

Curriculum Vitae (as of 22nd September 2021)



NAME: Hironori Washizaki

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Nationality: Japan

Birth year: 1976

Gender: Male

EDUCATIONAL BACKGROUND:

4/1/1995 - 3/15/1999, Waseda University, School of Science and Engineering

4/1/1999 - 3/15/2001, Waseda University, Master of Information and Computer Science

4/1/2001 - 3/24/2003, Waseda University, Doctor of Information and Computer Science

EMPLOYMENT RECORD:

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

Director, Global Software Engineering Laboratory, Waseda University

Visiting Professor, National Institute of Informatics

Outside Director, SYSTEM INFORMATION CO.,LTD.

Outside Director, eXmotion Co., Ltd.

BIOGRAPHY:

Hironori Washizaki is a Professor and the Associate Dean of the Research Promotion Division at Waseda University in Tokyo, and a Visiting Professor at the National Institute of Informatics. He also works in industry as Outside Directors of SYSTEM

INFORMATION and eXmotion. Since 2017, he has been the lead on a large-scale grant at MEXT called enPiT-Pro SmartSE, which encompasses IoT, AI, software engineering and business.

IEEE activities: Hironori currently serves as IEEE Computer Society Vice President for Professional and Educational Activities 2021, and IEEE CS Board of Governors (BoG) member 2021-2023. He serves Chair of the IEEE CS Professional and Educational Activities Board (PEAB) Engineering Discipline Committee since 2019. He is spearheading the Guide to the Software Engineering Body of Knowledge (SWEBOK) evolution project. He has been on PEAB since 2017. He also serves as Associate Editor of IEEE Transactions on Emerging Topics in Computing (TETC), Steering Committee Member of the IEEE Conference on Software Engineering Education and Training (CSEE&T), and Advisory Committee Member of the IEEE CS flagship conference COMPSAC. He is a Professional Member of IEEE-Eta Kappa Nu. He has served as the program chair of multiple IEEE conferences, including ICST, CSEE&T, and SIoT/SISA of COMPSAC. Additionally, he has served as the program chair of ICPC Programming Education Track and SCAM Engineering Track, workshop chair and publicity chair of ASE, local chair of COMPSAC, and Chair of IEEE CS Japan Chapter.

Research and Contribution: Hironori's research interests include systems and software engineering. He received his Ph.D. in information and computer science from Waseda University in 2003. He has published more than 120 research papers in refereed international journals and conferences, including TETC, IoT-J, EMSE, SCICO, ICSE and ASE. He has led many academia-industry joint research and large-funded projects in software design, traceability, and quality assurance. Since 2015, he has been the Convener of ISO/IEC/JTC1 SC7/WG20 to standardize bodies of knowledge and professional certifications. Since 2019, he has been Steering Committee Member of APSEC.

IEEE CS/IEEE ACTIVITIES:

IEEE/IEEE-CS CONFERENCES:

- Workshop Co-Chair, 21st IEEE/ACM International Conference on Automated Software Engineering (ASE), 2006
- Publicity Co-Chair, 27th IEEE/ACM International Conference on Automated Software Engineering (ASE), 2012
- Publicity Co-Chair, IEEE 28th Conference on Software Engineering Education and Training (CSEET), 2015
- Program Co-Chair, 10th IEEE International Conference on Software Testing, Verification and Validation (ICST), 2017
- Program Co-Chair, 30th IEEE Conference on Software Engineering Education and Training (CSEE&T), 2017
- Local Chair, 42nd IEEE International Conference on Computers, Software & Applications (COMPSAC), 2018
- Program Co-Chair of Symposium on Smart IoT Systems & Applications (SISA), 43rd IEEE International Conference on Computers, Software & Applications (COMPSAC), 2019

