

Bo Luo

CONTACT INFORMATION

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RESEARCH INTERESTS

- XML and conventional database systems, data management
- Information security and privacy, network security, database security
- Security and privacy in the context of Internet and information retrieval
- Web services, Web-based multimedia technologies and applications

EDUCATION

The Pennsylvania State University, University Park, Pennsylvania USA

Ph.D., Information Sciences and Technology, August 2008

- Dissertation Title: “XML Access Control in Native and RDBMS-based XML Database Systems”
- Advisor: Dr. Dongwon Lee

The Chinese University of Hong Kong, Shatin, N.T., Hong Kong

M.Phil., Information Engineering, December 2003

- Thesis Title: “Video Text Detection and Extraction Using Temporal Information”
- Advisor: Dr. Xiaoou Tang

University of Sciences and Technology of China, Hefei, Anhui, P.R.China

B.E., Electronic and Information Engineering, July 2001

- Thesis Title: “Research on Digital Watermarking Techniques” (in Chinese)
- Advisor: Dr. Nenghai Yu

ACADEMIC AND PROFESSIONAL EXPERIENCES

The University of Kansas, Lawrence, Kansas, USA

Assistant Professor

August 2008 - present

Assistant professor with Department of Electrical Engineering and Computer Science (EECS), and Information and Telecommunication Technology Center (ITTC), The University of Kansas.

IBM Corporation, Silicon Valley Lab, California USA

Summer Internship

May 2007 - August 2007

Summer co-op with DB2 for z/OS XML Core Development & Solutions, IBM Software Group.

IBM Corporation, Silicon Valley Lab, California USA

Summer Internship

June 2006 - August 2006

Summer co-op with DB2 for z/OS Query Semantic and Transformation, IBM Software Group.

The Pennsylvania State University, University Park, Pennsylvania USA

Graduate Student

September 2003 - present

Research assistant at PIKE (Penn State Information, Knowledge and wEb) group. Under the direction of Professor Dongwon Lee, I am working on XML and relational database security.

The Chinese University of Hong Kong, Shatin, N.T., Hong Kong

Graduate Student

August 2001 - July 2003

Research assistant at Multimedia Lab. Under the direction of Professor Xiaoou Tang, I worked on video text detection/extraction, and multimedia information retrieval.

University of Science and Technology of China, Hefei, Anhui, China
Undergraduate Student **September, 1996 - June 2001**

Member of the Multimedia Communications Lab (since 1999) at the Information Processing Center, USTC. I participated in several research projects under the direction of Professor Zhengkai Liu and Professor Nenghai Yu.

PUBLICATIONS

Bo Luo, and Dongwon Lee. On Protecting Private Information in Social Networks: A Proposal. In *Workshop on Modeling, Managing, and Mining of Evolving Social Networks (M3SN) - in conjunction with IEEE ICDE*, Shanghai, China, 2009 (accepted, to appear).

Fengjun Li, **Bo Luo**, Peng Liu, Anna C. Squicciarini, Dongwon Lee, and Chao-Hsien Chu. Defending against Attribute-Correlation Attacks in Privacy-Aware Information Brokering. In *4th International Conference on Collaborative Computing: Networking, Applications and Work-sharing (CollaborateCom)*, Orlando, FL, USA, 2008 (invited paper).

Fengjun Li, **Bo Luo**, Peng Liu, Dongwon Lee, and Chao-Hsien Chu. Automaton Segmentation: A New Approach to Preserve Privacy in XML Information Brokering. In *14th ACM Conf. on Computer and Communication Security (CCS)*, Alexandria, VA, USA, October 2007. Acceptance rate: 18%.

