Published
Technical Books
and Journals

Technical Books:

- *"Object-Oriented Software Testing"*, published by *IEEE Computer Society Press*, 1998. (Co-edited with Dr. David Kung and Dr. Pie Hsia) This is the first book on this subject in the market 1998.

- *"Testing and Quality Assurance for Component-Based Software"*, published by Artech House Inc., 2003. (Co-authored with Dr. Jacob Tsao and Dr. Ye Wu). This is the first book on this subject in the market 2003. It has been listed in the publisher's best-seller list in 2004 and 2005.

- *"Engineering Wireless-Based Software Systems"*, published by Artech House Publisher, August 2006. (Co-authored with Dr. Simon Shim, Dr. Hsing Mei, and Dr. Xiao Su). This is the first book on engineering wireless application systems on the market.

Journal and Conference Proceeding Editing:

- Co-Editor for the Proceedings of IEEE International Symposium on Mobile Computing, Cloud Service and Engineering (MobileCloud2013), March 25-28, 2013

- Co-Editor for the Proceedings of IEEE 6th International Symposium on Service-Oriented System Engineering (SOSE2011), December, 2011. (CSI/ISIA/CMCI/INSPEC/CA)

- Hong Zhu and Jerry Gao, Special Issue: "**Advances in Service-Oriented System Engineering**", to be published in 2013.

- Shi-Kuo Chang, Jerry Gao and Paolo Nesi , Special Issue: **In Memory of Dan Cooke**; International Journal of Software Engineering and Knowledge Engineering (IJSEKE), December, 2011. (CSI/ISIA/CMCI/INSPEC/CA)

- Co-Editor (with Henry Muccini and Xiaoying Bai) for a special issue on "Software test automation practice and standardization", **International Journal of Software Engineering and Knowledge Engineering (IJSEKE)**, December, 2011. (CSI/ISIA/CMCI/INSPEC/CA)

- Co-Editor for the proceedings of **The IEEE Sixth International Symposium on Service-Oriented System Engineering (IEEESOSE2011),** 2011.

- Co-Editor for the proceedings of **The 7th International Workshop on Mobile Commerce and Healthcare Services (WMCS2011),** September 21-23, 2011, Hualien, Taiwan.

- Co-Editor for the proceedings of **The 6th International Workshop on Mobile Commerce and Services (WMCS2010),** May 12-13, 2010, Hualien, Taiwan.

- Co-Editor for a special issue on **Software Test Automation, Advances in Software Engineering,** Vol. 2010, Article ID 163746, 2010. doi:10.1155/2010/163746. http://www.hindawi.com/journals/ase/contents.html

- Co-Editor for the proceedings of **The Twenty-Second International Conference on Software Engineering and Knowledge Engineering (SEKE 2010)**, 2010.

- Co-Editor for the proceedings of **The 5th International Workshop on Mobile Commerce and Services (WMCS2009),** June 4-6, 2009, Qingdao, China.

- Co-Editor for the proceedings of **The 4th International Workshop on Mobile Commerce and Services (WMCS2008)**, Kunming, China, May 25-28.

- Co-Editor for the Special Issue on Testing and Quality Assurance for Component-Based Software for the **International Journal of Software Engineering and Knowledge Engineering**. This special issue was published in Volume 17, No. 3, 2007. (CSI/ISIA/CMCI/INSPEC/CA)

- Co-Editor for the Special Issue on Mobile Commerce and Services in **Journal for Theoretical and Applied Electronic Commerce Research**. This special issue was published in Volume 2/Issues 2, August 2007. (INSPEC/ISJ/DOAJ/LD/DBLP/ACM Portal/SciELO/CSA/PROQUEST/EBSCO/SCOPUS/DIALNET)

- Co-Editor for the Special Issue on **Wireless Commerce and Services in Journal of E-Commerce Research and Application**, published in 2006 (INSPEC/ISJ/DOAJ/LD/DBLP/ACM Portal/SciELO/CSA/PROQUEST/EBSCO/SCOPUS/DIALNET)

- Co-Editor for the Proceedings of **Second IEEE International Workshop on Wireless Commerce and Services**, Published by IEEE Computer Society, in July 2005. (EI-Index) (URL: http://ieeexplore.ieee.org/xpl/mostRecentIssue.jsp?punumber=10558)

- Co-Editor for the Proceedings of the **Eighth International Conference on Young Computer Scientists (ICYCS 05)**, published in Sept. 2005.

Research Articles in Peer-Reviewed and Archived Journals:

- **Chuanqi Tao**, Bixin Li, Jerry Gao. "CIA-Based Regression Test Case Update For Component-Based Software," Submitted to Journal of Computers. [EI Index]

- Xiaoying Bai, Muyang Li, Bin Chen, and Jerry Gao,Wei-Tek Tsai, "Cloud Testing: Architecture, Techniques, and Tools", Submitted to ACM Computing Survey, 2012.

