



WASEDA University

C u r r i c u l u m V i t a e (as of 23 August 2018)

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Educational Background

Month/Date/Year

(Beginning and completion dates of bachelor's degree)
(Name of university, college or school and department)

4/1/1995—3/15/1999 Waseda University, School of Science and Engineering,
Department of Information and Computer Science

(Beginning and completion dates of master's degree)
(Name of university, graduate school, department and
title of thesis)

4/1/1999—3/15/2001 Waseda University, University of Pennsylvania
Graduate School of Science and Engineering
Department of Information and Computer Science
Thesis title: A Study on Improving Reusability of
Software Components (in Japanese)

(Beginning and completion dates of doctorate)
(Name of university, graduate school, department and
degree and date awarded, and dissertation title)

4/1/2001—3/24/2003 Waseda University
Graduate School of Science and Engineering
Department of Information and Computer Science
Doctor of Information and Computer Science, 3/24/2003
Dissertation title:
A Study on Realization of Component-based
Software Development Technology

Employment Record

Month/Date/Year

4/1/2002-3/31/2004 Research Associate, Waseda University
4/1/2004-3/31/2008 Assistant Professor, National Institute of Informatics
4/1/2008-3/31/2016 Associate Professor, Waseda University
4/1/2008-3/31/2016 Visiting Associate Professor, National Institute of Informatics
12/22/2015-to present Outside Director, SYSTEM INFORMATION CO., LTD.
4/1/2016-to present Professor, Waseda University
4/1/2016-to present Visiting Professor, National Institute of Informatics
2/21/2018-to present Outside Director, eXmotion Co., Ltd.

Current Employer and Position

Professor, Faculty of Science and Engineering, Waseda University
Head, Global Software Engineering Laboratory, Waseda University
Visiting Professor, National Institute of Informatics
Outside Director, SYSTEM INFORMATION CO., LTD.
Outside Director, eXmotion Co., Ltd.

Field of Specialization

Systems and Software Engineering, Software Design, Software Reuse,
Software Quality Assurance, Systems and Software Processes,
Systems and Software Engineering Education, Programming Education,
Requirements Engineering, IoT Systems, Cloud Computing,

Journal Publications

1. Hironori Washizaki, Junko Shirogane, and Yoshiaki Fukazawa, "The mechanism of the Model-View Separation architecture BeaM and its evaluation," Journal of Information Processing Society of Japan, Vol.42, No.10, pp2452-2465, 2001. (in Japanese)



2. Hironori Washizaki, Mai Motomura, and Yoshiaki Fukazawa, "Software Component Trial System and Its Evaluation," *Computer Software*, Vol. 19, No. 1, pp44-48, 2002. (in Japanese)
3. Hironori Washizaki, and Yoshiaki Fukazawa, "Component Retrieval Method Based on Directed Replaceability Similarity and Its Evaluation," *Journal of Information Processing Society of Japan*, Vol. 43, No. 6, pp1638-1653, 2002. (in Japanese)
4. Yuhki Sakai, Hironori Washizaki, and Yoshiaki Fukazawa, "Conditional Test Technique for Fine-grained Component Environment," *Computer Software*, Vol. 19, No. 5, pp26-39, 2002. (in Japanese)
5. Hirokazu Yamamoto, Hironori Washizaki, and Yoshiaki Fukazawa, "Component Metrics based on the Component Reusability and its Evaluation," *Computer Software*, Vol. 19, No. 5, pp13-25, 2002. (in Japanese)
6. Hironori Washizaki, and Yoshiaki Fukazawa, "Dynamic Hierarchical Undo Facility in a Fine-Grained Component Environment," *Journal of Information Processing Society of Japan*, Vol. 44, No. 1, pp143-155, 2003. (in Japanese)
7. Atsuto Kubo, Hironori Washizaki, Atsuhiko Takasu, and Yoshiaki Fukazawa, "Analyzing Relationship between Patterns in Documents based on Document Similarity," *DBSJ Letters*, Vol. 3, No. 3, 2004. (in Japanese)
8. Hironori Washizaki, and Yoshiaki Fukazawa, "Component Extraction based on Object-Oriented Class Relation Analysis," *Computer Software*, Vol. 21, No. 2, pp37-43, 2004. (in Japanese)
9. Hironori Washizaki, and Yoshiaki Fukazawa, "A Technique for Automatic Component Extraction from Object-Oriented Programs by Refactoring," *Science of Computer Programming*, Vol. 56, No. 1-2, pp99-116, 2005.
10. Hironori Washizaki, Mai Motomura, and Yoshiaki Fukazawa, "A Web-based Trial Execution System for Software Components," *WSEAS Transactions on Computers*, Issue 3, Vol. 4, pp319-326, 2005.
11. Hironori Washizaki, and Yoshiaki Fukazawa, "A Component-Extraction-based Program Reuse System," *WSEAS Transactions on Information Science and Applications*, Vol. 4, No. 2, pp. 349-355, 2005.
12. Hironori Washizaki, Daiki Hoshi, and Yoshiaki Fukazawa, "A Flexible Connection Model for Software Components," *IEICE Transactions on Information and Systems*, Vol. E89-D, No. 4, pp. 1421-1431, 2006.
13. Thepparit Banditwattanawong, Soichiro Hidaka, Hironori Washizaki and Katsumi Maruyama, "Optimization of Program Loading by Object Class Clustering", *IEEJ Transactions on Electrical and Electronic Engineering*, Vol. 1, No. 4, pp. 397-407, John Wiley & Sons, 2006.
14. Thepparit Banditwattanawong, Soichiro Hidaka, Hironori Washizaki and Katsumi Maruyama, "Cluster Replication for Distributed Java-Object Caching," *IEICE Transactions on Information and Systems*, Vol. E89-D, No. 11, pp. 2712-2723, 2006.
15. Hironori Washizaki, Satoru Takano, and Yoshiaki Fukazawa, "A System for Visualizing Binary Component-based Software Structure with Component Functional



