

CURRICULUM VITAE

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Tadashi DOHI, Professor/Dr. Engineering

Dependable Systems Laboratory

Department of Information Engineering Graduate School of Engineering

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Birth Place: Higashi-Hiroshima, Japan

Birth Year: 1965

Sex: Male

Citizenship: Japan

I. EDUCATION

- 1985-1989: Undergraduate from Hiroshima University, Bachelor of Engineering
- 1989-1991: Graduate from Hiroshima University, Master of Engineering
- 1995 (June): Obtain Doctor of Engineering Degree from Hiroshima University

Ph.D. Theses: Studies on optimal policies for several stochastic storage models, supervised by Professor Shunji Osaki.

II. PROFESSIONAL EMPLOYMENT RECORD

- 1992--1996: Assistant Professor, Department of Industrial and Systems Engineering, Faculty of Engineering, Hiroshima University
- 1992 (September--December): Visiting Research Scholar, Faculty of Commerce and Business Administration, University of British Columbia, Canada

- 1996--2000: Associate Professor, Department of Industrial and Systems Engineering, Faculty of Engineering, Hiroshima University
- 2000 (February--November): Visiting Research Scholar, Department of Electrical and Computer Engineering, Duke University, USA
- 2001: Associate Professor, Department of Information Engineering, Graduate School of Engineering, Hiroshima University
- 2002--present: Professor, Department of Information Engineering, Graduate School of Engineering, Hiroshima University

III. TEACHING EXPERIENCES

III-1. Courses in University

- 1992-1995: Systems Experiments II (for 3rd degree undergraduate students)
- 1996, 2001-Present: Applied Probability Theory (for 3rd degree undergraduate students)
- 1996-1999: Systems Reliability Engineering (for 3rd degree undergraduate students)
- 1997-2000: Introduction of Computer Programing (for 1st degree undergraduate students)
- 1996-1999: Advanced Course on Statistical Engineering ((for graduate students)
- 2001-Present: Applied Statistics (for 2nd degree undergraduate students)
- 2001-2002: Advanced Course on Fault-Tolerant Systems (for graduate students)
- 2003-Present: Advanced Course on Software Reliability Engineering (for graduate students)

III-2. Ph.D. Theses Supervised

1. Yasuhide SHINOHARA, A study on software reliability assessment methods applying artificial neural networks (in Japanese), March 1998, Hiroshima University: Advisor
2. Hiroyuki OKAMURA, A study on the optimal shutdown scheduling in dynamic power management, March 2001, Hiroshima University: Advisor
3. Yasuhiko NISHIO, A study on optimal software release problems and their solutions under uncertain testing circumstance (in Japanese), March 2002, Hiroshima University: Supervisor

4. Kazuki IWAMOTO, A study on preventive maintenance for operational software systems, March 2007, Hiroshima University: Supervisor
5. Shinji INOUE, Researches on adaptive network control methods based on an autonomous decentralized scheme (in Japanese), March 2013, Hiroshima University: Supervisor
6. Xiao XIAO, A study on wavelet-based approaches for software reliability assessment, March 2013, Hiroshima University: Supervisor
7. Chao LUO, A study on model-based performance evaluation of dependable computer systems, September 2015, Hiroshima University: Advisor
8. Junjun ZHENG, A study on sensitivity approaches for dependable systems design, March 2016, Hiroshima University: Advisor
9. Yasuhiro SAITO, A study on nonparametric inference approaches for stochastic point processes and their reliability applications, March 2016, Hiroshima University: Supervisor
10. Zhipeng YI, A study on network survivability analysis for ad hoc networks, March 2016, Hiroshima University: Supervisor
11. Momotaz BEGUM, TBD, September 2017, Hiroshima University: Supervisor

IV. PROFESSIONAL ACTIVITIES

IV-1. Memberships in Professional Academic Societies

- 1990-present: The Operations Research Society of Japan (ORSJ): Regular Member
- 1994-present: The Institute of Electronics, Information and Communication Engineers (IEICE) Engineering Sciences Society): Regular Member
- 2009-present: The Reliability Engineering Association of Japan (REAJ): Regular Member
- 2000-present: IEEE Computer Society, Reliability Society: Regular Member
- 2013-present: Information Processing Society of Japan (IPSJ): Regular Member
- 1996-1999: Society of Economic Dynamics and Control
- 1993-2013: Japan Applied Mathematics Society
- 1994-2009: The Institute of Systems, Control and Information Engineers (ISCIE)
- 1994-2006: The Society of Instrument and Control Engineering (SICE)

IV-2. Academic Qualifications

- 1992-2003: Secretary, Chugoku-Shikoku Branch, ORSJ
- 2004-2015: Operation Committee Member, Chugoku-Shikoku Branch, ORSJ
- 2004-2009: Research Promotion Committee Member, ORSJ
- 2014-2016: Chairman of Special Interest Group on Reliability, ORSJ
- 2013-present: Operation Committee Member, Special Interest Group on Software Engineering, IPSJ
- 2011-2012: Vice Chair, IEEE Reliability Society, Japan Chapter
- 2013-2014: Chair, IEEE Reliability Society, Japan Chapter
- 2016-present: Chair, Chugoku-Shikoku Branch, ORSJ
- 2016-present: Vice President, REAJ

IV-3. Awards

- 1999: The 20th Empirical Research Award, The Operations Research Society of Japan [Paper: M. Hatanaka, T. Fujie, T. Dohi and S. Osaki, "Application of fuzzy quantitative and mathematical method to evaluate the land price as fixed assets (in Japanese)", *Communications of the Operations Research Society of Japan*, vol. 44, no. 6, pp. 308--316, 1999].
- 2005: Best Paper Award in International Conference on Reliability and Safety Engineering (ICNCRESE 2005), Bhubaneswar, India, December 21--23 (2005) [Paper: H. Okamura, M. Ito and T. Dohi, "A subordinated Markov chain model for assessing software safety," *Proceedings of International Conference on Reliability and Safety Engineering*, pp. 363--373, 2005].
- 2010: Best Paper Award in The 4th Asia-Pacific International Symposium on Advanced Reliability and Maintenance Modeling (APARM 2010), Wellington, New Zealand, December 2--4 (2010) [Paper: T. Dohi, H. Okamura and S. Osaki, "Transient analysis of software availability models with rejuvenation," *Proceedings of 4th Asia-Pacific International Symposium on Advanced and Maintenance Modeling*, pp. 169--176, 2010].
- 2012: Best Paper Award in The 6th IEEE International Conference on Software Security and Reliability (SERE-2012), Washington DC, USA, June 20--22 (2012) [Paper: X. Xiao and T. Dohi, "Robust wavelet shrinkage estimation without data transform for software reliability assessment," *Proceedings of the 6th IEEE International Conference on Software Security and Reliability (SERE-2012)*, pp. 215--224, IEEE CPS, 2012].
- 2014: Best Paper Award in The 2014 International Conference on Quality, Reliability, Risk, Maintenance, and Safety Engineering (QR2MSE 2014), Dalian,

China, July 22--25 (2014) [Paper: H. Okamura, J. Guan, C. Luo and T. Dohi, "Quantifying resiliency of virtualized system with software rejuvenation," *Proceedings of The 2014 International Conference on Quality, Reliability, Risk, Maintenance, and Safety Engineering (QR2MSE 2014)*, 6 pages, 2014].