- **Chuanqi Tao**, Bixin Li, and Jerry Gao, "A model-based framework to support complexity analysis for component-based software", submitted to Information-An International Interdisciplinary Journal [**SCI** Index]

- **Chuanqi Tao**, Bixin Li, Jerry Gao, "构件软件中可配置架构的 测试建模和复杂性分析", 已投电子学报 [E**I Index**]

- **Chuanqi Tao**, Bixin Li, and Jerry Gao. "A State-based Approach to Regression Testing of Component-based Software", JOURNAL OF SOFTWARE, VOL. 8, NO.3, MARCH 2013. [**EI Index**]

- Chuan-Qi , Tao Bi-Xin Li, Jerry Gao, "Model-Based Change Impact Analysis for Component-Based Software", Accepted by Software Journal (Chinese), 2012,

- Siriphat Oumtrakul, Natharin Chanuntawaree, Jerry Gao, Hsing Mei, and Frank Zhang ", AdTouch: A 2D-Barcode Based Mobile Advertising Service System", **Journal of Internet Technology**, Vol. 13 No. 2, P.337-350 (2012/3), 2012. (Journal version)
(URL: http://jit.ndhu.edu.tw/jitcontent2.php?getserial=778&Vol2=13&No2=2)

- Jerry Gao, Xiaoying Bai, W. T. Tsai, "Cloud-Testing - Issues, Challenges, Needs and Practice", **Software Engineering: An International Journal (SEIJ),** Vol. 1, September, 2011.

- David Kuo, Daniel Wong, Jerry Gao, and Lee Change, "A 2D Barcode Validation System for Mobile Commerce", **International Journal of Handheld Computing Research,** April-June 2011, Vol. 2 and No. 2. (URL: http://www.igi-global.com/article/international-journal-handheld-computing-research/53853)

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- Jerry Gao and Sami Beydeda, Special Issue on Component-Based Software Testing, **International Journal on Software Engineering and Knowledge Engineering,** 2007. (SCI)

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- **Jerry Gao**, Axel Küpper, **Emerging Technologies for Mobile Commerce**, Editorial, Journal for Theoretical and Applied Electronic Commerce Research, August 2006, http://www.jtaer.com/.

- **Jerry Zeyu Gao**., Jacky Cai, Min Li, and Sunitha Magadi Venkateshi, "**Wireless Payment – Opportunities, Challenges, and Solutions",** Published by **High Technology Letters,** Vol. 12, ISSN 1006-6748, 2006**.**
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- Magdalene Ting and Jerry Gao, "Web-based Authoring Tool for e-Salesman System", Proceedings of the 2005 IFIP International Conference on Embedded And Ubiquitous Computing (EUC-05), Nagasaki, Japan, 6-9 December 2005. Published by Springer's Lecture Note in Computer Science (LNCS).
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- **Jerry Gao**, C. Chen, Y. Toyoshima, D. Kung, and P. Hsia, "Identifying polymorphism change and impact in OO software maintenance," *Journal of Software Maintenance: Research and Practice*, Vol. 8, No. 6, Nov./Dec, 1996. (AS/ASP/CSA/CCI/SCI/COMPENDEX)

- D. Kung, **Jerry Gao**, P. Hsia, F. Wen, Y. Toyoshima, and C. Chen, "On regression testing of object-oriented programs," *Journal of Systems and Software*, Vol. 32, No. 1, pp. 21-40, Jan. 1996. (SCI/CR/CA/CSA/INSPEC). (Citation count: 147 in Google Scholar)

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- P. Hsia, J. Samuel, **Jerry Gao**, D. Kung, Y. Toyoshima, and C. Chen, "A formal approach for scenario analysis," *IEEE Software,* Vol. 11, No. 2, pp. 33-41, March 1994. .(SSCI/INSPEC/CLI/BMT/ASTI/CA/AHCI) (Citation count: 223 in Google Scholar)

Referred Articles in Book Series:

- Xiaoying Bai, Jerry Gao, and Wei-Tek Tsai, "Cloud Scalability Measurement and Testing", Collected in the book, titled as "Software Testing in the Cloud: Perspectives on an Emerging Discipline (by Scott Tilley and Tauhida Parveen), published by IGI Global, in 2012.

- Jerry Gao, Xiaoyang Bai, and Wei-Tek Tsai, "Understanding the Testability of SOA-based systems", Collected in the book, titled as "Engineering of SOA-Based Systems", which will be published by Springer Large Publisher in 2011. **(EI-Index)**

- Jerry Gao, Jacky Cai, "Wireless Payment and Systems", Collected in the book, titled as "**Handbook on Mobile and Ubiquitous Computing: Innovations and Perspectives**", which is published by the American Scientific Publishers in 2011.

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- D. Kung, **Jerry Gao**, P. Hsia, C. Chen, and Y. Toyoshima, "Change impact identification in object-oriented software maintenance," Collected in the book, titled as "**Software Change Impact Analysis**" (Edited by Robert S. Arnold and Shawn A. Bohner), IEEE Computer Society Press, 1996. (EI-Index) (Citation count: 144 in Google Scholar)

Research Papers in Referred International Conferences and Workshops	- Xiaoying Bai, Muyang Li, Xiaofei Huang, Wei-Tek Tsai, and Jerry Gao, "Vee@Cloud: the Virtual Test Lab on the Cloud", Automation of Software Testing (AST), May. 18 ~ 19, 2013. (In conjunction with 35th International Conference on Software Engineering (ICSE'13), San Francisco, CA, USA, May 2013.

