

Dr. Yujian (Jullianne) Fu

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Professional Background

Assistant Professor Fall 2007 – Present, Alabama A&M University, Normal, AL, USA
Ph.D Florida International University, Miami, Florida, USA (Ph.D)
M.S. NanKai University, Tian Jin, P. R. China (M.S.)
B.A. Tianjin Normal University, Tianjin, P.R.China (B.A.)

Research Interests

Software engineering, software and network security. Specialized areas of interest: software design, verification and validation, software testing, formal methods, software architecture.

Journal Papers, Book Chapters, Refereed Conference/Workshop Papers (partial list)

- [1] Yujian Fu, etc.. *A Translator of Software Architecture Design from SAM to Java*. International Journal of Software Engineering and Knowledge Engineering. Vol. 17 No. 6, 2007.
- [2] Yujian Fu, etc.. *An Evolutional Software Architecture Model*. Special Issue of International Journal of Software Architecture. Accepted.
- [3] Yujian Fu, etc.. *Formalizing UML Architecture Description*. Petri Net, Theory and Application, pp 497-524. Edited by Vedran Kordic, ISBN 978-3-902613-12-7, I-Tech Education and Publishing.
- [4] Yujian Fu, etc.. *Integrated Verification Software Architecture Model*. In the Proceedings of International Conference of Software Engineering and Practice, Las Vegas, Jul 13-16, 2009.
- [5] G. Argote-Garcia, Yujian Fu, etc.. *A Formal Approach for Translating SAM Architecture to PROMELA*. In Proceedings of SEKE'08: Nineteenth International Conference on Software Engineering and Knowledge Engineering. San Francisco, USA, July 1-July 4, 2008.
- [6] Yujian Fu, etc.. *Towards Rewriting Semantics of A Software Architecture Model*. The 8th International Conference of Quality Software, Oxford UK, Aug 12-13 2008.
- [7] Yujian Fu, etc.. *A Method of Validating Translation from SAM to Java*. In Proceedings of SEKE'07: Nineteenth International Conference on Software Engineering and Knowledge Engineering. Boston, USA, July 9 - July 11, 2007.
- [8] Yujian Fu, etc.. *A Method for Realizing Software Architecture Design*. In Proceedings of QSI06: Sixth International Conference on Quality Software. Beijing, China, October 26 - 28, 2006.
- [9] Yujian Fu, etc.. *Validating and Automating Composition of Web Services*. In Proceedings of ICWE06: Sixth International Conference on Web Engineering, pages 217 - 224, Palo Alto, CA, USA, July 10-14, 2006. (Best Paper Session)
- [10] Yujian Fu, etc.. *An Approach to Web Services Oriented Modeling and Validation*. In Proceedings of ICSE06 workshop: The 2006 International Workshop on Service Oriented Software Engineering, Shanghai, China, May 27-28, 2006.
- [11] Z. Dong, Yujian Fu, etc.. *A Framework for Component-based System Modeling*. In Proceedings of SEKE'06: The eighth International Conference on Software Engineering and Knowledge Engineering, pages 290 - 295, San Francisco Bay, CA, USA, July 5-7, 2006.
- [12] Z. Dong, Yujian Fu, etc.. *An Integrated Runtime Monitoring Framework for Software Architecture Model Verification*. In Proceedings of The 9th IASTED International Conference on Software Engineering and Applications, Phoenix, AZ, USA, pages 106 - 111, November 14-16, 2005.
- [13] Yujian Fu, etc.. *Formalizing and Validating UML Architecture Description of Web Systems*. In Proceedings of ICWE06 workshop: Model-Driven Web Engineering (MDWE'06), Palo Alto, CA,

USA, July 10-14, 2006.

