 2010<ul style="list-style-type: none">○ Graduate level○ Preparing assignments and grading▪ CS 1555: DBMS, Spring 2008 and Fall 2009<ul style="list-style-type: none">○ Undergraduate level○ Recitations, preparing assignments and grading▪ CS 1501: Algorithms Implementation, Spring 2007<ul style="list-style-type: none">○ Undergraduate level○ Recitations	
Instructor	Computer Services Center, St. Mina Church, Alexandria, Egypt
<ul style="list-style-type: none">▪ Visual Basic and Advanced Visual Basic courses, Summer 2002▪ Designed the syllabus, prepared course material and conducted labs for both courses.	

Teaching Assistant

Faculty of Engineering, Alexandria University

- Fall 2001
- Introduction's to Computers lab

Research Experience**Member of the ADMT Lab**

CS Dept., University of Pittsburgh

- Since Summer 2006 – Current
- Involved in the AQSIOS project (<http://db.cs.pitt.edu/group/projects/aqsios>)
- Participated in implementing the group's streams' scheduling schemes, on top of STREAM.
- Working on optimizing the processing of Aggregate Continuous Queries.

Research Internships at NEC Research Lab (summer 2010) & GoldenGate/ Oracle (summer 09 & 08).

Patents

- Shenoda Guirguis, Alok Pareek, Steve Wilkes. System and Method for real-time transactional data obfuscation. Application No. US 61/369,000, filed 7/ 29/2010. (pending)
- Hyun Jin Moon, Shenoda Guirguis, Yun Chi, Junichi Tatemura, V. Hakan Hacigumus. Multi-Tenant Database Management for SLA Profit Maximization. Application No. US 12/985,057, filed on 1/5/2011 (pending)

Publications**Journals**

- Shi-Kuo Chang, Lei Zhao, **Shenoda Guirguis** and Rohit Kulkarni, "A Computation-Oriented Multimedia Data Streams Model for Content-Based Information Retrieval", *Multimedia Tools and Applications Journal*, Springer US, Sep. **2009**.

Conferences and Workshops

- **Shenoda Guirguis** and Alok Pareek, "BronzeGate: Real-time Transactional Data Obfuscation for GoldenGate", Proceedings of the 13th International Conference on Extending Database Technology (*EDBT 2010*) – Industrial Track, Lausanne, Switzerland, March 22-26, 2010
 - Lory Al Moakar, Panos K. Chrysanthis, Christine Chung, **Shenoda Guirguis**^{*}, Alexandros Labrinidis, Panayiotis Neophytou and Kirk Pruhs, "Admission Control Mechanisms for Continuous Queries in the Cloud", Proceedings of 26th IEEE Int'l Conference on Data Engineering (*ICDE 2010*), Los Anglos, CA, USA, Mar 1-6, 2010. *Authors are listed in Alphabetical Order.*
 - **Shenoda Guirguis**, Mohamed Sharaf, Panos Chrysanthis, Alexandros Labrinidis, and Kirk Pruhs, "Adaptive Scheduling of Web Transactions", Proceedings of 25th IEEE Int'l Conference on Data Engineering (*ICDE 2009*), Shanghai, China, Mar 29-April 4 2009.
 - **Shenoda Guirguis**, Panayiotis Neophytou, Panos K. Chrysanthis, Alexandros Labrinidis and Kirk Pruhs, "Expanding Continuous Queries Scope for Better Event Detection", SSPC Wrokshop, St. Louis, Missouri, March 2009.
 - **Shenoda Guirguis**, Rohit Kulkarni and S. K. Chang, "A Multimedia Data Streams Model for Content-Based Information Retrieval", Proceedings of 2008 International Conference on Distributed Multimedia Systems (*DMS 08*), Boston, USA, Sept. 4-6, pages 232-239 , 2008.
 - Mohamed Sharaf, **Shenoda Guirguis**, Alexandros Labrinidis, Kirk Pruhs, and Panos Chrysanthis, Poster Session: "ASETS: A Self-Managing Transaction Scheduler", Self Managing Databases Workshop (*SMDB 08*), 2008.
 - **Shenoda Guirguis**, Khalil M. Ahmed, Nagwa M. El-Makky, and Alaaeldin M. Hafez. "Mining the future: Predicting itemsets' support of association rules mining". In Foundations of Data Mining Workshop (*FDM 06*), **2006**, pages 474–478, 2006.
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