

# Saleh Al-shomrani

Department of Computer Science  
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## Education

Ph.D.	Computer Science	Kent State University	2008
M.S.	Math/Computer Science	Ohio University	2001
B.Sc.	Computer Science	King Abdulaziz University, Saudi Arabia	1997

## Academic Experience

- *Graduate Assistant (GA)*. Department of Computer Science, King State University, (Fall 2007 – Spring 2008).
- *Graduate Assistant (GA)*. Department of Computer Science, King State University, (Summer 2008 – Fall 2008).
- *OBR Research Assistant (OBR RA)*. Department of Computer Science, King State University, (Fall 2006 – Summer 2007).
- *Graduate Teaching Assistant (TA)*. Department of Computer Science, King Abdulaziz University, Saudi Arabia 1998.

## Ph.D. Advisor

Dr. Paul Wang, Professor. A Ph.D. and faculty member from MIT, Director of Research, ICM/Kent, Department of Computer Science, Kent State University, USA.

## Research Interests & Statement

- Web-based Mathematics Education.
- Database Design, Web Databases, Replication and clustering.
- Web/Internet Technologies.
- Online Distributed Systems and Web Distributed Assessment Systems.
- Online Interactive Tools.
- Internet Standards and Protocols.
- Web Design and Programming.
- E-Commerce.
- E-Learning.
- Internet Security.
- Customization, Interactivity, and Interoperability between Internet-based Systems.
- XML-Based Languages.

## Awards, Funding, and Other Supports

- 2008 Annual Open House, Awards Ceremony, and Poster Conference, Computer Science Department, Kent State University, Kent, USA, Friday 11 April 2008. **2008 Poster Conference Winners in the Business / Industry Category, Graduate level: Second Prize: "DMAS: A Web-based Distributed Mathematical Assessment System by Saleh Al-shomrani"**.  
<http://www.cs.kent.edu/openhouse2008/winners.html>.
- I received the very competitive Research Assistant Grant from Ohio's higher education in the state of Ohio. I received the (**OBR RA**) **Award** from the **Ohio Board of Regents (OBR)** at the Computer Science Department, Kent State University, Fall 2006 – Summer 2007 (\$24,000).

- One April 11 2005, I was selected by the Graduate Student Senate (GSS) in Kent State University for the **Excellence in Research Award in 2005** (\$262).

## **Publications and Scholarly Work**

### **Publications**

- Saleh Al-shomrani "A Web-based Distributed and interoperable tool for sharing Mathematical Assessments and supervising online tests", Ph.D. Dissertation, Computer Science Department, Kent State University, Kent, USA, Fall 2008.
- P. Wang, M. Mikusa, S. Al-shomrani, X. Lai, X. Zou, D. Zeller "*WME: a Web-based Mathematics Education System for Teaching and Learning*", ICME 11- TSG 22 Theme 3 the 11th International Congress on Mathematical Education, Monterrey, Mexico, July 6 -13, 2008.
- Saleh Al-shomrani and Paul Wang "*DMAS: A Web-based Distributed Mathematics Assessment System*", International Conference on Learning 2008, University of Illinois at Chicago, USA, June 3-6, 2008.
- Saleh Al-shomrani and Paul Wang. *Design And Implementation Of An Assessment Database For Mathematics Education*, Proceedings, the 2nd IASTED International Conference on EDUCATION AND TECHNOLOGY (ICET), Calgary, Alberta, Canada, July 17-19, 2006, pp. 173-179.
- S. Al-shomrani and P. S. Wang. Building DMAD: A Distributed Mathematics Assessment Database for WME, *Proceedings of the IEEE Southeast Conference*, IEEE, Ft. Lauderdale, FL, April 8-10 2005, pp. 630-635.
- P. S. Wang, M. Mikusa, S. Al-shomrani, D. Chiu, X. Lai, and X. Zou. Features and Advantages of WME: a Web-based Mathematics Education System, *Proceedings of the IEEE Southeast Conference*, IEEE, Ft. Lauderdale, FL, April 8-10 2005, pp. 621-629.

### **Technical Reports & Non-refereed Articles**

- Saleh Al-shomrani participated in the WME tutorial workshop and poster session conference at ECCAD 2008, East Cost Computer Algebra Day, Shepherd University, Shepherdstown, West Virginia, Saturday, May 9-10, 2008. <http://www.sigsam.org/bulletin/articles/164/eccad.pdf>
- Saleh Al-shomrani "DMAS: A Web-based Distributed Mathematics Assessment System", 2008 Annual Open House, Awards Ceremony, and Poster Conference, Computer Science Department, Kent State University, Kent, USA, Friday 11 April 2008.
- Saleh Al-shomrani attended and participated in the 2007 Celebration of Scholarship (A&S Poster Session) on September 27, 2007, Kent State University.