- Program Co-Chair of Symposium on Smart IoT Systems & Applications (SIoT), 44th IEEE International Conference on Computers, Software & Applications (COMPSAC), 2020
- Program Co-Chair of Programming Education Track, 28th IEEE/ACM International Conference on Program Comprehension (ICPC), 2020
- Program Co-Chair of Engineering Track, 20th IEEE International Working Conference on Source Code Analysis and Manipulation (SCAM), 2020
- Steering Committee Member, IEEE Conference on Software Engineering Education and Training (CSEE&T), 2018-now
- Advisory Committee Member, IEEE International Conference on Computers, Software & Applications (COMPSAC), 2019-now
- Program Committee Member, ICST 2014, ICST 2015, ICST 2016, ICSE 2017 Poster Track, TALE 2018, ICSE 2018 Poster Track, Mobile Cloud 2019, ScalCom 2019, TALE 2019, SNPD 2020, Mobile Cloud 2020, CSEE&T 2020, ICSE 2020 Poster Track, ICSE 2020 SEIP Track, ICSE 2020 Artifact Evaluation Track, ScalCom 2020, ICSE JSEET 2021, ICPC 2021 Education Track, ScalCom 2021, ICSSP/ICGSE 2021, MobileCloud 2021, SERP4IoT 2021, APCCAS 2021, IISA 2021, ASE 2021 Artifact Evaluation

IEEE/IEEE-CS PUBLICATIONS:

- Associate Editor of IEEE Transactions on Emerging Topics in Computing (TETC), 2019-now

IEEE/IEEE-CS STANDARDS:

- Leader and Editor, The Guide to the Software Engineering Body of Knowledge (SWEBOK Guide) (ISO/IEC TR 19759:2015) evolution, 2019-now

IEEE/IEEE-CS COMMITTEES or BOARDS:

- Member, IEEE CS Professional and Educational Activities Board (PEAB), 2017-now
- Chair, IEEE CS PEAB Ad Hoc Committee for Program Boards Integration, 2018
- Chair, IEEE CS PEAB Engineering Discipline Committee, 2019-now
- Vice President for Professional and Educational Activities, IEEE Computer Society, 2021
- Board of Governors (BoG) member, IEEE Computer Society, 2021-2023

IEEE/IEEE-CS CHAPTERS, SECTION or REGIONS:

- Treasurer, IEEE CS Japan Chapter, 2011-2012
- Secretary, IEEE CS Japan Chapter, 2013-2014
- Chair, IEEE CS Japan Chapter, 2015-2016, 2019
- Vice-Chair, IEEE CS Japan Chapter, 2017-2018, 2020

QUALIFICATIONS:

In addition to outstanding research and education achievements, I have an excellent publication record in software engineering and related disciplines, including AI and IoT. Strong research is important to envision future directions of IEEE CS in the digital, software-defined era.

I have been serving as Outside Director of multiple companies since 2018. Additionally, I have collaborated with more than 20 industrial partners on academia-industry joint research projects. Since 2017, I have led a large-funded professional training project with 20+ industrial partners. These strong experiences in industrial collaborations make me well positioned to strengthen academia-industry collaborations in IEEE CS.

My strong contribution record in IEEE CS, ISO, and other societies demonstrates my passion for advancing professional activities in academia and industrial communities. These activities are vital for developing a human-centered engineerable and sustainable well-being world, where IEEE CS shall play key roles.

MAJOR ACCOMPLISHMENTS IN IEEE/IEEE-CS:

Since 2017 I have been on the IEEE CS PEAB and engaged in formulating policies and practices with respect to the society's role in the development and support of professional disciplines. I expanded my role in 2018 and am currently leading efforts for the SWEBOK guide evolution project as Chair of the PEAB Engineering Discipline Committee. From 2021, I serve as IEEE CS Vice President for PEAB to push forward the activity and other related activities.

In 2019, I became an Associate Editor of IEEE Transactions on Emerging Topics in Computing (TETC). In this role, I strive to promote scholarship in the specialized field associated with the journal while also promoting the journal itself. The journal publishes papers on emerging aspects of computer science, technology, and applications. The journal received an Impact Factor of 4.989 in 2019, indicating its high reputation.

I actively support to IEEE International Conference on Computers, Software & Applications (COMPSAC). I served as the Local Chair (2018), PC Co-Chair of Symposium on Smart IoT Systems & Applications (2019), and PC Co-Chair of Symposium on Smart IoT Systems & Applications (2020). Since 2019, I have been an Advisory Committee Member of COMPSAC.

I believe it is critical to enrich and expand research and practices in software engineering education and training. I have served in various roles in the IEEE Conference on Software Engineering Education and Training (CSEE&T). I served as Publicity Chair in 2015 and PC Co-Chair in 2017. Currently, I am on the Steering Committee.