Bo Luo, Dongwon Lee, and Peng Liu. Pragmatic XML Access Control Enforcement using Off-the-shelf RDBMS. In *12th European Symposium On Research In Computer Security (ESORICS)*, Dresden, Germany, September 2007. Acceptance rate: 23%

Yan Xiao, **Bo Luo**, Dongwon Lee. Security-Conscious XML Indexing. In *12th International Conference on Database Systems for Advanced Applications (DASFAA)*, Bangkok, Thailand, April 2007. Acceptance rate: 29%

Fengjun Li, **Bo Luo**, Peng Liu, Dongwon Lee, Prasenjit Mitra, Wang-Chien Lee, and Chao-Hsien Chu. In-broker Access Control: Towards Efficient End-to-End Performance of Information Brokerage Systems. In *Proceedings of IEEE International Conference on Sensor Networks, Ubiquitous, and Trustworthy Computing (SUTC)*, IEEE Computer Society, Taiwan, June 2006. Acceptance rate: 25%

Fengjun Li, **Bo Luo**, Peng Liu, Dongwon Lee, Prasenjit Mitra, Wang-Chien Lee, and Chao-Hsien Chu. In-broker Access Control: Towards Efficient End-to-End Performance of Information Brokerage Systems (Extended version from SUTC 2007). *International Journal on Intelligent Control and Systems, Special Issue on Information Assurance*, 12(4): 283-292, Dec 2007.

Bo Luo, Dongwon Lee, Wang-Chien Lee, and Peng Liu. Deep Set Operators for XQuery. In *Second International Workshop on XQuery Implementation, Experience and Perspectives (XIME-P)*, Baltimore, USA, Jun. 2005.

Bo Luo, Dongwon Lee, Wang-Chien Lee, and Peng Liu. QFilter: Fine-Grained Run-Time XML Access Control via NFA-based Query Rewriting. In *Proceedings of ACM Thirteenth Conference on Information and Knowledge Management (CIKM)*, pp 543-552, Washington D.C., USA, Nov. 2004. Acceptance rate: 19%

Bo Luo, Dongwon Lee, Wang-Chien Lee, and Peng Liu. A Flexible Framework for Architecting XML Access Control Enforcement Mechanisms. In *VLDB Workshop on Secure Data Management in a Connected World (Springer Lecture Notes in Computer Science, vol 3178)*,

pp. 133-147, August 2004.

Kennis Tam, Lam Ching Yu, Dacheng Tao, Hao Liu, **Bo Luo**, and Xiaoou Tang. Content-Based SMIL Retrieval. In *Proceedings of Third International Conference on Image and Graphics (ICIG)*, pp 146-149, IEEE Computer Society Press, 2004.

Bo Luo, Xiaoou Tang, Jianzhuang Liu and Hongjiang Zhang. Video Caption Detection and Extraction Using Temporal Information. In *Proceedings of the IEEE International Conference on Image Processing (ICIP)*, vol. 1, pp. 297-300, Barcelona, Spain, September 2003.

Bo Luo, Xiaogang Wang, and Xiaoou Tang. A World Wide Web Based Image Search Engine Using Text and Image Content Features. In *Proceedings of IS&T/SPIE Electronic Imaging 2003, Internet Imaging IV*, pp. 123-130, Santa Clara, USA, Jan. 2003

Xiaoou Tang, **Bo Luo**, Xinbo Gao, Edwige Pissaloux, and Hongjiang Zhang. Video Text Extraction Using Temporal Feature Vectors. In *Proceedings of IEEE International Conference on Multimedia and Expo (ICME)*, vol. 1, pp. 85-88, Lausanne, Switzerland, Aug. 2002

Bin Xie, **Bo Luo**, and Fengjun Li. *Website Construction Under Linux*, Mechanical Industry Publishing House of China, ISBN 7-111-08156-0, May 2000. (in Chinese)

EXPERIENCES

Vice President, USTC Students Association. May 1998 – Oct. 1999

Captain, USTC debate team. March 1999 – June 1999

We won the runner-up of the *LingYun* Cup debate competition of celebrated universities of China.

Vice President, Department of Electronic Engineering and Information Sciences Student Association. Sept. 1998 – Sept. 1999.

Co-founder and core member of the Linux User Group of USTC.

Head of the R&D group of website *shenghuo168.com* and *ahhouse.com* for *Zhongcheng Network Co. Ltd*(part-time). 1999 – 2000

Exchange visitor selected by the city of Chengdu in the Chengdu–Phoenix sister cities exchange students program (3 out of all high school students in the city). July 1995

PROFESSIONAL SERVICES

External Reviewer: VLDB 2005, ER 2005, CCS 2006, INFOCOM 2007, CIKM 2007, ICDE 2008, WWW 2008

External Reviewer: TKDE, DKE, JDM, Computer & Security