

Curriculum Vitae

AHMED AMER

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EDUCATION

- Ph.D. 2002 University of California, Santa Cruz, Computer Science
Dissertation: Automated Data Grouping
Advisor: Prof. Darrell D. E. Long
- M.S. 1997 American University in Cairo, Computer Science
Thesis: High Performance Distributed Storage Architectures
Advisor: Prof. Amr El-Kadi
- B.S. 1994 American University in Cairo, Computer Science
Summa Cum Laude
Project: Design and implementation of a micro-kernel O.S.

PROFESSIONAL EXPERIENCE

- 1997– Graduate Researcher, Department of Computer Science, University of California, Santa Cruz.
- 1998–01 Summer Research Intern, IBM Almaden Research Center, Almaden, California.
- 1997– IT Infrastructure Specialist, Shell Egypt, N.V.
- 1997–98 Teaching Assistant, Departments of Computer Science & Engineering, University of California, Santa Cruz.
- 1994–97 Exploration & Production Technical Systems Support Specialist, Shell Egypt, N.V.
- 1994–97 Teaching Assistant, Department of Computer Science, The American University in Cairo.
- 1994 Information Analyst, Academic Computing Services, The American University in Cairo.
- 1991–92 Undergraduate Teaching Assistant, Scientific Thinking, The American University in Cairo.

HONORS

- 1999/00 USENIX Fellowship.
- 1997/98 University of California Regents Fellowship.
- 1994 President's Cup, The American University in Cairo.
- 1994 Mohamed M. El-Beleidy Academic Achievement Award.
- 1993,1994 Academic Honour Awards for Outstanding Achievement, Computer Science Department, The American University in Cairo.
- 1992/93 Presidential Scholarship, The American University in Cairo.
- 1991/92, 1993/94 Academic Merit Scholarships, The American University in Cairo.

PUBLICATIONS

Conference Papers

1. Ahmed Amer, Darrell D. E. Long, and Randal C. Burns. "Group-Based Management of Distributed File Caches," *The International Conference on Distributed Computing Systems (ICDCS 2002)*, Vienna, Austria: IEEE, July 2002, *to appear*.
2. Ahmed Amer, Darrell D. E. Long, Jehan-François Pâris, and Randal C. Burns. "File Access Prediction with Adjustable Accuracy," *Proceedings of the International Performance Conference on Computers and Communication (IPCCC 2002)*, Phoenix, Arizona: IEEE, April 2002, *to appear*.
3. Ismail Ari, Ahmed Amer, Ethan L. Miller, Scott Brandt, and Darrell D. E. Long. "ACME: Adaptive Caching using Multiple Experts," *Workshop on Distributed Data and Structures (WDAS 2002)*, Paris, France: Carleton Scientific, March 2002, *to appear*.
4. Ahmed Amer and Darrell D. E. Long. "Aggregating Caches: A Mechanism for Implicit File Prefetching," *Proceedings of the Ninth International Symposium on Modeling, Analysis, and Simulation of Computer and Telecommunication Systems (MASCOTS 2001)*, Cincinnati, Ohio: IEEE, August 2001, pp. 293–301.
5. Ahmed Amer and Darrell D. E. Long. "Noah: Low-cost File Access Prediction Through Pairs," *Proceedings of the International Performance Conference on Computers and Communication (IPCCC 2001)*, Phoenix, Arizona: IEEE, April 2001, pp. 27–33.
6. Alison Luo, Eric P. Lam, and Ahmed Amer. "Texture Classification using Wavelets and Vector Quantization," *Proceedings of the International Symposium on Signal Processing and Information Technology*, Cairo, Egypt: IEEE, December 2001.
7. Alison Luo, Ahmed Amer, Newton Der, Darrell D. E. Long, and Alex Pang. "Visualizing File System Predictability," *Works In Progress at IEEE Visualization 2001*, San Diego, California: IEEE, October 2001.
8. Ahmed Amer and Darrell D. E. Long. "Adverse Filtering Effects and the Resilience of Aggregating Caches," *Proceedings of the Workshop on Caching, Coherence and Consistency (WC3 2001)*, Sorrento, Italy: ACM, June 2001.
9. Ahmed Amer and Darrell D. E. Long. "Dynamic Relationships and the Persistence of Pairings," *Proceedings of the International Workshop on Wireless Networks and Mobile Computing (WNMC 2001)*, Mesa, Arizona: IEEE, April 2001, pp. 502–507.
10. Ahmed Amer, Ghada N. Aly, and Ahmed M. Sameh. "Genetic Algorithms and Scheduling: The Effectiveness of a Plain-Vanilla SGA," *Proceedings of TAINN'96*. Istanbul, Turkey: June 1996, pp. S7–S19.

Miscellanea

1. Ahmed Amer, "Mobile Hoarding and Automated Grouping," *login.*, April 2001, vol. 26, no. 2, pp. 81–83.
2. Ahmed Amer and Amr El-Kadi, "Beating Bottlenecks in the Design of Distributed File Systems," *login.*, December 1996, vol. 21, no. 6, pp. 14–23.

Submitted and Under Revision

1. Alison Luo, Ahmed Amer, Scott Speidel, Darrell D. E. Long, Alex Pang. "Visualizing I/O Predictability," *First International Symposium on 3D Data Processing, Visualization, and Transmission (3DPVT)*, Padova, Italy: IEEE, 2002.

PROFESSIONAL ACTIVITIES

Invited Lectures

November 1998 "RAID Storage Architectures," University of California, Santa Cruz.
Host: Richard Hughey

Peer Review and Referee

- 2001 Conference on File and Storage Technologies (FAST), USENIX.
- 2001 International Symposium on Modeling, Analysis, and Simulation of Computer and Telecommunication Systems (MASCOTS), IEEE.
- 2000–2001 Symposium on Operating Systems Principles (SOSP), ACM.
- 1999–2001 International Conference on Performance, Computing, and Communications (IPCCC), IEEE.
- 1998–1999 USENIX Technical Conference, USENIX.
- 1999 IEEE Workshop on Research Issues in Data Engineering (RIDE), IEEE.
- 1999 International Conference on Distributed Computing Systems (ICDCS), IEEE.
- 1999 The Journal on Special Topics in Mobile Networking and Applications (MONET), ACM.
- 1998 IEEE Symposium on Reliable Distributed Systems (SRDS), IEEE.

Membership in Professional Associations

- Member, Association for Computing Machinery.
- Member, USENIX Association.
- Member, IEEE Computer Society.
- Member, IEEE Information Theory Society.
- Member, IEEE Geoscience and Remote Sensing Society.
- Past-Treasurer and Founding Member, UCSC Chapter of the Association for Computing Machinery.