- Size," WSEAS Transactions on Information Science and Applications, Vol.7, No.3, pp.1222-1230, 2006.
16. Atsuto Kubo, Hironori Washizaki, Atsuhiko Takasu, and Yoshiaki Fukazawa, "Extracting Relations among Embedded Software Design Patterns," Journal of Integrated Design and Process Science, Vol.9, No.3, pp.39-52, 2006.
 17. Hironori Washizaki, Rieko Namiki, Tomoyuki Fukuoka, Yoko Harada, Hiroyuki Watanabe, "A Practical Framework for Quality Evaluation of Program Source Code," Journal of Information Processing Society of Japan, Vol.48, No.8, pp.2637-2650, 2007. (in Japanese)
 18. Hironori Washizaki, Yasuhide Kobayashi, Hiroyuki Watanabe, Eiji Nakajima, Yuji Hagiwara, Kenji Hiranabe, and Kazuya Fukuda, "Quality Evaluation of Embedded Software in Robot Software Design Contest," Progress in Informatics, Vol.4, pp.63-78, 2007.
 19. Thepparit Banditwattanawong, Soichiro Hidaka, Hironori Washizaki and Katsumi Maruyama, "SOOM: Scalable Object-Oriented Middleware for Cooperative and Pervasive Computings", IEICE Transactions on Communications, Vol.E90-B, No.4, pp.728-741, 2007.
 20. Hiroyuki Nakayama, Atsuto Kubo, Hironori Washizaki, Yoshiaki Fukazawa, "A Search System for Software Patterns based on Pattern Rank," Computer Software, Vol.25, No.2, pp.114-134, 2008. (in Japanese)
 21. Nobukazu Yoshioka, Hironori Washizaki, Katsuhisa Maruyama, "A survey on security patterns," Progress in Informatics, No.5, pp.35-47, 2008.
 22. Susumu Kariyuki, Atsuto Kubo, Mikio Suzuki, Hironori Washizaki and Yoshiaki Fukazawa, "A Technique for Supporting Comprehensive Acceptance-Test based on the Inter-Use Case Relations," IPSJ Journal, Vol.50, No.12, pp.1-24, 2009. (in Japanese)
 23. Hironori Washizaki, Kazuhiro Fukaya, Atsuto Kubo, Yoshiaki Fukazawa, "Detecting Design Patterns Using Source Code of Before Applying Design Patterns," Computer Software, Vol.27, No.2, pp136-141, 2010. (in Japanese)
 24. Akira Ohashi, Atsuto Kubo, Tomohiko Mizumachi, Kazuki Eguchi, Shinichi Murakami, Ryuichi Takahashi, Hironori Washizaki, Yoshiaki Fukazawa, Hideyuki Kanuka, Toshihiro Kodaka, Rieko Yamamoto, Youichi Nagai, Nobukazu Yoshioka, Fuyuki Ishikawa, Hisashi Ikari, "AOJS:Aspect-Oriented Programming Framework for JavaScript," Computer Software, Vol.28, No.3, pp114-131, 2011. (in Japanese)
 25. Kazunori Sakamoto, Fuyuki Ishikawa, Hironori Washizaki, and Yoshiaki Fukazawa, "Open Code Coverage Framework: A Framework for Consistent, Flexible and Complete Measurement of Test Coverage Supporting Multiple Programming Languages," IEICE Transactions on Information and Systems, Vol.E94-D, No.12, pp.2418-2430, 2011.
 26. Hironori Washizaki, Kazunori Sakamoto, Naoki Ohsugi, Katsuhiko Gondow, Satoshi Hattori, Kubo Atsuto, Takashi Kobayashi, Mika Ohtsuki, Katsuhisa Maruyama, Akira Sakakibara, "Software Engineering Approaches for Design Patterns," Computer Software, Vol.29, No.1, pp.1_130-1_146, 2012. (in Japanese)