- 2016: Fellowship in ORSJ

IV-4. Editorial Experience in Academic Journals

- 1997-1999: *Communications on Dependability and Quality Management in Engineering*, An International Journal, International Editorial Board Member
- 1997-present: IEICE Referee Member
- 2001-2005: Editorial Board Member of *Transactions of IEICE (A)*
- 2001-2003: Editorial Board Member of *Bulletin of the Japan Society for Industrial and Applied Mathematics*
- 2004-present: *Asia-Pacific Journal of Operational Research*, Associate Editor
- 2005-present: *Journal of Risk and Reliability*, Editorial Board Member
- 2005: Deputy Editor of *Transactions of IEICE (A)*
- 2005-2008: *IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences (A)*, Associate Editor
- 2006: *Journal of Autonomic and Trusted Computing*, Editorial Board Member
- 2008-present: *International Journal of Reliability and Quality Performance*, Editorial Board Member
- 2008: Vice Secretary of *IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences (A)*
- 2009: Deputy Editor of *IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences (A)*
- 2009-present: *International Journal of Quality, Statistics, and Reliability*, Editorial Board Member
- 2012-present: *International Journal on Computer Science and Technology*, Editorial Board Member
- 2012-present: *Advanced Science and Technology Letters*, Editorial Board Member
- 2013-present: *International Journal of Industrial Engineering: Theory, Applications and Practice*, Associate Editor
- 2014-present: *International Journal of Mathematics and Statistics*, Editorial Board Member

- 2015-present: *International Journal of Performability Engineering*, Editorial Board Member
- 2015-present: *Journal of Reliability and Statistical Studies*, Editorial Board Member
- 2016-present: *IEEE Transactions on Reliability*, Associate Editor
- 1997-1998: *Journal of Quality in Maintenance Engineering* (Special Issue on Advances in Reliability and Maintainability in Japan), vol. 4, no. 4, (1998), Guest Associate Editor
- 2001-2002: *The Transactions of the Institute of Electronics, Information and Communication Engineering (IEICE) (A)* (Special Section for Papers with Digital Data), vol. J85-A, no. 2 (2002), Guest Associate Editor
- 2002-2003: *IEICE Transactions on Communications/IEICE Transactions on Information and Systems* (IEICE/IEEE Joint Special Issue on Assurance Systems and Networks), vol. E86-B/E86-D, no. 10 (2003), Guest Associate Editor
- 2004-2005: *The Transactions of the Institute of Electronics, Information and Communication Engineering (IEICE) (A)* (Special Section for Papers with Digital Data), vol. J88-A, no. 1 (2005), Guest Associate Editor
- 2004-2005: *IEICE Transactions on Communications/IEICE Transactions on Information and Systems* (IEICE/IEEE Joint Special Issue on Autonomous Decentralized Systems), vol. E88-B, no. 12 (2005) and E88-D, no. 12 (2005), Guest Associate Editor
- 2004-2005: *International Journal of Quality and Reliability Management* (Special Issue of Optimal Warranty Policies and Their Related Topics), vol. 22, no. 7 (2005), Guest Editor
- 2004-2005: *Journal of Quality in Maintenance Engineering* (Selected Papers from 2004 Asian International Workshop on Advanced Reliability Modeling), vol. 11, no. 3 (2005) and vol. 12, no. 4 (2006) Guest Editor
- 2004-2005: *International Journal of Reliability, Quality and Safety Engineering* (Special Issue of 2004 Asian International Workshop on Advanced Reliability Modeling), vol. 12, no. 3 (2005), Guest Editor
- 2005: *Journal of Reliability Engineering Association of Japan* (Special Section: Recent Advances in Software Reliability Engineering), vol. 27, no. 7 (2005), Guest Editor

- 2002-2006: *European Journal of Operational Research* (Special Issue of Mathematical Finance and Risk Assessment), vol. 168, no. 2 (2006), Guest Editor
- 2002-2007: *Computers & Mathematics with Applications* (Special Issue of the Second Euro-Japanese Workshop on Stochastic Modelling for Finance, Insurance, Production and Reliability), vol. 51, no. 2 (2006), Guest Editor
- 2007: *Communications in Operations Research Society of Japan* (Special Section: Reliability), vol. 52, no. 7 (2007), Guest Editor
- 2006-2007: *Journal of Risk and Reliability* (Special Issue: Advanced Warranty Modelling), vol. 221, no. 4, (2007), Guest Editor
- 2006-2007: *International Journal of Industrial Engineering* (Special Issue: Reliability Practice in Engineering and Industry), vol. 14, no. 4, (2007), Guest Editor
- 2008-2009: *Quality Technology and Quantitative Management* (Special Issue: Statistical Reliability Modeling and Optimization), vol. 6, no. 1, (2009), Guest Editor
- 2008-2009: *IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences (A)* (Special Section on Recent Advances in Technologies for Assessing System Reliability), vol.E92-A, no. 7 (2009), Guest Associate Editor
- 2008-2010: *Communications in Statistics -- Theory and Applications* (Special Issue: Statistical Reliability Modeling in Business and Industry), vol. 39, no. 13, (2010), Guest Editor
- 2008-2010: *Asia-Pacific Journal of Operational Research* (Special Issue: Stochastic Finance), vol. 27, no. 2, (2010), Guest Editor
- 2008-2010: *Communications in Statistics -Theory and Methods*, vol. 39, no. 3 (2010), Guest Editor
- 2011-2012: *IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences/IEICE Transactions on Information and Systems* (Joint Special Issue on Software Reliability Engineering), vol. vol. E95-A, no. 9 (2012) and E95-D, no. 9 (2012), Guest Editor
- 2012-2013: *Telecommunication Systems Journal* (Special Issue: Multi-disciplinarily Inspired Networks and Systems), vol. 54, no. 1 (2013), Guest Editor
- 2012-2013: *Reliability Engineering and System Safety*, vol. 116 (2013), Guest Editor

- 2012-2013: *IEICE Transactions on Information & Systems (D)* (Special Issue: Dependable Computing), vol. E96-D, no. 9 (2013), Guest Associate Editor
- 2010-2013: *Applied Stochastic Models in Business and Industry* (Special Issue: Statistical Reliability and Maintenance Modeling), vol. 29 (2013), Guest Editor
- 2011-2014: *ACM Journal on Emerging Technologies in Computing Systems* (Special Issue on WoSAR 2011), vol. 10, no. 1 (2014), Guest Editor
- 2013-2014: *Journal of Reliability Engineering Association of Japan* (Special Section: Software aging and rejuvenation), vol. 36, no. 1 (2014), Guest Editor.
- 2014-2015: *Communications in Statistics -- Simulation and Computation* (Special Section: The 5th Asia-Pacific International Symposium on Advanced Reliability and Maintenance Modeling (APARM 2012)), vol. 43, no. 8 (2014), Guest Editor
- 2014-2015: *Quality Technology and Quantitative Management* (Special Issue: Quantitative evaluation in reliability and maintenance), vol. 11, no. 3, (2014), Guest Editor
- 2012-2013: *Computing* (Special Section on Autonomic and Trusted Computing), (2014), Guest Editor
- 2014-2015: *International Journal of Performability Engineering* (Special Issue on Stochastic Reliability Modeling and Optimization), vol. 11, no. 4 (2015), Guest Editor
- 2014-2015: *IEICE Transactions on Fundamentals* (Special Issue on Recent Development on Reliability, Maintainability and Dependability), vol. E98-A, no. 10 (2015), Guest Associate Editor
- 2014-2015: *Journal of Risk and Reliability* (Special Issue on APARM 2014), (2015), Guest Editor
- 2015-2016: *Journal of the Operations Research Society of Japan* (Special Issue on Recent Advances in Reliability and Maintenance), (2016), Guest Editor
- 2015-2016: *Journal of Computation Science* (Special Issue on Computational Reliability in Engineering and Science), (2016), Guest Editor

IV-5. Organizing Experience of Academic Conferences

- 1995 Spring Meeting of ORSJ (March 27-28, 1995, Hiroshima) Organization Committee Member.
- 32nd SSOR (August 18--21, 1997, Kure, Japan) Organization Committee Member.