- Ruay-Shiung Chang, Jerry Gao, Volker Gruhn, Jingsha He, George Roussos, Wei-Tek Tsai, "Mobile Cloud Computing Research – Issues, Challenges, and Needs", the proceedings of International Symposium on Mobile Cloud, Computing and Service Engineering, San Francisco Bay, California, March 25 - March 28, Hotel Sofitel, IEEE Computer Society Press, 2013.

- Jerry Gao, Xiaoying Bai, W. T. Tsai, and , Tadahiro Uehara, "SaaS Testing on Clouds – Issues, Challenges, and Needs", the proceedings of International Workshop on Software Testing in the Cloud, San Francisco Bay, California, March 25 - March 28, 2013, Hotel Sofitel, IEEE Computer Society Press, 2013.

- Jerry Gao, Xiaoying Bai, W. T. Tsai and Tadahiro Uehara, "Testing as a Service (TaaS) for SaaS Applications on Clouds", the proceedings of 7th International Symposium on Service Oriented System Engineering, March 25 - March 28, 2013, Hotel Sofitel, San Francisco Bay, USA.

- Mazedur Rahman, Jerry Gao, and Wei-Tek Tsai, "Energy Saving Solutions in Mobile Cloud", the proceeding of IEEE International Conference on Cloud Engineering (IC2E), March 25-27, 2013, San Francisco, California, USA.

- Jerry Gao, K. Manjula, R. Penmetsa, and E. Sumalatha, Xiaoying Bai, W. T. Tsai, and Tadahiro Uehara, "A Cloud-Based TaaS Infrastructure with Tools for SaaS Validation, Performance and Scalability Evaluation", Proceedings of IEEECloudCom2012, Taiwan, 2012.

- Bixin Li, Chuanqi Tao, Jerry Gao, "Test Modeling and Complexity Analysis for Configurable Architecture in Component-Based Software", Proceedings of SAT2012. (EI-Index)

- W. T. Tsai, Yu Huang, X. Bai, and Jerry Gao, "Scalable Architecture for SaaS", RTSOAA 2012. Proceedings of The Fifth IEEE International Workshop on Real-Time Service-Oriented Architecture and Applications, 2012.(EI-Indexed)

- Jerry Gao, Pushkala Pattabhiraman, Xiaoying Bai and W. T. Tsai, "SaaS Performance and Scalability Evaluation in Clouds", Proceedings of the Sixth IEEE International Symposium on Service-Oriented System Engineering (SOSE2011), Irvine, California, USA, 2011. (EI-Indexed)

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- Jerry Gao, Jing Guan, Alex Ma, Xiaoying Bai, Chuanqi Tao, and David C. Kung, "Testing A Configurable Component-Based Software – Configuration Test Modeling and Complexity Analysis ", Proceedings of 23th International Conference on Software Engineering and Knowledge Engineering (SEKE2011), Miami, USA, July 7-9, 2011. (EI-Indexed)

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- David Kuo, Daniel Wong,,and Jerry Gao, Lee Chang,"A 2D Barcode Validation System for Mobile Commerce", Proceedings of the 5th International Conference on Grid and Pervasive Computing (GPC2010), LNCS, Springer, Hualian, Taiwan, May, 2010.(EI-Index)

- Jerry Gao, Maulik Shah, Mihir Shah, Devarshi Vyas, Pushkala Pattabhiraman, Kamini Dandapani and Emese Bari, "Systematic Risk Assessment and Cost Estimation for Software Problems", The proceedings of The 21th International Conference on Software Engineering and Knowledge Engineering (SEKE09), San Francisco, July 1-3, 2009. .(EI-Indexed)

- Jerry Gao Vijayendra Kulkarni, Himanshu Ranavat, Lee Chang, "A 2D Barcode-Based Mobile Payment System", Proceedings of the 3rd International Conference on Multimedia and Ubiquitous Engineering (MUE2009), published by IEEE Computer Society Press. This paper is received the best paper award from MUE2009. (EI-Index)

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- Jerry Gao, et al, "Building Testable Software Components – A Systematic Approach and Its Experimental Results", The proceedings of The 20th International Conference on Software Engineering and Knowledge Engineering (SEKE08), San Francisco, July 1-3, 2008. (EI-Indexed)

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- Jerry Zeyu Gao, Lekshmi Prakash, and Rajini Jagatesan, "Understanding 2D-BarCode Technology and Applications in M-Commerce – Design and Implementation of A 2D Barcode Processing Solution", The First IEEE International Workshop on Engineering Mobile-Based Systems and Applications (EMOBS2007), Beijing, July, 2007. Published in the in the proceedings of the 31st Annual International Computer Software and Applications Conference (COMPSAC2007). (EI-Index)

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