27. Kazunori Sakamoto, Akira Ohashi, Hironori Washizaki and Yoshiaki Fukazawa, “A Framework for Game Software Which Users Play through Artificial Intelligence Programming,” IEICE Transactions on Information and Systems, Vol. J95-D, No. 3, pp. 412-424, 2012. (in Japanese)
28. Yuta Maezawa, Hironori Washizaki and Shinichi Honiden, “Supporting to Find Faults Relating to Interactions in Rich Internet Applications,” IPSJ Journal, Vol. 54, No. 2, pp. 820-834, 2013. (in Japanese)
29. Kazunori Sakamoto, Akira Ohashi, Daichi Ota, Hironori Washizaki and Yoshiaki Fukazawa, “UNICOEN: A Unified Framework for Code Engineering Supporting Multiple Programming Languages,” IPSJ Transactions on Programming, Vol. 54, No. 2, p. 945-960, 2013. (in Japanese)
30. Toshiyuki Nakano, Masashi Kadoya, Shota Suzuki, Hironori Washizaki, Yoshiaki Fukazawa, Eiichi Hanyuda, Masanari Motohashi and Tetsuya Mikami, “Extending Pattern Languages employed Structuring Pattern,” IEICE Transactions on Information and Systems, Vol. J96-D, No. 11, pp. 2705-2709, 2013. (in Japanese)
31. Hiroki Itoh, Hiroyuki Tanabe, Rieko Namiki, Hironori Washizaki, Yoshiaki Fukazawa, “Traceability Measurement and Improvement via Recovering Traceability Links,” Computer Software, Vol. 30, No. 3, pp. 3_123-3_129, 2013. (in Japanese)
32. Shota Inaga, Hironori Washizaki, Yusuke Yoshida, Katsuhiko Kakehi, Yoshiaki Fukazawa, Shoso Yamato, Masashi Okubo, Manabu Tamaki, “Relationships between Team Organization and Education Effects in Practical Lecture on Information Systems Development,” Journal of JSEE, Vol. 61, No. 5, pp. 88-93, 2013. (in Japanese)
33. Tomoyuki Kamiya, Kazunori Sakamoto, Hironori Washizaki and Yoshiaki Fukazawa, “Refactoring Script: A script for composite refactoring and its processor,” IPSJ Transactions on Programming, Vol. 6, No. 3, pp. 33-45, 2013.
34. Daisuke Shimbara, Hideto Ogawa, Hironori Washizaki, “Selection Method for System Configuration for System Testing Using Feature Analysis and SAT Solver,” IPSJ Journal, Vol. 55, No. 2, pp. 922-938, 2014. (in Japanese)
35. Takanori Kobashi, Nobukazu Yoshioka, Haruhiko Kaiya, Hironori Washizaki, Takao Okubo, Yoshiaki Fukazawa, “Validating Security Design Pattern Applications by Testing Design Models,” International Journal of Secure Software Engineering, Vol. 5, Issue 4, pp. 1-30, 2014.
36. Satoru Uchiyama, Atsuto Kubo, Hironori Washizaki, Yoshiaki Fukazawa, “Detecting Design Patterns in Object-Oriented Program Source Code by using Metrics and Machine Learning”, Special Issue on Design Patterns, Journal of Software Engineering and Applications, Vol. 7, No. 12, pp. 983-998, 2014.
37. Shohei Aoi, Kazunori Sakamoto, Hironori Washizaki, Yoshiaki Fukazawa, “DePoT: Testing Framework for Web Application Test,” IPSJ Journal, Vol. 56, No. 3, pp. 835-846, 2015. (in Japanese)
38. Ryosuke Tsuchiya, Hironori Washizaki, Yoshiaki Fukazawa, Tadahisa Kato, Masumi Kawakami and Kentaro Yoshimura, Recovering Traceability Links between