- 9th RAMP Symposium (September 25-26, 1997, Higashi-Hiroshima) Organization Committee Member.
- 8th SICE Chugoku Branch Meeting (November 27, 1999, Higashi-Hiroshima, Japan) Organization Committee Member.
- International Conference on Applied Stochastic System Modeling (March 29-30, 2000, Kyoto) **PC Co-Chair**, Publication Chair.
- The 12th IEEE International Symposium on Software Reliability Engineering (ISSRE 2001) (November 28-December 1, 2001, Hong Kong, China) PC Member.
- Second Euro-Japanese Workshop on Stochastic Risk Modelling for Finance, Insurance, Production and Reliability (September 18-20, 2002, Chamonix, France) PC Member.
- The 7th IEEE International High-Assurance Systems Engineering Symposium (HASE 2002) (October 23-25, 2002, Tokyo, Japan) PC Member.
- The 7th Annual International Conference on Industrial Engineering, Theory, Applications and Practice (October 24-26, 2003, Busan, Korea) International Advisory Committee Member.
- The 2nd IEEE Computer Society International Workshop on Autonomous Decentralized Systems (IWADS 2002) (November 4-6, Beijing) PC Member.
- 2nd International Conference on Quality Reliability and IT (ICQRIT 2003) (December 18-20, 2003, New Delhi) International PC Member.
- 10th ISSAT International Conference on Reliability and Quality in Design (ISSAT 2004) (August 5-7, 2004, Las Vegas) PC Member.
- Asian International Workshop on Advanced Reliability Modeling (AIWARM 2004) (August 28--29, 2004, Hiroshima, Japan) **General Co-Chair**
- International Performance and Dependability Symposium (IPDS), in conjunction with The International Conference on Dependable Systems and Networks (DSN-2005) (June 28- July 1, 2005, Yokohama, Japan) PC Member.
- First International Workshop on Reliability and Autonomic Management in Parallel and Distributed Systems (RAMPDS-2005), in conjunction with The 11th International Conference on Parallel and Distributed Systems (July 20-22, 2005, Fukuoka, Japan) International Advisory Committee Member.
- 11th ISSAT International Conference on Reliability and Quality in Design (ISSAT 2005) (August 4-6, 2005, St. Louis) PC Member.
- SICE 2005 Annual Conference (August 8-10, 2005, Okayama, Japan) PC Member.

- 2005 International Workshop on Recent Advances in Stochastic Operations Research (2005 RASOR Canmore) (August 25-26, 2005, Canmore, Canada)

PC Chair

- International Forum for Research, Teaching, and Practice of Operations and Supply Chain Management (December 15-17, 2005, Bali) International PC Member.
- International Conference on Reliability and Safety Engineering (INCRESE 2005) (December 21-23, 2005, Bhubaneswar) PC Member.
- First IFIP Workshop on Trusted and Autonomic Ubiquitous and Embedded Systems, in conjunction with 2005 IFIP International Conference on Embedded and Ubiquitous Computing (EUC' 2005) (December 6-9, 2005, Nagasaki) International Advisory Committee Member.
- IEEE International Workshop on Trusted and Autonomic Computing Systems (RACS-06), in conjunction with 20th IEEE International Conference on Advanced Information Networking and Applications (AINA 2006) (April 18--20, 2006, Vienna) International Advisory Committee Member.
- The 3rd International Service Availability Symposium (ISAS 2006) (March 15--16, 2006, Helsinki) PC Member
- International Performance and Dependability Symposium (IPDS), in conjunction with The International Conference on Dependable Systems and Networks (DSN-2006) (June 25--28, 2006, Philadelphia) PC Member, Student Forum Committee Member.
- The 2nd International Conference on Autonomic and Autonomous Systems (ICAS 2006) (July 19--21, 2006, Silicon Valley) PC Member.
- 12th ISSAT International Conference on Reliability and Quality in Design (ISSAT 2006) (August 3--5, 2006, Chicago) PC Member.
- 2nd Asian International Workshop on Advanced Reliability Modeling (AIWARM 2006) (August 24--25, 2006, Busan) **General Co-Chair**
- The 3rd International Conference on Autonomic and Trusted Computing (ATC-06) (September 3--6, 2006, Wuhan and Three Gorges, China) International Advisory Committee Member
- International Workshop on Security, Privacy, and Trust for Pervasive Computing Applications (SPTP 2006), in conjunction with 30th Annual International Computer Software and Applications Conference (COMPSAC 2006) (September 18--21, 2006, Chicago) PC Member

- The 2nd IEEE International Symposium on Dependable Autonomic and Secure Computing (DASC' 06) (September 29--October 1, 2006, Indianapolis) International Advisory Committee Member.
- The 17th International Symposium on Software Reliability Engineering (ISSRE'06) (November 6--11, 2006, Raleigh) Student Paper Program Committee Member.
- 3rd International Conference on Quality, Reliability and Infocom Technology (ICQRIT 2006) (December 2--4, 2006, New Delhi) International PC Member.
- The 8th International Conference on Information Integration and Web-based Applications & Services (iiWAS'2006) (December 4--7, 2006, Yogyakarta, Indonesia) PC Member.
- 2007 International Workshop on Recent Advances in Stochastic Operations Research (2007 RASOR Nanzan) (March 5-6, 2007, Nagoya) **PC Chair**
- The 57th ORSJ Symposium (March 27, 2007, Tottori) General Chair.
- The 4th International Service Availability Symposium (ISAS 2007) (May 21--22, 2007, Durham, New Hampshire) Steering Committee Member, PC Member.
- International Performance and Dependability Symposium (IPDS), in conjunction with The International Conference on Dependable Systems and Networks (DSN-2007) (June 25--28, 2007, Edinburgh) PC Member.
- 5th International Conference on Mathematical Methods in Reliability -- Methodology and Practice (MMR 2007) (July 1--4, 2007, Glasgow) Scientific Committee Member.
- 2007 International Conference on ICT in Teaching and Learning (ICT-2007) (July 9--10, 2007, Hong Kong) PC Member.
- The 4th International Conference on Autonomic and Trusted Computing (ATC-07) (July 11--13, 2007, Hong Kong) International Advisory Committee Member.
- 2nd IEEE International Workshop on Security, Trust, and Privacy for Software Applications (STPSA 2007), in conjunction with 31st Annual International Computer Software and Applications Conference (COMPSAC 2007) (July 24--27, 2007, Beijing) PC Member.
- 13th ISSAT International Conference on Reliability and Quality in Design (ISSAT 2007) (August 2--4, 2007, Seattle) PC Member.
- The 3rd IEEE International Symposium on Dependable Autonomic and Secure Computing (DASC' 07) (September 25--27, 2007, , Columbia) International Advisory Committee Member.

- The 18th International Symposium on Software Reliability Engineering (ISSRE'07) (November 5--9, 2007, Trollhattan, Sweden) Student Paper Program Co-Chair, PC Member.
- The 11th IASTED International Conference on Software Engineering and Applications (SEA 2007) (November 19--21, 2007, Cambridge, MA) International PC Member.
- The 4th International Conference on Autonomic and Autonomous Systems (ICAS 2008) (March 16--21, 2008, Gosier, Guadeloupe) PC Member.
- International Performance and Dependability Symposium (IPDS), in conjunction with The International Conference on Dependable Systems and Networks (DSN-2008) (June 24--27, 2008, Anchorage, Alaska) PC Member.
- The 5th International Conference on Autonomic and Trusted Computing (ATC-08) (June 23--25, 2008, Oslo, Norway) **PC Co-Chair**
- The 5th International Service Availability Symposium (ISAS 2008) (May 19--21, 2008, Tokyo, Japan) Steering Committee Member, PC Member.
- 2008 International Conference on Advanced in Product Development and Reliability (PDR' 08) (August 4--6, 2008, Chengdu, China) International PC Member.
- The 10th IEEE International Conference on High Performance Computing and Communications (HPCC'08) (September 25—27, 2008, Dalian, China) PC Member
- The 3rd Asian International Workshop on Advanced Reliability Modeling (AIWARM 2008) (October 23--25, 2008, Taichung, Taiwan) **General Co-Chair, Steering Committee Chair**
- The 1st International Workshop on Software Aging and Rejuvenation (WoSAR'08), in conjunction with The 19th International Symposium on Software Reliability Engineering (ISSRE'08) (November 10, 2008, Redmond/Seattle, USA) **General Chair**
- The 19th International Symposium on Software Reliability Engineering (ISSRE'08) (November 10--14, 2008, Redmond/Seattle, USA) PC Member
- The 12th IASTED International Conference on Software Engineering and Applications (SEA'08) ((November 16--18, 2008, Orlando, Florida, USA) International PC Member
- The 14th IEEE Pacific Rim International Symposium on Dependable Computing (PRDC'08) (December 15--17, 2008, Taipei, Taiwan) PC member