Over the past decade, I have contributed to software engineering and the general computing professional community in Japan and the Asia-Pacific region. I have served as Chair, Vice-Chair, Secretary, and Treasurer of the IEEE CS Japan Chapter. I have served as Publicity Chair (2007), PC Co-Chair (2018), and am currently a Steering Committee Member for the Asia-Pacific Software Engineering Conference (APSEC), which publishes their proceedings by IEEE CPS. I am also active with the Information Processing Society of Japan (IPSJ), a sister society of IEEE, where I have served as the Editor of its journal and Secretary of Special Interest Group of Software Engineering.

LIST OF POSITIONS COVERED AT GRANT/FUNDING INSTITUTIONS IN THE PAST 10 CALENDAR YEARS:

- PI of MEXT enPiT-Pro Smart Systems and Services innovative professional Education program, from: 2017, to: 2022
- PI of MEXT Grant-in-Aid for Scientific Research (B), from: 2016, to: 2021
- PI of Information-technology Promotion Agency, Initiative on Advanced Software Engineering, from: 2015, to: 2017
- PI of International Information Science Foundation, SSR Forum, from: 2015, to: 2017
- PI of MEXT Grant-in-aids for Scientific Research (C), from: 2013, to: 2016
- PI of MEXT Grant-in-Aid for Young Scientists (B), from: 2010, to: 2013

LIST OF EDITORIAL POSITIONS COVERED IN THE PAST 10 YEARS

- Associate Editor of IEEE Transactions on Emerging Topics in Computing (TETC), from 2019 until now
- Editorial Board Member of Education Sciences, from 2020 until now
- Associate Editor of International Journal of Software Engineering and Knowledge Engineering (IJSEKE), from 2016 until now
- Associate Editor of IEICE Transactions on Information and Systems, from 2016 until 2018
- Associate Editor of Heliyon, from 2017 until 2019
- Guest Editor of Journal of Software and Systems (JSS), Special Issue on Software Engineering Education and Training, from 2017 to 2018
- Guest Editor of Software Testing, Verification and Reliability (STVR), Special Issue on ICST 2017, from 2017 until 2019

LIST OF KEYNOTES AND INVITED TALKS:

1. Hironori Washizaki, Machine Learning Software Engineering Patterns: Classification and Practitioners' Insights, The Sixteenth International Conference on Software Engineering Advances (ICSEA 2021), Keynote, Oct 3-7, 2021 – Barcelona, Spain and Online
2. Hironori Washizaki, Software Engineering Patterns for Machine Learning Applications, Keynote, 2021 IEEE International Conference on Electronic Technology, Communication and Information (ICETCI 2021), August 27-29, 2021, Online and Changchun, China
3. Hironori Washizaki, Blended Learning of IoT and AI for Business in Recurrent Education Program "Smart SE", Keynote, The Thirteenth International Conference on Mobile, Hybrid, and On-line Learning (eLmL 2021), July 18, 2021 to July 22, 2021 – Nice, France
4. Hironori Washizaki, "Smart SE: Recurrent Education Program of IoT and AI for Business," 2021 IEEE International Conference on Educational Technology (ICET), Keynote, Online, June 20, 2021.
5. Hironori Washizaki, Panel on Vision of IEEE CS in 2021, 75th year of CS & Involving YPs in CS Boards by IEEE CS Vice Presidents, IEEE CS YP Meetup in February 2021, Feb 7 2021

