Shengdong Zhao

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PROFILE

Strong research interests in Human Computer Interaction, Digital Documents and Services. Expertise in gesture and pen-based interaction, gesture-based menus, auditory widgets and interfaces for mobile environment, information visualization, digital documents and digital library.

EDUCATION

University of Toronto, Toronto, ON, Canada
Ph.D. candidate in Computer Science (Human Computer Interaction)   03 - Present
Proposed Dissertation Topic: Elastic Representation Space in Information Visualization

University of California at Berkeley, Berkeley, CA, U.S.A.
Master of Information Management & Systems   01
Thesis Project: DinfoBuilder (Dynamic Information Builder), an XML based next generation information management software.

Linfield College, McMinville, OR, U.S.A.
Bachelor of Science   98
Areas of Concentration: Computer Science, Biology

PUBLICATIONS

Refereed (Full) Conference Paper

4. Shengdong Zhao, Maneesh Agrawala, Ken Hinckley (in press - 2006). Zone and polygon menus: using relative position to increase the breadth of multi-stroke marking menus. To appear in *Proceedings of ACM Conference on Human Factors in Computing Systems (CHI) 2006*.

3. Shengdong Zhao, Michael J. McGuffin, Mark H. Chignell (2005). Elastic hierarchies: combining treemaps and node-link diagrams. *Proceedings of IEEE Symposium on Information Visualization (InfoVis) 2005*. p. 57-64.

2. Shengdong Zhao, Ravin Balakrishnan. (2004). Simple vs. compound mark hierarchical marking menus. *Proceedings of the ACM Symposium on User Interface Software and Technology (UIST) 2004*. p. 33-42. [Received 5,5,5,5 from all reviewers - the highest review score in UIST 2004.]

1. monica c. schraefel., Yuxiang Zhu, David Modjeska, Daniel Wigdor, Shengdong Zhao. Hunter gatherer: interaction support for the creation and management of within-web-page collections *Proceedings of the eleventh international conference on World Wide Web (www) 2002*, Honolulu, Hawaii, USA

Short Papers, Posters & Workshop Papers

3. monica schraefel, Maria Karam, Shengdong Zhao. Listen to the Music: Audio Preview Cues for Exploration of Online Music*. Interact 2003*, Switzerland.

2. monica schraefel, Maria Karam, Shengdong Zhao. Audio Preview Cues: Interaction Aides for Exploration of Online Music and Beyond, *HCI International* 2003

1. monica schraefel, Maria Karam, Shengdong Zhao. mSpace: interaction design for user-determined, adaptable domain exploration in hypermedia, *AH2003: Workshop on Adaptive Hypermedia and Adaptive Web-Based Systems.*

RELATED WORKING EXPERIENCE

Microsoft Research, Redmond, WA, U.S.A.

Research Intern   05

Conducting research and development under Maneesh Agrawala and Ken Hinckley on gesture-based menu techniques. Research result summarized in "Zone and Polygon Menus: using relative position to increase the breadth of multi-stroke marking menus", and to appear in the proceedings of *ACM Conference on Human Factors in Computing Systems (CHI) 2006*.

University of Toronto, Toronto, ON, Canada

Research Associate   01-02

Designing and developing Hunter Gatherer 2 and the mSpace project. Using Java, JavaScript, XML, 3D visualization models.

University of California at Berkeley, Berkeley, CA, U.S.A.

Research Assistant   99-01

Developing behaviors for the Multivalent Document Model of the California Digital Library Project. Writing PDF Media Adaptor, and Multipage Behavior for MVD browser. Developing server side support for Composite Document Model. Using Java, XML, XSL, CSS, DOM, SAX, etc.

Space Machine Inc., Sunnyville, CA, U.S.A.

Intern   00

Managing and training the data operation team to collect and provide e-commerce data for CommerceMap and its related services. Developing features for local Internet e-commerce services. Using Java, Oracle 8i Database, BEA WebLogic Application Server.

SeeUthere.com (now OnVantage Inc.), Mountain View, CA, U.S.A.

Programmer   99

Developing the business logic of the seeUthere.com using ASP/Com and Java technology. Using ASP/Com/Visual Basic, SQL Server, Store Procedure, Visual Source Safe, JavaScript, Java, and CVS.

Lawrence Berkeley National Laboratory, Berkeley, CA, U.S.A.

Computer System Engineer   98 – 99

Developing the "DOE 2000 Electronic Notebook" sponsored by the Department of Energy. Building a tool that enable collaboration and on-line facilitation to revolutionize DOE's ability to solve large, complex problems. Using Java Swing, JavaBean, RMI, JDBC, Multicast, Socket, etc.

TEACHING EXPERIENCE

University of Toronto, Toronto, ON, Canada

Lecturer – "CSC104 The Why and How of Computing."   05

Developed syllabus and overall course structure, and lectured for the first 3 weeks.

Teaching Assistant – "Various Courses"   02,03,04,05

CSC318: The Design of Interactive Media; CSC428: Human Computer Interaction; CSC343: Introduction to Databases.

SKILLS

Programming: Java, C, C++, ASP/Visual Basic, Tcl, Lisp, Pascal, Logo, 3D graphics, etc.
STATS: SPSS, SAS, etc.
OS: Win 95/98/NT/2k, Unix/Linux (FreeBSD, Linux, Solaris), Mac OS X, PalmOS, Phone, etc.
Internet: HTML, XML, XSL, CSS, CGI, Java Script, TCP/IP, Client/Server, P2P, etc.
Database: Oracle, Microsoft Sql Server, PostgreSQL, MySQL, Access, etc.

SERVICE TO RESEARCH COMMUNITY

Paper reviewing:

- ACM Conference on Human Factors in Computing Systems (CHI): 2005, 2006
- Graphic Interface (GI): 2005
- Human-Computer Interaction (Journal)

LANGUAGES

- Chinese (Mandarin) – native language
- English – speak fluently and read/write with high proficiency

References:

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Department of Mechanical & Industrial Engineering
Department of Computer Science
University of Toronto
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Professor Ravin Balakrishnan
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E-mail: ravin@dgp.toronto.edu