[14] Yujian Fu, etc.. *An Approach to Validation of Software Architecture Model*. In Proceedings of APSEC05: twelfth Asia-Pacific Software Engineering Conference (APSEC), December 15-17, 2005, Taipei, Taiwan, China. (acceptance rate: 25%)

[15] Z. Dong, Yujian Fu, etc.. *Automated Runtime Validation of Software Architecture Design*. In Proceedings of 2nd International Conference on Distributed Computing & Internet Technology (ICDCIT 2005), Lecture Notes in Computer Science, Vol. 3816, pages 446 - 457, Bhubaneswar, India, December 22-24, 2005. (acceptance rate: 15%)

Presentations

[1] *Dynamic Analysis of Software Architecture Model*, Department of Computer Science, Florida A&M University, Feb 4, 2009 (Invited Talk)

[2] *Software Design Quality Assurance*, Department of Computer Science, University of Alabama At Nov 9, 2007 (Invited Talk)

[3] *An Integrated Framework for Ensuring the Quality of Software Design*. School of Computing and Information Science, September 22, 2006.

[4] *A Framework for Component-based System Modeling*. SEKE'06: The eighth International Conference on Software Engineering and Knowledge Engineering, San Francisco Bay, CA, USA, July 5-7, 2006.

[5] *Formalizing and Validating UML Architecture Description of Web Systems*. ICWE06 workshop: Model-Driven Web Engineering (MDWE'06), Palo Alto, CA, USA, July 10-14, 2006.

[6] *Validating and Automating Composition of Web Services*. ICWE06: Sixth International Conference on Web Engineering, Palo Alto, CA, USA, July 10-14, 2006.

[7] *A Method for Modeling Object-Oriented Systems with PZ nets*. SEKE'06: The eighth International Conference on Software Engineering and Knowledge Engineering, San Francisco Bay, CA, USA, July 5-7, 2006.

[8] *Achieving a Better Middleware Design through Formal Modeling and Analysis*. SEKE'06: The eighth International Conference on Software Engineering and Knowledge Engineering, San Francisco Bay, CA, USA, July 5-7, 2006.

[9] *An Integrated Runtime Monitoring Framework for Software Architecture Model Verification*. In Proceedings of The 9th IASTED International Conference on Software Engineering and Applications, Phoenix, AZ, USA, November 14-16, 2005.

[10] *A Methodology to Translate SAM to ArchJava*. Center for Advanced Distributed System Engineering, School of Computing and Information Sciences, FIU, 2004.

Honors and Awards

Recipient of Fellowship of WISE 2009 (Women's Institute in Summer Enrichment), supported by TRUST program founded by NSF

Recipient of the Faculty Travel Grant of ACM SEES program 2008 from NSF

Recipient of the Faculty Travel Grant of ACM SIGCOMM 2008 from NSF

Nominated to Microsoft Research: New Faculty Fellowship Program 2008

Dean's Awards, College of Engineering and Computing (2007, FIU)

Dissertation Year Fellowship (2007, FIU)

Outstanding Graduate Academic Achievements Awards, School of Computing and Information Science (2006, FIU)

Excellence Awards, School of Computing and Information Science (2005-2006, FIU)

Best Paper Nomination in ICWE'06

Graduate Assistantship (2001-2004, FIU)

Professional Activities

- Project:
 - PI, Title III mini-grant "Architecture-driven Embedded System Evolution", 2009
- Reviewer for:
 - Journal of Systems and Software
 - IEEE Transactions on Systems, Man and Cybernetics, Part C
 - International Journal of Software Architecture

- International Journal of Software Reuse
- American Society for Engineering Education 2008
- IEEE Transactions on Software Engineering
- International Journal of Intelligent Control and Systems
- IEEE Transactions on Robotics and Automation
- The Computer Journal
- International Conference on Applications and Theory of Petri Nets
- International Conference on Software Engineering and Knowledge Engineering
- International Conference on Quality Software
- International Conference on Information Reuse and Integration
- International Conference on Web Service
- AAMU Annual STEM DAY committee 2009
- Thesis committee of 3 Master students

Affiliations

Member of ACM
Member of IEEE Computer Society
Member of ASEE