### **Presentations at Conferences, Symposia, and Workshops**

- P. Wang, M. Mikusa, S. Al-shomrani, X. Lai, X. Zou, D. Zeller "*WME: a Web-based Mathematics Education System for Teaching and Learning*", ICME 11- TSG 22 Theme 3 the 11th International Congress on Mathematical Education, Monterrey, Mexico, July 6 -13, 2008.
- Saleh Al-shomrani and Paul Wang "*DMAS: A Web-based Distributed Mathematics Assessment System*", International Conference on Learning 2008, University of Illinois at Chicago, USA, June 3-6, 2008.

- Saleh Al-shomrani and Paul Wang. *Design And Implementation Of An Assessment Database For Mathematics Education*, Proceedings, the 2nd IASTED International Conference on EDUCATION AND TECHNOLOGY (ICET), Calgary, Alberta, Canada, July 17-19, 2006, pp. 173-179.
- S. Al-shomrani and P. S. Wang. Building DMAD: A Distributed Mathematics Assessment Database for WME, *Proceedings of the IEEE Southeast Conference*, IEEE, Ft. Lauderdale, FL, April 8-10 2005, pp. 630-635.
- P. S. Wang, M. Mikusa, S. Al-shomrani, D. Chiu, X. Lai, and X. Zou. Features and Advantages of WME: a Web-based Mathematics Education System, *Proceedings of the IEEE Southeast Conference, IEEE*, Ft. Lauderdale, FL, April 8-10 2005, pp. 621-629.
- Saleh Al-shomrani and Paul Wang. "Design and Implementation of a Web-based Distributed Mathematics Assessment System", The University Teaching Council (UTC) Conference, November 1-2, 2006, Kent Student Center, Kent State University, USA.
- Saleh Al-shomrani attended and participated in the 2007 Celebration of Scholarship (A&S Poster Session) on September 27, 2007, Kent State University.

### **Technologies/Programming Languages Experience**

- C, C++, Visual C++
- HTTP/1.1
- HTML/XHTML
- Apache 2.2 HTTP Web Server
- JavaScript/ActionScript
- DOM / XML DOM
- JSON
- AJAX
- REST
- XML and CSS
- XSL/XSLT
- DTD and XML Schema
- SVG (Scalable Vector Graph)
- MathML (Presentation code and Content code)
- MySQL/Oracle Databases
- Perl/CGI (Common Gateway Interface)
- PHP (Hypertext Preprocessor)

- CAS (Computer Algebra System)
- CSV (Comma Separator Value)

## Teaching

### Teaching Experience (courses taught)

Course Title	Terms/Dates	Institution
CS 101 Intro to Computer Science.	Fall 1998	King Abdulaziz University, Saudi Arabia
CS 102 Intro to Computer Programming (C & C++)	Fall 1998	King Abdulaziz University, Saudi Arabia
Teaching in High School for 6 months	Fall 1997	Saudi Arabia

### Grading & other Teaching Experience

Course Title/Duties	Terms/Dates	Institution
<b>TA for CS 4/57105 Web Design &amp; Programming I</b>	Fall 2008	Computer Science Dept Kent State University
<b>TA for CS 4/57107 Web Design &amp; Programming Studio</b>	Fall 2008	Computer Science Dept Kent State University
<b>TA for CS 4/57106 Web Design &amp; Programming II</b>	Spring 2008	Computer Science Dept Kent State University
<b>TA for CS 33101 Structure Of Programming Languages</b>	Spring 2008	Computer Science Dept Kent State University
<b>TA for CS 4/57105 Web Design &amp; Programming I</b>	Fall 2007	Computer Science Dept Kent State University
<b>TA for CS 4/57107 Web Design &amp; Programming Studio</b>	Fall 2007	Computer Science Dept Kent State University
Grader for CS 322 Data Structures II	Spring 1998	King Abdulaziz University, Saudi Arabia
Grader for CS 351 OO Programming	Spring 1998	King Abdulaziz University, Saudi Arabia
Grader for CS 461 Operating Systems	Spring 1998	King Abdulaziz University, Saudi Arabia