- Requirements and Source Code using the Configuration Management Log,” IEICE Transactions on Information and Systems, Vol.98-D, No.4, pp.852-862, 2015.
39. Kazunori Sakamoto, Kiyoshi Honda, Kazuki Otomori, Shohei Yamazaki, Machiko Hattori, Yuma Matsuura, Koichi Takano, Hironori Washizaki, Yoshiaki Fukazawa, “Manneko Dance: Learning Programming by Imitating Dance,” Computer Software, Vol.32, No.4, pp.74-92, 2015. (in Japanese)
 40. Ryohei Takasawa, Kazunori Sakamoto, Hironori Washizaki, Yoshiaki Fukazawa, “RepositoryProbe: A Tool for Building Repository Mining Dataset,” Computer Software, Vol.32, No.4, pp.103-114, 2015. (in Japanese)
 41. Frederik Nakstad, Hironori Washizaki, Yoshiaki Fukazawa, “Finding and Emulating Keyboard, Mouse, and Touch Interactions and Gestures while Crawling RIAs,” International Journal of Software Engineering and Knowledge Engineering (IJSEKE), Volume 25, Issue 9-10, pp.1777-1781, November & December 2015.
 42. Ryushi Shiohama, Hironori Washizaki, Shin Kuboaki, Kazunori Sakamoto and Yoshiaki Fukazawa, Investigating the relationship between project constraints and appropriate iteration length in agile development through simulations, International Journal of Computer Applications in Technology (IJCAT), Vol.54, No.4, pp.311-322, 2016. (ESCI, DBLP indexed)
 43. Yusuke Sunaga, Hironori Washizaki, Katsuhiko Kakehi, Yoshiaki Fukazawa, Shoso Yamato, and Masashi Okubo, “Relation between Combinations of Personal Characteristic Types and Educational Effectiveness for a Controlled Project-based Learning Course,” IEEE Transactions on Emerging Topics in Computing, Vol.PP, No.99, 2016. (SCIE, DBLP Indexed)
 44. Eduardo B. Fernandez, Nobukazu Yoshioka, Hironori Washizaki, Madiha H. Syed, “Modeling and Security in Cloud Ecosystems,” Future Internet, Special Issue Security in Cloud Computing and Big Data, Vol.8, No.13(2), pp.1-15, 2016. (ESCI, DBLP Indexed)
 45. Masatoshi Yoshizawa, Hironori Washizaki, Yoshiaki Fukazawa, Takao Okubo, Haruhiko Kaiya and Nobukazu Yoshioka, “Implementation Support of Security Design Patterns Using Test Templates,” Information, Special Issue on Evaluating the Security of Complex Systems, Vol.7, No.2(34), pp.1-19, 2016. (ESCI, DBLP Indexed)
 46. Takanobu KOBORI, Hironori WASHIZAKI, Yoshiaki FUKAZAWA, Daisuke HIRABAYASHI, Katsutoshi SHINTANI, Yasuko OKAZAKI, and Yasuhiro KIKUSHIMA, “Exhaustive and efficient identification of rationales using GQM+Strategies with stakeholder relationship analysis,” IEICE Transactions on Information and Systems, Vol.E99-D, No.9, pp.2219-2228, 2016. (SCIE, DBLP indexed)
 47. Kiyoshi Honda, Hironori Washizaki and Yoshiaki Fukazawa, “Generalized Software Reliability Model Considering Uncertainty and Dynamics: Model and Applications,” International Journal of Software Engineering and Knowledge Engineering (IJSEKE), 2017. (SCIE, DBLP Indexed)