6. Hironori Washizaki, "Patterns for New Software Engineering: Machine Learning and IoT Engineering Patterns", Keynote, AsianPLoP 2020: 9th Asian Conference on Pattern Languages of Programs, Sep 3rd, 2020.
7. Hironori Washizaki, "TraceANY: Software Maintenance and Evolution Support by Extracting Links and Models," Keynote, 2019 International Conference for Leading and Young Computer Scientists (IC-LYCS 2019), Okinawa, Feb 28 – Mar 03, 2019
8. Hironori Washizaki, "Analyzing and refining project failure cases from wider viewpoints by using SEMAT Essence," Invited Talk, Essence Conference in Seoul, 16 May 2017
9. Hironori Washizaki, "Security Patterns: Research Direction, Metamodel, Application and Verification", Keynote, The 2017 International Workshop on Big Data & Information Security (IWBIS), Jakarta, Indonesia , Sep 23-24, 2017.
10. Hironori Washizaki, "CSEE&T 2017 SWEBOK Evolution Panel – View from ISO/IEC/JTC1/SC7/WG20 and SEMAT", 30th IEEE Conference on Software Engineering Education and Training (CSEE&T), Savannah, Georgia, November 7-9, 2017
11. Hironori Washizaki, "Pitfalls and Countermeasures in Software Quality Measurements and Evaluations," Keynote, 5th International Workshop on Quantitative Approaches to Software Quality (QuASoQ2017), in conjunction with the 24th Asia-Pacific Software Engineering Conference (APSEC 2017), Nanjing, Jiangsu, China, 4th December 2017
12. Hironori Washizaki, "TESEM: A Tool for Verifying Security Design Pattern Applications," Invited Talk, 3rd International Workshop on Software Test Architecture (InSTA 2016, ICST 2016 Workshop), 10 April 2016, Chicago, U.S.A.
13. Hironori Washizaki, Juan Garbajosa, "Proposals for the SWEBOK evolution process from the viewpoint of ISO/IEC/JTC1/SC7 standardization activities," IEEE CS SWEBoK Evolution Virtual Town Hall Meeting, Aug 25, 2016
14. Hironori Washizaki, Recovery of Traceability Links and Behavior Models for Software Maintenance, Keynote, 2016 International Conference for Top and Emerging Computer Scientists (IC-TECS 2016), Taipei, Dec 24, 2016.
15. Hironori Washizaki, "Software Maintenance Support by Extracting Links and Models", UQAM Latece seminar, Nov 11, 2015.
16. Hironori Washizaki, "Recovery of Traceability Links and Behavior Models for Software Maintenance", ETS seminar, Nov 26, 2015.
17. Hironori Washizaki, "Waseda Super Global University Program and Collaboration in Software Patterns", Invited talk at AsianPLoP 2016: 5th Asian Conference on Pattern Languages of Programs, February 24, 2016, Taipei, Taiwan
18. Hironori Washizaki, "Introduction to Patterns", Keynote at miniPLoP@Taipei, Taipei, 29th May, 2014.
19. Hironori Washizaki, "PLoP, AsianPLoP, and Patterns Community in Japan", Invited talk at miniPLoP@Taipei, Taipei, 29th May, 2014.
20. Hironori Washizaki, "Future of SEKE, Software Engineering and Knowledge-Engineering", Invited short talk at panel session, SEKE 2014.

LIST OF AWARDS:

21. The Prize for Science and Technology (Understanding Promotion Category), Minister of Education, Culture, Sports, Science and Technology, 2021

22. IPSJ-SIGSE Contribution Award 2021
23. Best Paper Award Nominee of 20th IEEE/ACIS International Conference on Software Engineering, Artificial Intelligence, Networking and Parallel/Distributed Computing (SNPD 2019) (for "Generating Linear Temporal Logics based on Property Specification Templates")
24. IMS Japan Award Special Award
25. Japan e-Learning Award 2019 IT Training and Education
26. IPSJ-SIGSE Excellent Research Award
27. Best Paper Award Nominee of 20th IEEE/ACIS International Conference on Software Engineering, Artificial Intelligence, Networking and Parallel/Distributed Computing (SNPD 2019) (for "Generating Linear Temporal Logics based on Property Specification Templates")
28. 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")
29. Waseda University Research Award 2018
30. 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")
31. JSEE Engineering Education Award 2017.
32. SES2017 Interactive Special Award
33. Waseda University Presidential Teaching Award 2017
34. Computer Research Contribution Award, Asia Pacific Society for Computing and Information Technology (APSCIT), 2016.
35. 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.
36. IWESep2014 Best Poster Award, 2014.
37. 17th Workshop on Requirements Engineering (WER 2014) Best Paper Award Nominee (for "Abstract security patterns for requirements and analysis of secure systems")
38. Zengo Award from ASTER, 2009.
39. SES2009 Student Encouraging Award from IPSJ/SIGSE, 2009.
40. FIT2009 Best Paper Award, 2009.
41. Yamashita Research Award from IPSJ, 2008.
42. Funai Information Science Encouraging Award from Funai Foundation, 2008.
43. Nikkei Quality Management Bibliography Award from JUSE (as one of co-authors of "Software Quality Body Of Knowledge: SQuBOK"), 2008.
44. SES2006 Best Paper Award from IPSJ/SIGSE, 2006.
45. Takahashi Encouraging Award from JSSST, 2004.