- The 5th International Conference on Autonomic and Autonomous Systems (ICAS'09) (April 21--25, 2009, Valencia, Spain) PC Member
- The 11th IEEE International Conference on High Performance Computing and Communications (HPCC'09) (June 25--27, 2009, Seoul, Korea) PC Member
- International Performance and Dependability Symposium (IPDS'09), in conjunction with The International Conference on Dependable Systems and Networks (DSN'09) (June 29—July 2, 2009, Lisbon, Portugal) PC Member
- The 1st International Workshop on Proactive Failure Avoidance, Recovery and Maintenance (PFARM'09), in conjunction with The International Conference on Dependable Systems and Networks (DSN'09) (June 29, 2009, Lisbon, Portugal) PC Member
- The 8th International Conference on Reliability, Maintainability and Safety (ICRMS'09) (July 21--25, 2009, Chengdu, China) PC Member
- The 4th IEEE International Workshop on Security, Trust, and Privacy for Software Applications (STPSA'09), in conjunction with 33rd Annual International Computer Software and Applications Conference (COMPSAC'09) ((July 20--24, 2009, Seattle, USA) PC Member
- The IEEE International Conference on Scalable Computing and Communications (ScalCom'09) (September 25 --27, 2009, Dalian, China) PC Member
- The 13th IASTED International Conference on Software Engineering and Applications (SEA'09) (November 2 --4, 2009, Cambridge, Massachusetts, USA) International PC Member
- RIMS (Research Institute for Mathematical Sciences, Kyoto University) Meeting on Decision Making Processes under Uncertainty and Ambiguity (November 10--12, 2009, Kyoto, Japan) **General Chair**
- The 15th IEEE Pacific Rim International Symposium on Dependable Computing (PRDC'09) (November 16 --18, 2009, Shanghai, China) PC Member
- The 20th International Symposium on Software Reliability Engineering (ISSRE'09) (November 15 --18, 2009, Bangalore/Mysore, India) PC Member
- The 2009 International Conference on Advanced Software Engineering & Its Applications (ASEA'09) (December 10--12, 2009, Jeju Island, Korea) Special Session Organizer
- The 4th International Conference on Quality Reliability and IT (ICQRIT'09) (December 18--20, 2009, New Delhi, India) International PC Member

- The 6th International Conference on Autonomic and Autonomous Systems (ICAS'10) (March 7--12, 2010, Cancun, Mexico) PC Member
- The 2nd International Conference on Advanced Computer Science and Information Technology (AST'10) (June 23--25, 2010, Miyazaki, Japan) Special Session Organizer
- International Performance and Dependability Symposium (IPDS'10), in conjunction with The International Conference on Dependable Systems and Networks (DSN'10) (June 28 --July 1, 2010, Chicago, USA) PC Member
- The 2nd International Workshop on Proactive Failure Avoidance, Recovery and Maintenance (PFARM'10), in conjunction with The International Conference on Dependable Systems and Networks (DSN'10) (June 28, 2010, Chicago, USA) PC Member
- The 10th International Conference on Quality Software (QSIC'10) (July 14 -- 15, 2010, Zhangjiajie, China) PC Member
- The 5th IEEE International Workshop on Security, Trust, and Privacy for Software Applications (STPSA'10), in conjunction with 34th Annual International Computer Software and Applications Conference (COMPSAC'10) (July 19 --23, 2010, Seoul, Korea) PC Member
- The 12th IEEE International Conference on High Performance Computing and Communications (HPCC'10) (September 1--3, 2010, Melbourne, Australia) PC Member
- The 2nd International Symposium on Multidisciplinary Emerging Networks and Systems (MENS'10) (October 26 -- 29, 2010, Xi'an, China) **General Chair**
- The 2nd International Workshop on Software Aging and Rejuvenation (WoSAR'10), in conjunction with The 20th International Symposium on Software Reliability Engineering (ISSRE'10) (November 1, 2010, San Jose, USA) **General Chair**
- The 21st International Symposium on Software Reliability Engineering (ISSRE'10) (November 1 --4, 2010, San Jose, USA) PC Member
- The 14th IASTED International Conference on Software Engineering and Applications (SEA'10) (November 8 --10, 2010, Marina Del Rey, Los Angeles, USA) International PC Member
- 4th Asia-Pacific International Symposium on Advanced Reliability and Maintenance Modeling (APARM'10) (December 2--4, 2010, Wellington, New Zealand) **General Chair, Steering Committee Chair**

- The 16th IEEE Pacific Rim International Symposium on Dependable Computing (PRDC'10) (December 13 --15, 2010, Tokyo, Japan) PC Member
- The 26th Annual ACM Symposium on Applied Computing (SAC'11) -- The Software Engineering Track -- (March 21--25, 2011, Taichung, Taiwan) PC Member
- The Workshop on Dynamic Aspects in Dependability Models for Fault-Tolerant Systems (DYADEM-FTS 2011), in conjunction with Fifth Latin-American Symposium on Dependable Computing (LADC 2011) (April 25--29, 2011, São Paulo, Brazil) PC Member
- The 7th IMA International Conference on Modelling in Industrial Maintenance and Reliability (MIMAR'11) (April 18 --19, 2011, Cambridge, UK) Scientific Committee Member
- International Satellite Seminar on Role of Mathematics in Science and Engineering (ISSRMSE-2011) (May 13--1, 2011, Dehradun, India) International Advisory Committee Member
- The 7th International Conference on Autonomic and Autonomous Systems (ICAS'11) (May 22--27, 2011, Venice, Italy) PC Member
- International Conference on Quality, Reliability, Maintenance, and Safety (QR2MSE 2011) (June 17--19, 2011, Xi'an, China) PC Member, Special Session Organizer
- The 7th International Conference on Mathematical Methods in Reliability -- Methodology and Practice (MMR'11) (June 20--24, Beijing, China) Scientific Committee Member, Special Session Organizer
- International Dependable Computing and Communication Symposium (DCCS'11), in conjunction with The International Conference on Dependable Systems and Networks (DSN'11) (June 27 -- 30, 2011, Hong Kong, China) PC Member
- The 1st International Workshop on Open Systems Dependability: Adaptation to Changing World, in conjunction with The International Conference on Dependable Systems and Networks (DSN'11) (June 27, 2011, Hong Kong, China) PC Member
- The 3rd International Workshop on Proactive Failure Avoidance, Recovery and Maintenance (PFARM'11), in conjunction with The International Conference on Dependable Systems and Networks (DSN'11) (June 27, 2011, Hong Kong, China) PC Member

- The 5th Workshop on Recent Advances in Intrusion-Tolerant Systems (WRAITS 2011), in conjunction with The International Conference on Dependable Systems and Networks (DSN'11) (June 27, 2011, Hong Kong, China) PC Member
- The 11th International Conference on Quality Software (QSIC'11) (July 13 –14, 2011, Madrid, Spain) PC Member
- The 8th International Conference on Autonomic and Trusted Computing (ATC-2011) (September 2 --4, 2011, Banff, Canada) International Advisory Committee Member
- The 2011 FTRA International Workshop on Intelligent Recommendation and Personalization (IRP 2011) in conjunction with The 2011 FTRA International Conference on Intelligent Robotics, Automations, telecommunication facilities, and applications (IRoA-11) (October 20 -- 22, 2011, Gwangju, Korea) PC Member
- The 2011 Research in Applied Computation Symposium (RACS 2011) (November 2 -- 5, 2011, Miami, USA) PC Member
- The 22nd International Symposium on Software Reliability Engineering (ISSRE'11) (November 29 –December 2, 2011, Hiroshima, Japan) **General Chair**
- The 17th IEEE Pacific Rim International Symposium on Dependable Computing (PRDC'11) (December 12 --14, 2011, Pasadena, USA) PC Member
- The 7th International Symposium on Wireless sensor network Technologies and Applications for Smart Space (WTA 2011) (December 12 --15, 2011, Jeju, Korea) PC Member
- The 15th IASTED International Conference on Software Engineering and Applications (SEA 2011) (December 14 --16, 2011, Dallas, USA) PC Member
- The 1st International Conference on Operations Research and Enterprize Systems (ICORES 2012) (February 4 --6, 2012, Vilamoura, Algarve, Portugal) PC Member
- The 1st International Conference on Sensor Networks (SENSORNETS 2012) (February 24 --26, 2012, Rome, Italy) PC Member
- The 8th International Conference on Autonomic and Autonomous Systems (ICAS'12) (March 25--29, 2012, St. Maarten, Netherlands Antilles) PC Member
- The 27th Annual ACM Symposium on Applied Computing (SAC'12) -- The Software Engineering Track -- (March 25--29, 2012, Trento, Italy) PC Member