48. Rizki Amelia, Hironori Washizaki, Yoshiaki Fukazawa, Keishi Oshima, Ryota Mibe, Ryosuke Tsuchiya, “An Empirical Study on Relationship Between Requirement Traceability Links and Bugs,” *Journal of software (JSW)*, 2017. (DBLP Indexed)
49. Ismail Rizky Harlin, Hironori Washizaki, Yoshiaki Fukazawa, “Impact of Using a Static-type System in Computer Programming,” *Journal of software (JSW)*, Vol. 12, No. 8, pp.598–611, 2017. (DBLP Indexed)
50. Daisuke Saito, Hironori Washizaki, Yoshiaki Fukazawa, “Comparison of Text-Based and Visual-Based Programming Input Methods for First-Time Learners,” *Journal of Information Technology Education: Research (JITE: Research)*, Vol.16, pp.209–226, 2017. (ESCI, Scopus, DBLP Indexed)
51. Ryosuke Ishizue, Hironori Washizaki, Yoshiaki Fukazawa, Sakae Inoue, Yoshiiku Hanai, Masanobu Kanazawa and Katsushi Namba, “Metrics Visualization Techniques based on Historical Origins and Functional Layers for Developments by Multiple Organizations,” *International Journal of Software Engineering and Knowledge Engineering (IJSEKE)*, Vol.28, No.9, pp.1–25, 2018. (SCIE, Scopus, DBLP Indexed)
52. Yijun Yu, Haruhiko Kaiya, Nobukazu Yoshioka, Zhenjiang Hu, Hironori Washizaki, Yingfei Xiong, Amin Hosseinian-Far, “Goal Modelling for Security Problem Matching and Pattern Enforcement,” *International Journal of Secure Software Engineering (IJSSE)*, Vol.8, No.3, pp.42–57, 2017. (DBLP Indexed)
53. Yasuhiro Watanabe, Hironori Washizaki, Kiyoshi Honda, Yuki Noyori, Yoshiaki Fukazawa, Aoi Morizuki, Hiroyuki Shibata, Kentaro Ogawa, Mikako Ishigaki, Sachiyo Shiizaki, Teppei Yamaguchi and Tomoaki Yagi, “ID3P: Iterative Data-Driven Development of Personas to Improve Business Goals, Strategies, and Measurements,” *Journal of Information Science and Engineering, Special Issue on Interdisciplinary Study on Software Engineering and Data Science*, 2018. (SCIE, Scopus, DBLP indexed) (to appear)
54. Kei Ito, Joseph W. Yoder, Hironori Washizaki, and Yoshiaki Fukazawa, “A Pattern Language for Knowledge Handover when People Transition,” *LNCS Transactions on Pattern Languages of Programming*, Vol. 4, pp.1–32, 2018. (DBLP, Scopus indexed) (to appear)
55. Takuya Watanabe, Mitsuaki Akiyama, Tetsuya Sakai, Hironori Washizaki, and Tatsuya Mori, “Understanding the Inconsistency between Behaviors and Descriptions of Mobile Apps,” *IEICE Transactions on Information and Systems, Special Section on Information and Communication System Security*, 2018. (SCIE, DBLP, Scopus indexed) (to appear)
56. Hironori Washizaki, Yann-Gael Gueheneuc, Foutse Khomh, “ProMeTA: A Taxonomy for Program Metamodels in Program Reverse Engineering,” *Empirical Software Engineering (EMSE) journal*, pp.1–36, 2018. (SCIE, Scopus, DBLP indexed) (invited by ICSME 2016 committee)
57. Taketo Tsunoda, Hironori Washizaki, Yoshiaki Fukazawa, Sakae Inoue, Yoshiiku Hanai, Masanobu Kanazawa, “Developer Experience Considering Work Difficulty in Software



- Development,” *International Journal of Networked and Distributed Computing*, Vol. 6, No. 2, pp. 53–62, 2018. (ESCI, Scopus indexed) (to appear)
58. Hironori Washizaki, Naohiko Tsuda, Kiyoshi Honda, Hidenori Nakai, Yoshiaki Fukazawa, Motoei Azuma, Toshihiro Komiyama, Tadashi Nakano, Hirotosugu Suzuki, “Software Quality Evaluation Framework based on International Standards and Benchmark obtained by applying the Framework” , *SEC journal*, Vol. 14, No. 1, pp. 26–41, 2018. (in Japanese)
59. Katsue Kojima, Sumie Morita, Takeo Hirose, Masaaki Wakamoto, Shinji Kikuchi, Akiyoshi Hando, Hironori Washizaki, “Evaluation of Impact of Software Quality Assurance Technique on Quality Characteristics” , *SEC journal*, Vol. 14, No. 1, pp. 50–57, 2018. (in Japanese)
60. Ryosuke Ishizue, Kazunori Sakamoto, Hironori Washizaki and Yoshiaki Fukazawa, “Student Placement and Skill Ranking Predictors for Programming Classes Using Class Attitude, Psychological Scales, and Code Metrics,” *Research and Practice in Technology Enhanced Learning*, Springer, pp. 1–20, 2018. (to appear) (invited by ICCE 2017 committee)
61. Mohab Aly, Foutse Khomh, Yann-Gaël Guéhéneuc, Hironori Washizaki, Soumaya Yacout, “Is Fragmentation a Threat to the Success of Internet of Things?”, *IEEE Internet of Things Journal* (to appear)

