

# Curriculum Vitae

## Guangming Xing

### Address:

Department of Computer Science  
Western Kentucky University  
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### Education:

Ph. D in Computer Science September 1997 – December 2001  
Advisor: Dr. Rod Canfield  
Thesis Title: *Construct NFA for Efficient Pattern Matching*  
Department of Computer Science, University of Georgia  
Master Student August 1996 – July 1997  
Graduate School, Chinese Academy of Science  
B.S in Computer Science August 1992 – July 1996  
Department of Computer and Information Sciences, Nankai University

### Professional Experience:

Assistant Professor August 2002 -- present  
Department of Computer Science, Western Kentucky University  
Assistant Professor January 2002 – July 2002  
Department of Math and Computer Science, Albany State University  
Intern August 2000 – February 2002  
Athens Research Facility, Cisco Systems, Inc.  
Teaching Assistant September 1997 – December 2001  
Department of Computer Science, University of Georgia  
Research Assistant August 1996 – July 1997  
Institute of Software, Chinese Academy of Sciences

### Research Interest:

- Automata Theory and Implementation
- Algorithm Design and Analysis
- Semi-Structured Database

### Publications:

[1] Guangming Xing, *Compact Thompson's NFA*, Proceedings of 39<sup>th</sup> Annual ACM SE Conference, March 16-17, 2001, Athens, GA.

- [2] Guangming Xing, *Minimized Thompson NFA*, under review by Journal of Automata, Languages and Combinatorics.
- [3] Guangming Xing, Index XML Data Use Extended Order and Path, Proceedings of 41<sup>st</sup> ACM SE Conference, Savannah, GA.
- [4] Jinhua Guo, Sudha Ramaswamy, Guangming Xing, *A JINI Based Framework for Nomadic Computing*, Proceedings of CNDS 2004, January 18, 2004, San Diego, CA.
- [5] Guangming Xing, A Simple Way to Construct NFA with Fewer States and Transitions, Proceedings of ACM SE Conference, April 1, 2004, Huntsville, AL.
- [6] Guangming Xing, Dongli Zhang, *Refined Extended Preorder Index with Path Information*, Proceedings of International Conference of Information Technology (ITCC) 2004, April 6 2004, Las Vegas, NV.
- [7] Guangming Xing, Bill Tseng, *Extendible Range-Based Numbering Scheme for XML Document*, Proceedings of International Conference of Information Technology (ITCC) 2004, April 6 2004, Las Vegas, NV.
- [8] Guangming Xing, Jinhua Guo, One Practical Range-Based Labeling Scheme for XML Document, Proceedings of 5<sup>th</sup> International Conference on Software Engineering, Artificial Intelligence, Networking, and Parallel/Distributed Computing (SNPD), July 2, 2004, Beijing, China.
- [9] Rod Canfield, Guangming Xing, Approximate Matching of XML Document with Regular Hedge Grammar, draft.
- [10] Dongli Zhang, Guangming Xing, *A CORBA-based Framework for Traffic Monitor in Heterogeneous Network Environment*, to appear in Proceedings of 8th World Multiconference on Systemics, Cybernetics and Informatics (SCI 2004), July 18-21, 2004, Orlando, USA.

### **Other Services:**

- Reviewer for The 7<sup>th</sup> World MultiConference on Systemics, Cybernetics, and Informatics
- Reviewer for The 8<sup>th</sup> World MultiConference on Systemics, Cybernetics, and Informatics
- Member of Program Committee for IKE 2004
- Member of Program Committee for SNPD 2004

### **Courses Taught:**

- Data Structures
- XML Theory and Practice
- Compiler Theory and Design
- Algorithm Design and Analysis
- Operating Systems
- Introduction to Java Programming Language I, II