LIST OF JOURNAL PUBLICATIONS:

46. Hiroshi Ukai, Xiao Qu, Hironori Washizaki, and Yoshiaki Fukazawa, "Accelerating covering array generation by combinatorial join for industry scale software testing," PeerJ Computer Science, pp. 1-31, 2021. (SCIE, IF=1.39)

47. Kenta Kanakogi, Hironori Washizaki, Yoshiaki Fukazawa, Shinpei Ogata, Takao Okubo, Takehisa Kato, Hideyuki Kanuka, Atsuo Hazeyama, Nobukazu Yoshioka, "Tracing CVE Vulnerability Information to CAPEC Attack Patterns Using Natural Language Processing Techniques," *Information*, MDPI, pp. 1-15, 2021. (ESCI, Scopus indexed)
48. Eduardo B. Fernandez, Hironori Washizaki, Nobukazu Yoshioka, Takao Okubo, "The design of secure IoT applications using patterns: State of the art and directions for research," *Internet of Things; Engineering Cyber Physical Human Systems*, Vol. 15-16, Elsevier, pp. 1-25, 2021.
49. Natsuki Mimura, Shuji Okuda, Hironori Washizaki, Katsutoshi Shintani, Yoshiaki Fukazawa, "Systematical Alignment of Business Requirements and System Functions by Linking GQM+Strategies and SysML," *International Journal of Service and Knowledge Management (IJSKM)*, Vol. 5, No. 1, pp. 15-35, 2021. (invited from EAIS2019)
50. Hironori Washizaki, Tian Xia, Natsumi Kamata, Yoshiaki Fukazawa, Hideyuki Kanuka, Takehisa Kato, Masayuki Yoshino, Takao Okubo, Shinpei Ogata, Haruhiko Kaiya, Atsuo Hazeyama, Takafumi Tanaka, Nobukazu Yoshioka, G Priyalakshmi, "Systematic Literature Review of Security Pattern Research," *Information*, Vol. 12, No. 1:36, MDPI, pp.1-27, 2021. (ESCI, Scopus indexed)
51. Yasuhiro Watanabe, Hironori Washizaki, Kiyoshi Honda, Yoshiaki Fukazawa, Masahiro Taga, Akira Matsuzaki, Takayoshi Suzuki, "Data-Driven Persona Retrospective based on Persona Significance Index in B-to-B Software Development," *International Journal of Software Engineering and Knowledge Engineering (IJSEKE)*, Vol. 31, No. 1, pp. 117-146, 2021. (SCIE indexed, IF=0.886)
52. Yuki Noyori, Hironori Washizaki, Yoshiaki Fukazawa, Hideyuki Kanuka, Keishi Ooshima, Shuhei Nojiri, Ryosuke Tsuchiya, "What are the features of good discussions for shortening bug fixing time?," *IEICE Transactions on Information and Systems*, Vol. E104-D, No. 1, pp.106-116, 2021. (SCIE indexed, IF=0.449)
53. Tian Xia, Hironori Washizaki, Yoshiaki Fukazawa, Haruhiko Kaiya, Shinpei Ogata, Eduardo B. Fernandez, Takehisa Kato, Hideyuki Kanuka, Takao Okubo, Nobukazu Yoshioka and Atsuo Hazeyama, "CSPM: Metamodel for Handling Security and Privacy Knowledge in Cloud Service Development," *International Journal of Systems and Software Security and Protection (IJSSSP)*, Vol. 12, No. 2, IGI-Global, pp.1-18, 2021.
54. Daisuke Saito, Shota Kaieda, Hironori Washizaki, Yoshiaki Fukazawa, "Rubric for Measuring and Visualizing The Effects of Programming Learning for Elementary School Students," *Journal of Information Technology Education: Innovations in Practice (JITE:IIP)*, Vol. 19, pp.203-227, 2020. (ESCI/Scopus indexed)
55. Pablo Alejandro Quezada Sarmiento, Jon A. Elorriaga Arandia, Ana Arruarte, Hironori Washizaki, "Open BOK on Software Engineering Educational Context: A Systematic Literature Review," *Sustainability*, Vol. 12, No. 17 (12, 6858), pp.1-19, 2020. (SCIE indexed, IF= 2.576)
56. Hironori Washizaki, Shinpei Ogata, Atsuo Hazeyama, Takao Okubo, Eduardo B. Fernandez, Nobukazu Yoshioka, "Landscape of Architecture and Design Patterns for IoT Systems," *IEEE Internet of Things Journal*, Vol. 7, No. 10, pp.10091 – 10101, 2020 (SCIE indexed, IF=9.936)