International Conferences and Workshops

62. Hironori Washizaki, Junko Shirogane, and Yoshiaki Fukazawa, “A Light-Weight Broker for GUI Applications,” *Proc. of the International Workshop on Domain Oriented Systems Development (DOSD1999) in Asia-Pacific Software Engineering Conference (APSEC’99)*, December 1999.
63. Hironori Washizaki, Junko Shirogane, and Yoshiaki Fukazawa, “The Model-View Separation Architecture Beam and its Evaluation,” *Proc. of the 4th Joint Conference on Knowledge-Based Software Engineering (JCKBSE2000)*, *Frontiers in Artificial Intelligence and Applications*, IOS Press, pp. 115–122, September 2000.
64. Hironori Washizaki, and Yoshiaki Fukazawa, “Retrieving Software Components Using Directed Replaceability Distance,” *Proc. of the 3rd International Conference on Generative and Component-Based Software Engineering (GCSE2001)*, Springer-Verlag, *Lecture Notes in Computer Science*, Vol. 2186, pp. 153–162, September 2001.
65. Hironori Washizaki, and Yoshiaki Fukazawa, “Dynamic Hierarchical Undo Facility in a Fine-Grained Component Environment,” *40th International Conference on Technology of Object-Oriented Languages and Systems (TOOLS Pacific 2002)*, pp. 191–199, February 2002.
66. Hironori Washizaki, and Yoshiaki Fukazawa, “A Retrieval Technique for Software Components Using Directed Replaceability Similarity,” *Proc. of the 8th International Conference on Object-Oriented Information Systems (OOIS’02)*,



Springer-Verlag, Lecture Notes in Computer Science, Vol.2425, pp298-310, September 2002.

67. Hironori Washizaki, Hirokazu Yamamoto, and Yoshiaki Fukazawa, "Software Component Metrics and It's Experimental Evaluation," Proc. of the International Symposium on Empirical Software Engineering (ISESE 2002), Vol.II, IEEE CS, pp19-20, October 2002.
68. Hironori Washizaki, Mai Motomura, and Yoshiaki Fukazawa, "Web-based Software Component Trial System and its Evaluation," Proc. of the 6th IASTED International Conference on Software Engineering and Applications (SEA'02), pp305-310, November 2002.
69. Hironori Washizaki, and Yoshiaki Fukazawa, "Automated Extract Component Refactoring," Proc. of the 4th International Conference on eXtreme Programming and Agile Processes in Software Engineering (XP2003), Springer-Verlag, Lecture Notes in Computer Science, pp328-330, May 2003.
70. Hironori Washizaki, Hirokazu Yamamoto, and Yoshiaki Fukazawa, "A Metrics Suite for Measuring Reusability for Software Components," Proc. of the 9th IEEE International Symposium on Software Metrics (Metrics 2003), IEEE CS, pp211-223, September 2003.
71. Hironori Washizaki, and Yoshiaki Fukazawa, "Extracting Components from Object-Oriented Programs for Reuse in Memory-Constrained Environments," Proc. of First Workshop on Reuse in Constrained Environments (RICE'03) at the 18th Annual ACM SIGPLAN Conference on Object-Oriented Programming, Systems, Languages, and Applications (OOPSLA 2003), pp1-3, October 2003.
72. Hironori Washizaki, Yuhki Sakai, and Yoshiaki Fukazawa, "A Conditional Test Suite for Fine-Grained Software Components," Proc. of the 2nd ACIS International Conference on Software Engineering Research, Management and Applications (SERA2004), May 2004.
73. Hironori Washizaki, Yuhki Sakai, and Yoshiaki Fukazawa, "Conditional Test for JavaBeans Components," Proc. of the 5th International Conference on Extreme Programming and Agile Processes in Software Engineering (XP2004), Springer-Verlag, Lecture Notes in Computer Science, Vol.3092, pp282-283, June 2004.
74. Hironori Washizaki, and Yoshiaki Fukazawa, "Component-Extraction-based Search System for Object-Oriented Programs," Proc. of the 8th International Conference on Software Reuse (ICSR 8th), Springer Verlag, Lecture Notes in Computer Science, Vol. 3107, pp254-263, July 2004.
75. Hironori Washizaki, and Yoshiaki Fukazawa, "Search and Trial Execution System for OO Programs by Component Extraction," Proc. of the 6th Joint Conference on Knowledge-Based Software Engineering (JCKBSE2004), Frontiers in Artificial Intelligence and Applications, IOS Press, August 2004.