- The 1st International Conference on Intelligent Systems and Applications (INTELLI 2012) (April 29—March 4, 2012, Chamonix, France) PC Member
- Software Symposium 2012 (SS 2012) (June 12--14, 2-12, Fukui, Japan) PC Member
- International Conference on Quality, Reliability, Maintenance, and Safety (QR2MSE 2012) (June 15--18, 2012, Chengdu, China) PC Member
- The 2012 International Conference on Computer Science and Technology (CST 2012) (June 25--27, 2012, Jeju, Korea) PC Member
- The 6th International Conference on Software Security and Reliability (SERE 2012) (June 20--22, 2012, Washington D.C., USA) PC Member
- International Performance and Dependability Symposium (PDS'12), in conjunction with The International Conference on Dependable Systems and Networks (DSN'12) (June 25 -- 28, 2012, Boston, USA) PC Member
- The 36th Annual International Conference on Computers, Software and Applications (COMPSAC'12) (July 16 --20, 2012, Izmir, Turkey) Program Track Chair on Reliability, Metrics, and Fault Tolerance
- The 9th International Conference on Autonomic and Trusted Computing (ATC'12) (September 4 --7, 2012, Fukuoka, Japan) **General Chair**
- The 9th International Conference on Ubiquitous Intelligence and Computing (UIC'12) (September 4 --7, 2012, Fukuoka, Japan) **General Executive Chair**
- The 12th International Conference on Algorithms and Architectures for Parallel Processing (ICA3PP'12) (September 4 --7, 2012, Fukuoka, Japan) International Advisory Committee Member
- IEEE 15th International Conference on Computational Science and Engineering (CSE-2012) (October 3 --5, 2012, Nicosia, Cyprus) PC Member
- The 2012 Research in Applied Computation Symposium (RACS 2012) (October 23 -- 26, 2012, San Antonio, USA) PC Member
- The 5th Asia-Pacific International Symposium on Advanced Reliability and Maintenance Modeling (APARM'12) (November 1--3, 2012, Nanjing China) **General Chair, Steering Committee Chair**
- The 16th IASTED International Conference on Software Engineering and Applications (SEA'12) (November 12 --14, 2012, Las Vegas, USA) International PC Member
- The 7th International Conference on Software Engineering Advances (ICSEA 2012) (November 18--23, 2012, Lisbon, Portugal) PC Member

- The 18th IEEE Pacific Rim International Symposium on Dependable Computing (PRDC'12) (November 19 --20, 2012, Niigata, Japan) PC Chair
- The 8th International Symposium on Wireless Sensor Network Technologies and Applications for Smart Space (WTA 2012) (November 22--25, 2012, Jeju, Korea) PC Member
- The 6th International Conference on Quality, Reliability, Infocom Technology and Industrial Technology Management (ICQRITM 2013) (November 26 --28, 2012, Delhi, India) International Advisory Committee.
- The 23rd International Symposium on Software Reliability Engineering (ISSRE'12) (November 27 --30, 2012, Dallas, USA) PC Member, FA-PC Member
- The 4th International Workshop on Software Aging and Rejuvenation (WoSAR'12), in conjunction with The 23rd International Symposium on Software Reliability Engineering (ISSRE'12) (November 27 --30, 2012, Dallas, USA) PC Member
- The 2nd International Workshop on Open Systems Dependability: Adaptation to Changing World (WOSD'12), in conjunction with The 23rd International Symposium on Software Reliability Engineering (ISSRE'12) (November 27 --30, 2012, Dallas, USA) PC Member
- The International Conference on Sensor and Its Applications (SIA 2012) (November 28 --30, 2012, Jeju, Korea) PC Member
- The 2012 International Conference on Human Computer Interaction (ICHCI 2012) (November 28 --30, 2012, Jeju, Korea) PC Member
- The 2012 International Conference on Automotive Science and Technology (ASNT 2012) (November 28 --30, 2012, Jeju, Korea) PC Member
- The International Conference on Modeling and Simulation 2012 (MAS 2012) (November 28 --30, 2012, Jeju, Korea) PC Member
- The 2012 International Conference on Automotive Science and Technology (ASNT 2012) (November 28 --30, 2012, Jeju, Korea) PC Member
- The 2012 International Conference on Disaster Recovery and Business Continuity (DRBC 2012) (November 28 --30, 2012, Jeju, Korea) PC Member
- The Circuits, Control, Communication, Electricity, Electronics, Energy, System, Signal, Simulation (CES-CUBE 2012) (November 28 --30, 2012, Jeju, Korea) PC Member

- The 19th Asia-Pacific Software Engineering Conference (APSEC 2012) (December 4 --7, 2012, Hong Kong, China) Emerging Research Track PC Member
- The 2nd International Conference on Operations Research and Enterprize Systems (ICORES 2013) (February 16--18, 2013, Barcelona, Spain) PC Member
- The 2013 FTRA International Conference on Advanced IT, engineering and Management (FTRA AIM-13) (February 21 --23, 2013, Seoul, Korea) PC Member
- The 28th Annual ACM Symposium on Applied Computing (SAC'13) -- The Software Engineering Track -- (March 18--22, 2013, Coimbra, Portugal) PC Member
- The 9th International Conference on Autonomic and Autonomous Systems (ICAS 2013) (March 24 --29, 2013, Lisbon, Portugal) PC Member
- The 2013 World Conference on Information Systems and Technologies (WorldCIST'13) (March 27 --30, 2013, Algarve, Portugal) PC Member
- The 2nd International Conference on Intelligent Systems and Applications (INTELLI 2013) (April 22-- 26, 2013, Venice, Italy) PC Member
- The 2nd International Conference on Software Technology (SoftTech 2013) (April 26-- 27, 2013, Yeosoo, Korea) International Advisory Committee.
- The 7th International Conference on Software Security and Reliability (SERE 2013) (June 18--20, 2013, Washington D.C., USA) PC Member, Student Doctoral Program Chair
- International Performance and Dependability Symposiu (PDS'13), in conjunction with The International Conference on Dependable Systems and Networks (DSN'13) (June 24 -- 27, 2013, Budapest, Hungary) PC Member
- The 20th IEEE International Conference on Web Services (ICWS 2013) (June 27—July 2, 2013, Santa Clara, USA) PC Member
- The 8th International Conference on Mathematical Methods in Reliability -- Methodology and Practice (MMR'13) (July 1--4, 2013, Stellenbosch, South Africa) PC Member
- Software Symposium 2013 (SS 2013) (July 7—10, 2013, Gifu, Japan) PC Member
- The 2013 International Conference on Quality, Reliability, Risk, Maintenance, and Safety Enggineering (QR2MSE 2013) (July 15 --18, 2013, Emeishan, China) International Advisory Committee.