57. Ryosuke Ishizue, Kazunori Sakamoto, Hironori Washizaki, and Yoshiaki Fukazawa, "PVC.js: Visualizing C Programs on Web Browsers for Novices," *Heliyon*, Volume 6, Issue 4, e03806, pp.1-16, 2020. (Cell Press, ESCI indexed)
58. Eduardo B. Fernandez, Hironori Washizaki and Nobukazu Yoshioka, "Using Security Patterns to Develop Secure Systems – Ten years later," *International Journal of Systems and Software Security and Protection (IJSSSP)*, Vol. 9, No. 4, pp. 46-56, IGI Global, 2019.
59. Yohei Aoki, Chimaki Shimura, Hironori Washizaki, Takanobu Kobori, Yoshiaki Fukazawa, Katsutoshi Shintani, and Takuto Nonomura, "Horizontal Relation Identification Method to Handle Misalignment of Goals and Strategies Across Organizational Units," *IEEE Access*, Vol. 7, No. 1, pp. 89766 – 89776, 2019. (SCIE indexed, IF=3.745)
60. Ryo Ishizuka, Naohiko Tsuda, Hironori Washizaki, Yoshiaki Fukazawa, Shunsuke Sugimura and Yuichiro Yauda, "Effects of software modifications and development after an organizational change on software metrics value," *IEICE Transactions on Information and Systems, Letter*, Vol.E102-D, No.9, pp.1693-1695, 2019. (SCIE indexed)
61. Taketo Tsunoda, Hironori Washizaki, Yoshiaki Fukazawa, Sakae Inoue, Yoshiiku Hanai, Masanobu Kanazawa, "Metrics to Predict Future Modifications and Defects Based on Software Requirements Specifications (SRSs)," *IEIE Transactions on Smart Processing and Computing*, Vol. 8, No. 3, pp. 210-218, 2019. (invited from TENCON 2018)(Scopus indexed)
62. Ryosuke Tsuchiya, Kazuki Nishikawa, Hironori Washizaki, Yoshiaki Fukazawa, Yuya Shinohara, Keishi Oshima, Ryota Mibe, "Recovering Transitive Traceability Links among Various Software Artifacts for Developers," *IEICE Transactions on Information and Systems*, Vol.E102-D, No.9, pp.1750-1760, 2019 (SCIE, Scopus indexed)
63. Jati H. Husen, Hironori Washizaki, Yoshiaki Fukazawa, "Potential GQM+Strategies Improvement using Balanced Scorecard's Perspectives," *IEIE Transactions on Smart Processing and Computing*, Vol. 8, No. 2, pp. 150-160, 2019. (invited from TENCON 2018)(Scopus indexed)
64. Mohab Aly, Foutse Khomh, Yann-Gael Gueheneuc, Hironori Washizaki, Soumaya Yacout, "Is Fragmentation a Threat to the Success of Internet of Things?," *IEEE Internet of Things Journal*, Vol. 6, No. 1, pp. 472 – 487, 2019.
65. Ali Sajjad Haris, Hironori Washizaki, Yoshiaki Fukazawa, "Systematic Review of Utilized ICTs in Quality Assurance and Accreditation of Higher Education and a Case Study of Developing Country," *EAI Endorsed Transactions on e-Learning*, Special Issue on Information systems enabling digitalized advances in society, Issue 18, pp. 1-15, 2019 (DBLP indexed)
66. 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 183-209, 2019. (DBLP, Scopus indexed)
67. Masashi Shuto, Hironori Washizaki, Yoshiaki Fukazawa, Shoso Yamato, Masashi Okubo, Bastian Tenbergen, "Personality and Learning Effectiveness of Teams in Information Systems Education Courses," *EAI Endorsed Transactions on e-Learning*, Special Issue on Information systems enabling digitalized advances in society, No. 17, pp. 1-9, 2018 (DBLP indexed)