76. Hironori Washizaki, and Yoshiaki Fukazawa, "A Search System for Object-Oriented Programs by using Extracted Components," Proc. of Workshop on New Approaches to Software Construction (WNASC 2004), pp141-152, September 2004.
77. Hironori Washizaki, and Yoshiaki Fukazawa, "A Search System for Java Programs by using Extracted JavaBeans Components," Companion to the 19th Annual ACM SIGPLAN Conference on Object-Oriented Programming, Systems, Languages, and Applications (OOPSLA 2004), pp200-201, October 2004.
78. Hironori Washizaki, and Yoshiaki Fukazawa, "A Technique of Transforming parts of Object-Oriented Class Library into Structurally Reusable Components, and Its Application," Proc. of the Software Transformation Systems Workshop, pp39-40, 2004.
79. Hironori Washizaki, and Yoshiaki Fukazawa, "A Model-View Separation Architecture for GUI Application Components", Proc. of the International Conference on Information Technology: Coding and Computing 2005 (ITCC 2005), pp359-364, April 2005.
80. Atsuto Kubo, Hironori Washizaki, Atsuhiko Takasu, and Yoshiaki Fukazawa, "Analyzing Relations among Software Patterns based on Document Similarity", Proc. of the International Conference on Information Technology: Coding and Computing 2005 (ITCC 2005), pp298-303, April 2005.
81. Hironori Washizaki, and Yoshiaki Fukazawa, "Safe Component Extension for Adding Domain-Independent Services", Proc. of the IADIS Software Engineering and Applications 2005 Conference (SEA2005), pp399-405, April 2005.
82. Hironori Washizaki, Atsuto Kubo, Atsuhiko Takasu, and Yoshiaki Fukazawa, "Relation Analysis among Patterns on Software Process Improvement", Proc. of the 6th International Conference on Product Focused Software Process Improvement (PROFES 2005), LNCS Vol. 3547, pp299-313, Jun 2005.
83. Atsuto Kubo, Hironori Washizaki, Atsuhiko Takasu, and Yoshiaki Fukazawa, "Extracting Relations among Embedded Software Design Patterns", Proc. of the 8th International Conference on Integrated Design and Process Technology (IDPT2005), pp73-80, June 2005.
84. Thepparit Banditwattanawong, Katsumi Maruyama, Soichiro Hidaka, and Hironori Washizaki, "Contemporaneity-Conscious Clustering Algorithm for Distributed Object Caching", Proc. of the 2005 International Conference on Parallel and Distributed Processing Techniques and Applications (PDPTA'05), June 2005.
85. Thepparit Banditwattanawong, Katsumi Maruyama, Soichiro Hidaka, and Hironori Washizaki, "Proxy-and-Hook: A Java-based Distributed Object Caching Framework", Proc. of the 3rd International IEEE Conference on Industrial Informatics (INDIN 2005), pp819-824, August 10-12, 2005.
86. Hironori Washizaki, Takao Adachi and Yoshiaki Fukazawa, "Generating Wizards for Software Components by Dynamic Analysis" Proceedings of the Workshop on New Approaches to Software Construction (WNASC2005), September 2005.



87. Hironori Washizaki, Shinichi Honiden, Rieko Yamamoto, Takao Adachi, and Yoshiaki Fukazawa, "Automatic Generation of Software Component Wizards based on the Wizard Pattern", Proceedings of the International Conference on Systems, Computing Sciences and Software Engineering (SCS2'05), pp11-18, December 2005.
88. Hironori Washizaki, Yasuhide Kobayashi, Hiroyuki Watanabe, Eiji Nakajima, Yuji Hagiwara, Kenji Hiranabe, and Kazuya Fukuda, "Experiments on Quality Evaluation of Embedded Software in Japan Robot Software Design Contest," Proceedings of the 28th IEEE/ACM International Conference on Software Engineering (ICSE 2006), pp. 551-560, 2006.
89. Hironori Washizaki, "Building Software Process Line Architectures from Bottom Up", Proc. of the 7th International Conference on Product Focused Software Process Improvement (PROFES 2006), Springer LNCS, Vol. 4034, pp. 415-421, June 2006.
90. Hironori Washizaki, Tomoki Nakagawa, Yuhki Saito and Yoshiaki Fukazawa, "Measuring Complexity of Remote Component-Based Software System Toward Maintainability Estimation", International e-Conference on Computer Science 2006 (IeCCS 2006), July 2006.
91. Hironori Washizaki, "Deriving Project-Specific Processes from Process Line Architecture with Commonality and Variability", Proc. 4th International IEEE Conference on Industrial Informatics (INDIN'06), August 2006.
92. Thepparit Banditwattanawong, Soichiro Hidaka, Hironori Washizaki and Katsumi Maruyama, "Fine-grained Replication for Private-workspace and Memory-constrained Computings", Proc. of IFIP Int. Conf. on Network and Parallel Computing (NPC 2006), pp. 84-92, Oct. 2006.
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Book Chapters and Magazine Articles

279. Hironori Washizaki, and Yoshiaki Fukazawa, “Realization of Fully Independent Component Architecture,” Chapter 4 in “Domain Oriented Software Development: Practices and Perspectives,” Taylor and Francis, ISBN 0415304504, October 2002.
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Awards

