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Ahmed M. Ayad

Education

1- September 2000 – present

Ph.D. student, Computer Sciences Department, UW-Madison, Madison, WI.
- Expected Graduation date: July 2006.
- GPA: 3.955/4.0 (4.0 in CS courses).
- Passed the qualifying exam in the Database area.
- Passed the preliminary examination in the Database area.
- Minor in Business Administration.

2- May 2002

M.Sc. in Computer Sciences. Computer Sciences Department, UW-Madison, Madison, WI.

3- August 2000

M.Sc. in Computer Sciences. Deptartment of Computer Sciences and Automatic Control, Faculty of Engineering, Alexandria University, Alexandria, Egypt.
- Field of interest: Data Mining.
- Thesis title: "A new algorithm for incremental mining of constrained association rules".

4- July 1997

BSc. Degree in computer sciences. Department of Computer Sciences and Automatic Control, Faculty of Engineering, Alexandria University, Alexandria, Egypt.
- Graduated with degree of honor.
- Came third on a class of 36.
- Cumulative grade of 90%.
- Received a teaching assistance scholarship from the department.

Professional and training experience

1- Spring 2003 – present

Research Assistant – University of Wisconsin – Madison.
Working under the supervision of Professor *Jeffrey Naughton*. The focus of my research is query optimization and approximation techniques for queries over data streams.

2- Summer 2005
Summer Intern – Microsoft Research Redmond – Microsoft Research – Redmond, WA.
Worked with the MSR Database group on supporting statistics on views. Details are pending publication.

3- Summer 2004
Summer Intern – Microsoft Research Redmond – Microsoft Research – Redmond, WA. Worked in the context of MTCache, Microsoft SQL Server's middle-tier cache research prototype. My work involved extending MTCache so that users of the cache are guaranteed to see their own updates. Work done as part of MSR Database group.

4- Summer 2001
Summer Inter – IBM Almaden Research Center – IBM Research – San Jose, CA.
Participated in developing a compiler to translate from a subset of Xquery 2.0 (XPath 2.0) to SQL using Java. Work done as part of the IBM Content Manager group.

Teaching experience

1- August 2000 – Summer 2003
Teaching assistant in the Computer Sciences Department, UW-Madison, Madison, WI.

2- December 1998 – August 2000
Teaching assistant in the Dept. of Computer Sciences and Automatic Control, Faculty of Engineering, Alexandria University, Alexandria, Egypt.

Publications

- Paul Larson, Florian Waas, Ahmed Ayad. Improving Cardinality Estimation Using Feedback Views. *In Preparation.*
- Ahmed M. Ayad, Jeffrey F. Naughton, Stephen Wright, Utkarsh Srivastava. Approximating Streaming Joins Under CPU Limitations. *To appear*, *ICDE 2006, Atlanta*.
- Ahmed M. Ayad, Jeffrey F. Naughton, Stephen Wright, Utkarsh Srivastava. Approximating Streaming Joins Under CPU Limitations. *UW-Madison Technical Report #1542*.
- Ahmed M. Ayad, Jeffrey F. Naughton. Static Optimization of Conjunctive Queries with Sliding Windows Over Infinite Streams. *SIGMOD 2004, Paris*.
- Ahmed M. Ayad, Nagwa M. El-Makky, Yousry Taha. Incremental Mining of Constrained Association Rules. *First International SIAM Conference on Data Mining (SDM01)*, Chicago, April 2001.
- Ahmed M. Ayad. A new algorithm for incremental mining of constrained association rules. MSc. thesis, Dept. of Computer Sciences and Automatic Control, Alexandria University, August 2000.

References

1. Professor Jeffrey F. Naughton
    Professor
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2. Paul Larson, Ph.D.
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    Database Group – Microsoft Research
    Microsoft Corporation
    One Microsoft Way
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3. Professor Raghu Ramakrishnan
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