68. 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*, Vol. 34, No. 5, pp. 1141-1173, 2018. (SCIE, Scopus, DBLP indexed)
69. 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)
70. Hironori Washizaki, Yann-Gael Gueheneuc, Foutse Khomh, "ProMeTA: A Taxonomy for Program Metamodels in Program Reverse Engineering," *Empirical Software Engineering (EMSE) journal*, Vol. 24, No. 3, pp. 2323-2358, 2018. (SCIE, Scopus, DBLP indexed)(invited by ICSME 2016 committee)
71. 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)
72. 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*, Vol. 13, No. 7, Springer, pp.1-20, 2018. (invited by ICCE 2017 committee)
73. 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)*, Vol. 27, No. 6, pp.967-993, 2017. (SCIE, Scopus, DBLP Indexed)
74. 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)
75. 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)
76. 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)
77. Hironori Washizaki, "Pitfalls and Countermeasures in Software Quality Measurements and Evaluations," *Advances in Computers*, Vol. 107, pp.1-22, Elsevier, 2017. (SCIE, DBLP indexed) (invited)

78. 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)
79. 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.5, No.1, pp.69-76, 2016. (SCIE, DBLP Indexed)
80. 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)
81. 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)
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216. Hironori Washizaki, Sota Fukumoto, Misato Yamamoto, Masatoshi Yoshizawa, Yoshiaki Fukazawa, Shinpei Ogata, Eduardo B. Fernandez, Nobukazu Yoshioka, Takehisa Kato, Haruhiko Kaiya, Hideyuki Kanuka, Yuki Kondo, Takao Okubo, Atsuo Hazeyama, "A Metamodel for Security and Privacy Knowledge in Cloud Services," Proceedings of the 12th IEEE World Congress on Services (IEEE SERVICES 2016) (CORE Rank B), Poster Paper, pp. 142-143, June 27 - July 2, 2016, San Francisco, USA.

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220. Hironori Washizaki, Yann-Gael Gueheneuc, Foutse Khomh, "A Taxonomy for Program Metamodels in Program Reverse Engineering," 32nd IEEE International Conference on Software Maintenance and Evolution (ICSME), pp. 44-55, October 2-10, Raleigh, North Carolina, USA. (CORE Rank A)
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231. Juhua Li, Kazunori Sakamoto, Hironori Washizaki, Yoshiaki Fukazawa, "Promotion of Educational Effectiveness by Translation-based Programming Language Learning Using Java and Swift," 50th Annual Hawaii International Conference on System Sciences (HICSS-50), Waikoloa, Hawaii, Jan 4-7, 2017. (CORE Rank A)
232. Harlin Ismail Rizky, Hironori Washizaki and Yoshiaki Fukazawa, "Impact of Using a Static-type System in Computer Programming," 18th IEEE International Symposium on High Assurance Systems Engineering (HASE 2017), student session, January 12 - 14, 2017, Singapore (CORE Rank B)
233. Ryosuke Ishizue, Kazunori Sakamoto, Hironori Washizaki, Yoshiaki Fukazawa, "An Interactive Web Application Visualizing Memory Space For Novice C Programmers," 48th ACM Technical Symposium on Computer Science Education (SIGCSE 2017), poster, March 8 - 11, 2017, Seattle, Washington, USA (CORE Rank A)(acceptance rate 34.5% = 48/139)
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244. Frederik Nakstad, Hironori Washizaki, Yoshiaki Fukazawa, "Finding and Emulating Keyboard, Mouse, and Touch Interactions and Gestures while Crawling RIA's," Proceedings of the 27th International Conference on Software Engineering and Knowledge Engineering (SEKE 2015), Wyndham Pittsburgh University Center, Pittsburgh, USA, July 6-8 2015. (CORE Rank B)
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