- The 2013 International Conference on Materials and Reliability (ICMR 2013) (July 15 --18, 2013, Emeishan, China) International Advisory Committee.
- The 4th International Conference on Maintenance Engineering (ICME 2013) (July 15 --18, 2013, Emeishan, China) International Advisory Committee.
- The 37th Annual International Conference on Computers, Software and Applications (COMPSAC'13) (July 22 --26, 2013, Kyoto, Japan) Track Chair on Reliability, Metrics, and Fault Tolerance
- The FTTRA 9th International Symposium on Wireless Sensor Network Technologies and Applications with Smart Space (WTA 2013) (September 4 --6, 2013, Gwangju, Korea) PC Member
- The 17th Annual International Conference on Industrial Engineering Theory, Applications and Practice (IJIE 2013) (October 6 --9, 2013, Busan, Korea) **PC Chair**, International Advisory Committee.
- The 8th International Conference on Software Engineering Advances (ICSEA 2013) (October 27 --November 1, 2013, Venice, Italy) PC Member
- International Conference on Semantic Web and Information Systems (SWEBIS 2013) (November 7 --9, 2013, Mexico City, Mexico) PC Member
- The 24th International Symposium on Software Reliability Engineering (ISSRE'13) (November 18 --21, 2013, Pasadena, USA) PC Member
- The 5th International Workshop on Software Aging and Rejuvenation (WoSAR 2013) in conjunction with The 24th International Symposium on Software Reliability Engineering (ISSRE'13) (November 18 --21, 2013, Pasadena, USA) Honorary General Chair
- The 3rd International Workshop on Open Systems Dependability (WOSD 2013) in conjunction with The 24th International Symposium on Software Reliability Engineering (ISSRE'13) (November 18 --21, 2013, Pasadena, USA) PC Member
- The 19th IEEE Pacific Rim International Symposium on Dependable Computing (PRDC'13) (December 2 --4, 2013, Vancouver, Canada) PC Member
- The 16th IEEE International Conference on Computational Science and Engineering (CSE 2013) (December 3 --5, 2013, Sydney, Australia) PC Member
- The 2013 International Conference on Information Science and Cloud Computing (ISCC 2013) (December 7 --8, 2013, Guangzhou, China) PC Member
- The second workshop on Software 2013 (Software 2013) (November 16 --13, 2013, Jeju Island, Korea) General Chair

- The 10th International Conference on Autonomic and Trusted Computing (ATC'13) (December 16 --24, 2013, Sorrento Peninsula, Italy) International Advisory Member
- The 15th IEEE International Symposium on High Assurance Systems Engineering (HASE'14) (January 9 --11, 2014, Miami, USA) PC Member
- The 13th IASTED International Conference on Software Engineering (SE 2014) (February 17 --19, 2014, Innsbruck, Austria) International PC Member
- The 3rd International Conference on Operations Research and Enterprize Systems (ICORES 2014) (March 6 --8, 2014, Loire Valley, France) PC Member
- The 29th Annual ACM Symposium on Applied Computing (SAC'14) -- The Software Engineering Track -- (March 24--28, 2014, Gyeongju, Korea) PC Member
- The 10th International Conference on Autonomic and Autonomous Systems (ICAS 2014) (April 20 --24, 2014, Chamonix, France) PC Member
- Software Symposium 2014 (SS 2014) (June 8--11, 2014, Akita, Japan) PC Member
- The Third International Conference on Intelligent Systems and Applications (INTELLI 2014) (June 22 --26, 2014, Seville, Spain) PC Member
- The 44th Annual IEEE/IFIP International Conference on Dependable Systems and Networks (DSN'14) (June 23 -- 26, 2014, Atlanta, USA) PC Member
- The 21st International Conference on Web Services (ICWS 2014) (June 27 --July 2, 2014, Alaska, USA) PC Member
- The 2014 FTRA International Symposium on Ubiquitous Green IT Systems (U-GIT 2014) (July 7 -- 10, 2014, Jeju, Korea) PC Member
- The 8th International Conference on Modelling in Industrial Maintenance and Reliability (MIMAR 2014) (July 13 --15, 2014, Oxford, UK) PC Member
- The 38th IEEE International Computer Software and Applications Conference (COMPSAC 2014) (July 21 --25, 2014, Vasteras, Sweden) 主席 PC Member
- The 2014 International Conference on Quality, Reliability, Risk, Maintenance, and Safety Engineering (QR2MSE 2014) (July 22 --25, 2014, Dalian, China)
General Chair, Special Session Organizer
- The 5th International Conference on Security-enriched Urban Computing and Smart Grid (SUComS 2014) (August 14 --17, 2014, Budapest, Hungary) PC Member
- The 3rd International Conference on Smart Phone, Device and Applications (SPDA 2014) (August 14 --17, 2014, Budapest, Hungary) PC Member

- The 3rd International Conference on Human Computer Interaction (ICHCI 2014) (August 14 --17, 2014, Budapest, Hungary) PC Member
- The 2nd International Conference on Advanced Information and Computer Technology (AICT 2014) (August 14 --17, 2014, Budapest, Hungary) PC Member
- The 6th Asia-Pacific International Symposium on Advanced Reliability and Maintenance Modeling (APARM'14) (August 21--23, 2014, Sapporo, Japan) International Advisory Member
- The FTTRA 10th International Symposium on Wireless Sensor Network Technologies and Applications (WTA 2014) (August 25 -- 27, 2014, Ostrava, Czech Republic) PC Member
- The 9th International Conference on Software Engineering Advances (ICSEA 2014) (October 12 --16, 2014, Nice, France) PC Member
- The 25th International Symposium on Software Reliability Engineering (ISSRE'14) (November 3 --6, 2014, Naples, Italy) PC Member
- The 6th International Workshop on Software Aging and Rejuvenation (WoSAR 2014) in conjunction with The 25th International Symposium on Software Reliability Engineering (ISSRE'14) (November 3 --6, 2014, Naples, Italy) Honorary General Chair
- The 4th International Workshop on Open Systems Dependability (WOSD 2014) in conjunction with The 25th International Symposium on Software Reliability Engineering (ISSRE'14) (November 3 --6, 2014, Naples, Italy) PC Member
- International Workshop on Complex faults and Failures in Large Software Systems (COUFLESS) (November 21, 2014, Hon Kong, China) in conjunction with The 22nd ACM SIGSOFT International Symposium on Foundations of Software Engineering (FSE 2014) (November 16 --22, 2014, Hon Kong, China) PC Member
- The 20th IEEE Pacific Rim International Symposium on Dependable Computing (PRDC'14) (November 18 --21, 2014, Singapore) PC Member
- The 2014 Asia-Pacific Services Computing Conference (APSCC 2014) (December 4 --6, 2014, Fuzhou, China) PC Member
- The 11th International Conference on Autonomic and Trusted Computing (ATC'14) (December 9 --14, 2014, Bali, Indonesia) International Advisory Member
- The 3rd International Conference on Automotive Science and Technology (ASNT 2014) (December 20 --23, 2014, Hainan, China) PC Member

- The 3rd International Conference on Modeling and Simulation (MAS 2014) (December 20 --23, 2014, Hainan, China) PC Member
- The 16th IEEE International Symposium on High Assurance Systems Engineering (HASE 2015) (January 8 --10, 2015, Daytona Beach, USA) PC Member
- The 4th International Conference on Operations Research and Enterprise Systems (ICORES 2015) (January 10 --12, 2015, Lisbon, Portugal) PC Member
- The 30th Annual ACM Symposium on Applied Computing (SAC'15) -- The Software Engineering Track -- (April 13--17, 2015, Salamanca, Spain) PC Member
- The 10th International Conference on Evaluation of Novel Approaches to Software Engineering (ENASE 2015) (April 29--30, 2015, Barcelona, Spain) PC Member
- The 11th International Conference on Autonomic and Autonomous Systems (ICAS 2015) May 24 --29, 2015, Rome, Italy) PC Member
- The 9th International Conference on Mathematical Methods in Reliability (MMR 2015) (June 1--4, 2015, Tokyo, Japan) Organization Committee Member, Publication Chair
- Software Symposium 2015 (SS 2015) (June 14--17, 2015, Wakayama, Japan) PC Member
- The 39th IEEE International Computer Software and Applications Conference (COMPSAC 2015) (July 1 --5, 2015, Taichung, Taiwan) PC Member of HCSC Track
- The 2015 International Conference on Quality, Reliability, Risk, Maintenance, and Safety Engineering (QR2MSE 2015) (July 21 --24, 2015, Beijing, China) International Advisory Member
- The 2015 IEEE International Conference on Software Quality, Reliability, and Security (QRS 2015) (August 3 --5, 2015, Vancouver, Canada) PC Member
- The China-Japan Bilateral Seminar on Object Social Modeling (August 10, 2015, Beijing, China) in conjunction with The 2015 Smart World Congress (SWC 2015) **General Chair**
- The 12th International Conference on Advanced and Trusted Computing (ATC'15) (August 10 --14, 2015, Beijing, China) International Advisory Committee Chair
- The 4th International Conference on Intelligent Systems and Applications (INTELLI 2015) (October 11 --16, 2015, St. Julians, Malta) PC Member

