

Ge Fu Ph.D Candidate

Institute of Database and Multimedia Research
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Academic Background

2006.09-2010.12 (expected): Ph.D Candidate. HuaZhong University of Science and Technology
Major: Computer Science and Technology
Advisor: Prof. Yucai Feng, Hong Zhu

2002.09-2006.07: B.Tech. Software Engineering, Xidian University, Xi'An, China, 2006
Major: Software Engineering
Title of the thesis: Design and implementation of an online book sales system
using object relation mapping technology

Research Areas

Trusted Database system
Data Isolation and Trusted Recovery in Database System
Fine Grained Audit in Security Database
Multilevel Security Database
Fine Grained Access Control in Database System

Honors and Awards

Award for the year's Outstanding Ph.D Candidate (2008)
Excellent Paper Award for Ph.D Candidate (2008), for ranking 3 out of 36
Award and first prize scholarship for Master Candidate (2007)
First prize scholarship for undergraduates (2003, 2004, and 2005), for ranking 5 out of 150
Award for the year's Outstanding Undergraduates (2003, 2004, and 2005)

Practice and Working Experience

2006.09-2008.12: Member of a program (*High Level Security DBMS program*), taking charge of the subprogram *Trusted Data Recovery*, financially supported by 863 hi-tech research and development program of China.

2007.09-2008.12: Project manager of a project (*Common Database Security Reinforcement Platform*), financially supported by the PLA General Armament Department.

2006.12-2007.03: Internship at Dameng Database Technology Ltd. (Wuhan, China), team leader of a project (*Dameng Content-based Image Retrieval System*).

2006.01-2007.06: Internship at Top Software Corporation, Chengdu, China. Responsible for the requirement analysis and design of a B2B e-business system.

2005.12-2006.02: Cooperative work with Software Engineering Institute of Xidian University on a military program (*Testing of a T80-637-Z21 Chipset*).

Academic Activities

- Organization Committee of the 2010 Workshop on RFID Security (RFIDsec'10 Asia).
- Reviewer of 11th International Conference on Information and Communication Security (ICICS 2009).
- Reviewer of 12th International Conference on Information Security and Cryptology (ICISC 2009).
- Reviewer of 5th ACM Symposium on Information, Computer and Communications Security (ASIACCS 2010).
- Reviewer of International Symposium on Engineering Secure Software and Systems (ESSoS'10).
- Reviewer of 3rd Special Issue on Security and Management in Journal of the Network and Systems Management.
- Participated in the 3rd Asia-Pacific Trusted Infrastructure Technologies Conference (APTC2008, Wuhan, China), and make a speech entitled "Fine grained transaction log for data recovery in database systems".
- Attended the 12th International Database Engineering and Applications Symposium (IDEAS08, Coimbra, Portugal), and did an academic report on the topic "Dynamic recovery for database systems".
- Secretary-general of the Ph.D Forum of HUST Database and Multimedia Technology Research Institute. The Forum provides a platform for Ph.Ds to share their ideas and discuss academic issues encountered in their research.
- Teaching experience on the subjects of C Programming language, Discrete Mathematics, for undergraduate students.
- Teaching experience on the subject of The Concepts and Application of Database Systems, for senior middle school students. Topics include logical design and physical design, and implementation using MS Visual Foxpro.

Research Activities and Projects

- A Security Framework for EPCglobal Network. Sponsored by A-Star Public Sector R&D Projects (SERC Grant No. 082 101 0022), Project member.
- Trusted Recovery for Database Systems, 863 hi-tech research and development program of China, Team member.
- Common Database Security Reinforcement Platform (DSRP), Project Manager.
- Dameng Content-based Image Retrieval System (DMIR), Team Leader.

Experimental Skills and Competences

Proficient in JAVA, C++, JSP, SQL, ODBC/JDBC.

Proficient in database technology, especially, Oracle DBMS, DM DBMS.

Knowledge of Linux operating system.

Fluent in both English and Chinese Mandarin languages.

Hobbies

Singing, Electronic Sports, Swimming, Basketball, Reading & Writing.

References

Assistant Prof. Dr. Yingjiu Li

School of Information Systems, Singapore Management University.

Contact: yjli@smu.edu.sg.

Prof.Dr.Yucai Feng

Dameng Database Technology Corporation.

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Prof.Dr.Hong Zhu

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Dean, Prof.Dr.Zhongsheng Cao

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Selected Publications

- [1] Ge Fu, Hong Zhu, Yucai Feng. "Dynamic Data Recovery for Database Systems Based on Fine Grained Transaction Log". 12th International Database Engineering and Applications Symposium, IDEAS08. Coimbra, Portugal, Sep. 2008. (Acceptance Rate=21.4%)
- [2] Ge Fu, Hong Zhu, Yucai Feng. "Fine Grained Transaction Log for Data Recovery Systems in Database Systems". International Forum on Trusted Infrastructure Technologies and 3rd Asia-Pacific Trusted Infrastructure Technologies Conference. Wuhan, Hubei, P.R.China. Oct. 2008. (Acceptance Rate=18.0%)
- [3] Ge Fu. "DSRP: An attack resistant and fault tolerant platform for database systems". *Journal of Information Science* (in review).
- [4] Hong Zhu, Yi Zhu, and Ge Fu. "Formal Analysis on an Extended Security Model for Database Systems". Wuhan University Journal of Natural Science. Vol.13 No.5, 001-005. 2008.
- [5] Hong Zhu, Yi Zhu, and Ge Fu. "Formal Specification and Verification of an Extended Security Policy Model for Database Systems". International Forum on Trusted Infrastructure Technologies and 3rd Asia-Pacific Trusted Infrastructure Technologies Conference. Wuhan, Hubei, P.R.China. Oct. 2008. (Acceptance Rate=18.0%)