- Takahashi Encouraging Award from JSSST, 2004.
- SES2006 Best Paper Award from IPSJ/SIGSE, 2006.
- Yamashita Research Award from IPSJ, 2008.
- Funai Information Science Encouraging Award from Funai Foundation, 2008.
- Nikkei Quality Management Bibliography Award from JUSE (as one of co-authors of "Software Quality Body Of Knowledge: SQuBOK"), 2008.
- Zengo Award from ASTER, 2009.
- SES2009 Student Encouraging Award from IPSJ/SIGSE, 2009.
- FIT2009 Best Paper Award, 2009.
- IWESEP2014 Best Poster Award, 2014.
- 17th Workshop on Requirements Engineering (WER 2014) Best Paper Award Nominee (for "Abstract security patterns for requirements and analysis of secure systems")
- Computer Research Contribution Award, Asia Pacific Society for Computing and Information Technology (APSCIT), 2016.
- Best Paper Award Nominee of 32nd IEEE International Conference on Software Maintenance and Evolution (ICSME 2016) (for "A Taxonomy for Program Metamodels in Program Reverse Engineering") 2016.
- JSEE Engineering Education Award 2017.
- SES2017 Interactive Special Award
- Waseda University Presidential Teaching Award 2017
- Waseda University Research Award 2018
- International Journal of Software Engineering and Knowledge Engineering, Most Read Articles 2017 (for "Generalized Software Reliability Model Considering Uncertainty and Dynamics: Model and Applications, Kiyoshi Honda, Hironori Washizaki, Yoshiaki Fukazawa")
- International Journal of Software Engineering and Knowledge Engineering, Vol. 28, No. 01, 2018 Most Read Articles (for "Metrics Visualization Techniques Based on Historical Origins and Functional Layers for Developments by Multiple Organizations")



Academic and Professional Contributions

- Convenor of ISO/IEC/JTC1/SC7/WG20
- Membership at Large for the Professional and Educational Activities Board, IEEE Computer Society
- Chair/Vice-Chair of IEEE CS Japan Chapter
- Chair of SEMAT Japan Chapter
- Director of IPSJ SamurAI Coding
- Director of ACM-ICPC 2014 Asia Regional Tokyo Contest
- Editor of Int. J. Soft. Eng. Know. Eng. (SCIE Indexed)
- Editor of IEICE Trans. Info. Sys. Editor (SCIE Indexed)
- Editor of Heliyon (Elsevier),
- Editor of IPSJ Journal
- Editor of JSSST Computer Software
- Editor of ISEIA Journal
- Steering Committee Member of DEPEND 2016-2017
- Steering Committee Member of FASSI 2016-2017
- General chair of AsianPLOP' 11, 14-15
- Organizer of MAPLE/SCALE' 13
- Organizer of PPAP'16
- Program chair of SPAQu' 07-09
- Program chair of AsisanPLOP' 10
- Program co-chair of IEEE ICST 2017
- Program co-chair of IEEE CSEE&T 2017
- Program co-chair of APSEC 2018
- Workshop co-chair of ASE' 06
- Publicity chair of APSEC' 07
- Publicity chair of ASE' 12
- Publicity chair of CSEE&T' 15
- Publicity chair of BICT 2015
- Asia liaison of SEKE' 10-17
- Local chair of SPLC' 13
- Local chair of COMPSAC '18
- Member of IEEE, ACM, IPSJ, IEICE, JSSST, IEEJ, DBSJ
- Member of program committee (current and/or past): ASE, ICST, SEKE, ICMT, XP, SAC PSC, PROFES, APSEC, JCKBSE, PLoP, AsianPLOP, ICISOFT, DEPEND, ASEA, SecTech, ISA, WorldCIST, Mensura, MODELSWARD, BIST AISE, ICIST ISSEA, PROMISE, QuASoQ, ICISA, PlatCon, SPLC Industry Track, ICSE Poster Track, InCULT, IEEE Mobile Cloud, ICECCS

Lecture Courses



- Programming, 2nd year undergraduate, Dept. CS, Waseda University
- Software Engineering, 3rd year undergraduate, Dept. CS, Waseda University
- Computing and Expression, 1st year undergraduate, Waseda University
- Software Quality Assurance, graduate, Dept. CS, Waseda University
- Component-based software development, graduate, Dept. Creative Informatics, University of Tokyo
- Component-based software development, graduate/practitioner, National Institute of Informatics
- Software Patterns, graduate/practitioner, Japan Advanced Institute of Science and Technology, and National Institute of Informatics
- Aspect-Oriented Software Development, graduate/practitioner, Japan Advanced Institute of Science and Technology, and National Institute of Informatics