- The 2015 International Symposium on Software Engineering and Applications (SEA 2015) (October 26 --28, 2015, Marina del Rey, USA) PC Member
- The 26th International Symposium on Software Reliability Engineering (ISSRE 2015) (November 2 --5, 2015, Washington DC, USA) PC Member
- The 7th International Workshop on Software Aging and Rejuvenation (WoSAR 2015) in conjunction with The 26th International Symposium on Software Reliability Engineering (ISSRE'15) (November 2 --5, 2015, Washington DC, USA) Honorary General Chair
- The 10th International Conference on Software Engineering Advances (ICSEA 2015) (November 15 --20, 2015, Barcelona, Spain) PC Member
- The IEEE 2nd International Symposium on Dependable Computing and Internet of Things (DCIT 2015) (November 16 --18, 2015, Wuhan, China) Publicity Chair
- The 21st IEEE Pacific Rim International Symposium on Dependable Computing (PRDC'15) (November 18 --20, 2015, Zhangjiajie, China) PC Member
- The 7th International Conference on Information (INFORMATION 2015) (November 25 --28, 2015, Taipei, Taiwan) Organization Committee Member
- The 2015 Asia-Pacific Services Computing Conference (APSCC 2015) (December 7 --9, 2015, Bangkok, Thailand) PC Member
- The 17th International Conference on Quality, Reliability, Infocom Technology and Business Operations (ICQRITBO 2015) (December 28 --30, 2015, Delhi, India) International Advisory Member
- The 17th IEEE International Symposium on High Assurance Systems Engineering (HASE 2016) (January 7 --9, 2016, Orlando, USA) PC Member
- The 5th International Conference on Operations Research and Enterprise Systems (INCORES 2016) (February 23 --25, 2016, Rome, Italy) PC Member
- The 31st ACM Symposium on Applied Computing (SAC 2016)-- The Software Engineering Track -- (April 4 --8, 2016, Pisa, Italy) PC Member
- The 5th International Conference on Computer Science and Technology (April 22 --23, 2016, Shanghai, China) PC Member
- The 11th International Conference on Evaluation of Novel Approaches to Software Engineering (ENASE 2016) (April 29 --30, 2016, Rome, Italy) PC Member
- The 4th International Conference on Computer, Information and Application (CIA 2016) (May 19 --21, 2016, Baguio, Philippines) PC Member

- The 8th International Conference on Advanced Communication and Networking (ACN 2016) (May 19 --21, 2016, Baguio, Philippines) PC Member
- The 5th International Conference on Modeling and Simulation (MAS 2016) (May 19 --21, 2016, Baguio, Philippines) PC Member
- The 40th IEEE International Computer Software and Applications Conference (COMPSAC 2016) (June 10 --14, 2016, Atlanta, USA) PC Member of HCSC Track
- Software Symposium 2016 (SS 2016) (June 5--8, 2016, Yonago, Japan) PC Member
- The 12th International Conference on Autonomic and Autonomous Systems (ICAS 2016) (June 26 --30, 2016, Lisbon, Portugal) PC Member
- The 23rd IEEE International Conference on Web Services (ICWS 2016) (June 27 --July 2, 2016, San Francisco, USA) PC Member
- The 6th International Conference on Circuits, Control, Communication, Electricity, Electronics, Energy, System, Signal and Simulation (CES-CUBE 2016) (June 28—July 1, 2016, Ho Chi Minh City, Vietnam) PC Member
- The 46th Annual IEEE/IFIP International Conference on Dependable Systems and Networks (DSN'16) (June 28 --July 1, 2016, Toulpuse, France) PC Member
- The 5th International Conference on Information Technology and Computer Science (ITCS 2016) (July 5 --8, 2016, Bali, Indonesia) PC Member
- The 5th International Conference on Sensor and Its Applications (SIA 2016) (July 11 --13, 2016, Rochester, Michigan, USA) PC Member
- The 8th International Conference on Modelling in Industrial Maintenance and Reliability (MIMAR 2016) (July 12 --14, 2016, London, UK) PC Member
- The 2016 International Symposium on Performance Evaluation of Computer and Telecommunication Systems (SPECTS 2016) (July 24 --27, 2016, Montreal, Canada) PC Member
- The 9th International Conference on Dependability (DEPEND 2016) (July 24 --28, 2016, Nice, France) PC Member
- The 2016 International Conference on Quality, Reliability, Risk, Maintenance, and Safety Engineering (QR2MSE 2016) (July 25 --28, 2016, Jiuzhaigou, China) **General Chair**
- The 11th World Congress on Engineering Asset Management (WCEAM 2016) (July 25 --28, 2016, Jiuzhaigou, China) **General Chair**

- The 7th International Conference on Security-enriched Urban Computing and Smart Grids (SUCoS 2016) (July 26 --28, 2016, Amsterdam, Netherlands) PC Member
- The 14th IEEE International Conference on Dependable, Autonomic and Secure Computing (DASC 2016) (August 8 --12, 2016, Auckland, New Zealand)

Steering Committee Member

- 2016 International Workshop on Emerging Dependable Computing System Technologies and Applications (EDCSTA 2016), in conjunction with The 14th IEEE International Conference on Dependable, Autonomic and Secure Computing (DASC 2016) (August 8 --12, 2016, Auckland, New Zealand)

General Chair

- The 2016 International Conference on Business Management and Human Resource (BMHR2016) (August 15 --16, 2016, Suzhou, China) PC Member
- The 5th International Conference on Next Generation Computer and Information Technology (NGCIT 2016) (August 19 --20, 2016, Harbin, China) PC Member
- The 5th International Conference on Information Science and Industrial Applications (ISI 2016) (August 19 --20, 2016, Harbin, China) PC Member
- The 11th International Conference on Software Engineering Advances (ICSEA 2016) (August 21 --25, 2016, Rome, Italy) PC Member
- The 5th International Conference on Computer Graphics, Animation and Game (CGAG 2016) (August 25 --26, 2016, Cheonan, Korea) PC Member
- The 5th International Conference on Architecture and Civil Engineering (ACE 2016) (August 25 --26, 2016, Cheonan, Korea) PC Member
- The 3rd International Conference on Trustworthy Systems and Their Applications (TSA 2016) (September 18 --20, 2016, Wuhan, China) PC Member
- The 5th International Conference on Cloud-Computing and Super-Computing (CCSC 2016) (September 28 --30, 2016, Yeosu, Korea) PC Member
- The 5th International Conference on Web Science and Engineering (WSE 2016) (September 28 --30, 2016, Yeosu, Korea) PC Member
- The 5th International Conference on Artificial Intelligence and Application (AIA 2016) (September 28 --30, 2016, Yeosu, Korea) PC Member
- The 18th International Conference on Industrial Engineering (IJIE 2016) (October 10 --12, 2016, Seoul, Korea) PC Member, International Advisory Member
- The 4th International Conference on Computer and Computing Science (COMCOMS2016) (October 21 --22, 2016, Chongqing, China) PC Member

