

# GUOQIANG LI

Assistant Professor, PhD.

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## Work Experience

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Assistant professor	School of Software, Shanghai Jiao Tong University 2009.4 –
Liaison Staff	Bureau of International Cooperation, NSFC 2009.12 – 2010.12
Posdoc researcher	NCES, Graduate School of Information Science, Nagoya University, 2008.4 – 2009.3
Teacher Assistant	Department of Physics, Shanxi Datong University, 2001.9 – 2002.9

## Education Background

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PhD.	Major in Formal Verification, School of Information Science, Japan Advanced Institute of Science and Technology. 2005.4– 2008.3
MSc.	Major in Computer Software and Theory, Department of CST, Shanghai Jiao Tong University. 2002.9–2005.3
BSc.	Major in Computer Software, Department of CST, Taiyuan University of Technology. 1997.9–2001.7

## Research Interests

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Formal Verification, Programming Language Theory, Software Engineering Theory

## Selected Research Projects

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2012.1-2014.12 Methodology of Program Analysis Based on Automata Model Checking with Time Issues. NSFC, 61100052

## Selected Publications

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Guoqiang Li, Xiaojuan Cai, Shoji Yuen. Modeling and Analysis of Real-Time Systems with Mutex Components. International Journal of Foundations of Computer Science (IJFCS), 2012, accepted

Guoqiang Li, Yonggen Gu, Xiuting Tao, and Jie Tao. A Game Theoretic Model and Tree Analysis Method for Fair Exchange Protocols In Proceedings of the 5th IEEE International Symposium on Theoretical Aspects of Software Engineering (TASE'11), IEEE Society, 243-246, 2011

Guoqiang Li, Xiaojuan Cai, Shoji Yuen. Modeling and Analysis of Real-Time Systems with Mutex Components. In Proceedings of the 24th IEEE International Parallel and Distributed Processing Symposium, Workshops and Phd Forum (APDCM'10 @ IPDPS'10), IEEE Society, 1-8, 2010

Guoqiang Li, Shoji Yuen, Masakazu Adachi. Environmental Simulation of Real-Time Systems with Nested Interrupts. In Proceedings of the 3rd IEEE International Symposium on Theoretical Aspects of Software Engineering (TASE'09), IEEE Society, 21-28, 2009

Guoqiang Li, Mizuhito Ogawa. Authentication Revisited: Flaw or Not, the Recursive Authentication Protocol. In Proceedings of the 6th International Symposium on Automated Technology for Verification and Analysis (ATVA'08), LNCS 5311, 374-385, 2008

Guoqiang Li, Mizuhito Ogawa. On-the-fly Model Checking of Fair Non-repudiation Protocols. In Proceedings of the 5th International Symposium on Automated Technology for Verification and Analysis (ATVA'07), LNCS 4762, 511-522, 2007

Guoqiang Li, Mizuhito Ogawa. On-the-fly model checking of security protocols and its implementation by Maude. IPSJ Transactions on Programming, Vol.48, No. SIG 10(PRO 33), 50-75, June 2007 (also appear in IPSJ Digital Courier, Vol.3, 343-368, 2007)

Xiuting Tao, Yonggen Gu and Guoqiang Li. A Formal Game-Theoretic Model for Rational Exchange Protocol. Advanced Materials Research, Vol. 204-210, 2033-2040, 2011

Chen Chu, Guoqiang Li. An Efficient Algorithm for Automatic Equational Unifier Generator. In Proceedings of the 2nd International Conference on Progress in Informatics and Computing conference (PIC'10), IEEE Society, 2010

Huaiyang Zhou, Guoqiang Li. Modelling and Analysis of Real-time Systems on Multi-Core Processors. In Proceedings of the 2nd International Conference on Information Science and Engineering (ICISE'10), IEEE Society, 2010

Fei Yu, Guoqiang Li, Naixue Xiong. Schedulability Analysis of Multi-Processor Real-Time Systems using UPPAAL. In Proceedings of the 2nd International Conference on Information Science and Engineering (ICISE'10), IEEE Society, 2010

## **Academic Activities**

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### Local Chair

The 1st-5th NSFC-JSPS Joint Workshop on Formal Methods (2008-2012)

The Eighth Asian Workshop on Foundation of Software (AWFS'10)

### Poster Session Chair

The Eighth Asian Symposium on Programming Languages and Systems (APLAS'10)

### PC Member

The 14th Workshop on Advances in Parallel and Distributed Computational Models (APDCM'12)

The 3rd International Workshop on Parallel and Distributed Algorithms and Applications (PDAA'11)

The 2nd International Conference on Networking and Computing (ICNC'11)

The 13th Workshop on Advances in Parallel and Distributed Computational Models (APDCM'11)

The 2nd International Workshop on Parallel and Distributed Algorithms and Applications (PDAA'10)

## **Hobbies**

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Write novels, read books