- The 27th International Symposium on Software Reliability Engineering (ISSRE 2016) (October 23 --27, 2016, Ottawa, Canada) **Steering Committee Member**, PC Member
- The 8th International Workshop on Software Aging and Rejuvenation (WoSAR 2016) in conjunction with The 27th International Symposium on Software Reliability Engineering (ISSRE'16) (October 23, 2016, Ottawa, Canada) General Chair
- The 5th International Conference on Intelligent Systems and Applications (INTELLI 2016) (November 13 --17, 2016, Barcelona, Spain) PC Member
- The 2016 International Conference on System Reliability and Science (ICSRS 2016) (November 15 --18, 2016, Paris, France) PC Member
- The 10th International Conference on Asia-Pacific Services Computing (APSCC 2016) (November 16 --18, 2016, Zhangjiajie, China) PC Member
- The 5th International Conference on Electrics, Electronics, and Computer Science (EEC 2016) (November 24 --26, 2016, Jeju, Korea) PC Member

V. PUBLICATION

V-1. Journal Papers (Peer-Reviewed)

1. H. Tanaka, T. Dohi, S. Takagi, N. Kaio and S. Osaki, "A note on temporal variation of the amount of option trading (in Japanese)", *Communications of the Operations Research Society of Japan*, vol. 36, no. 2, pp. 90--95, 1991.
2. T. Dohi, N. Kaio and S. Osaki, "Optimal control of production management systems with diffusion demand (in Japanese)", *Transactions of the Institute of Systems, Control and Information Engineering (ISCIE)*, vol. 4, no. 7, pp. 286--293, 1991.
3. T. Dohi and S. Osaki, "Optimal trading of stock options under alternative strategy", *Computers & Mathematics with Applications*, vol. 24, no. 1/2, pp. 127--134, 1992.
4. H. Tanaka, T. Dohi, H. Fujiwara, N. Kaio and S. Osaki, "Construction of a decision support system for a combination of options", *Computers & Mathematics with Applications*, vol. 24, no. 1/2, pp. 135--140, 1992.
5. T. Dohi, N. Kaio and S. Osaki, "A note on optimal inventory policies taking account of time value", *Revue Francaise d'Automatique, Informatique et Recherche Operationnelle (Recherche operationnelle/Operations Research)*, vol. 26, no. 1, pp. 1--14, 1992.
6. N. Kaio, T. Dohi and S. Osaki, "Optimal maintenance policies with lead times and repair", *International Journal of Systems Science*, vol. 23, no. 8, pp. 1299--1308, 1992.

7. T. Dohi, N. Kaio and S. Osaki, "Continuous time inventory control for Wiener process demand", *Computers & Mathematics with Applications*, vol. 26, no. 9, pp. 11--22, 1993.
8. T. Dohi and S. Osaki, "A note on portfolio optimization with path-dependent utility", *Annals of Operations Research*, vol. 45, no. 1/4, pp. 77--90, 1993.
9. T. Dohi, T. Shibuya and S. Osaki, "A comparative study on the stochastic EOQ models with discounting", *IMA Journal of Mathematics Applied in Business and Industry*, vol. 5, no. 2, pp. 171--179, 1993.
10. N. Kaio, T. Dohi and S. Osaki, "Inspection policy with failure due to inspection", *Microelectronics and Reliability*, vol. 34, no. 4, pp. 599--602, 1994.
11. T. Dohi, A. Watanabe and S. Osaki, "A note on risk averse newsboy problem", *Revue Francaise d'Automatique, Informatique et Recherche Operationnelle (Recherche operationnelle/Operations Research)*, vol. 28, no. 2, pp. 181--202, 1994.
12. T. Dohi, N. Kaio and S. Osaki, "Optimal order limit policy under cost effectiveness criterion", *Computers & Industrial Engineering*, vol. 27, no. 1/4, pp. 197--200, 1994.
13. T. Dohi and S. Osaki, "Optimal inventory policies under product obsolescent circumstance", *Computers & Mathematics with Applications*, vol. 29, no. 3, pp. 23--30, 1994.
14. T. Dohi, E. Kitaoka and S. Osaki, "Alternative optimality criteria of portfolio selection based upon threshold stopping rule", *Applied Stochastic Models and Data Analysis*, vol. 10, no. 4, pp. 257--268, 1994.
15. T. Dohi, N. Kaio and S. Osaki, "Solution procedure for a repair limit problem using TTT-transform", *IMA Journal of Mathematics Applied in Business and Industry*, vol. 6, no. 1, pp. 101--111, 1995.
16. T. Dohi, N. Kaio and S. Osaki, "Optimal production planning under diffusion demand pattern", *Mathematical and Computer Modelling*, vol. 21, no. 11, pp. 35--46, 1995.
17. T. Dohi, H. Tanaka, N. Kaio and S. Osaki, "Alternative growth versus security in continuous dynamic trading", *European Journal of Operational Research*, vol. 84, no. 2, pp. 430--443, 1995.
18. T. Dohi, N. Kaio and S. Osaki, "Continuous review cyclic inventory models with emergency order", *Journal of the Operations Research Society of Japan*, vol. 38, no. 2, pp. 212--229, 1995.
19. T. Dohi, N. Kaio and S. Osaki, "Optimizing monitoring time in a continuous-review cyclic inventory system", *IMA Journal of Mathematics Applied in Business and Industry*, vol. 6, no. 2, pp. 223--237, 1995.

20. T. Dohi, N. Kaio and S. Osaki, "Nonparametric approach to power-saving strategies for a portable personal computer (in Japanese)", *The Transactions of the Institute of Electronics, Information and Communication Engineering (IEICE) (A)*, vol. J78-A, no. 9, pp. 1157--1165, 1995 [translated to *Electronics and Communications in Japan, Part 3*, vol. 80, no. 1, pp. 80--90, 1997].
21. T. Dohi, N. Kaio and S. Osaki, "Optimal control of a finite dam with sample path constraint", *Mathematical and Computer Modelling*, vol. 22, nos. 10/12, pp. 45--51, 1995.
22. M. Odagiri, T. Dohi, N. Kaio and S. Osaki, "On the effect of system failures for optimal checkpointing policies (in Japanese)", *Transactions of the Institute of Systems, Control and Information Engineering (ISCIE)*, vol. 9, no. 2, pp. 41--50, 1996.
23. M. Odagiri, T. Dohi, N. Kaio and S. Osaki, "An economical analysis for a hybrid data backup system", *IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences (A)*, vol. E79-A, no. 1, pp. 118--125, 1996.
24. T. Dohi, N. Kaio and S. Osaki, "Optimal ordering policies with time dependent delay structure", *Journal of Quality in Maintenance Engineering*, vol. 2, no. 1, pp. 50--62, 1996.
25. H. Koshimae, T. Dohi, N. Kaio and S. Osaki, "Graphical/statistical approach to repair limit replacement problem", *Journal of the Operations Research Society of Japan*, vol. 39, no. 2, pp. 230--246, 1996.
26. T. Dohi, N. Kaio and S. Osaki, "A statistical approach for maintenance problems with minimal repair (in Japanese)", *The Journal of Reliability Engineering Association of Japan (REAJ)*, vol. 18, no. 4, pp. 11--14, 1996.
27. T. Dohi, N. Kaio and S. Osaki, "Optimal planned maintenance with salvage cost for a two-unit standby redundant system", *Microelectronics and Reliability*, vol. 36, no. 10, pp. 1581--1588, 1996.
28. N. Matsushima, T. Dohi and S. Osaki, "Petri net analyses of repair limit problems for redundant computer systems (in Japanese)", *Transactions of Information Processing Society of Japan*, vol. 37, no. 12, pp. 2457--2465, 1996.
29. T. Dohi, N. Matsushima, N. Kaio and S. Osaki, "Nonparametric repair limit replacement policies with imperfect repair", *European Journal of Operational Research*, vol. 96, no. 2, pp. 260--273, 1996.
30. T. Dohi, N. Kaio and S. Osaki, "Generalized methods on optimal 1/N backup procedure of data floppy disk (in Japanese)", *The Transactions of the Institute of Electronics, Information and Communication Engineering (IEICE) (A)*, vol. J80-A, no. 1, pp. 213--220, 1997.

31. T. Dohi, T. Aoki, N. Kaio and S. Osaki, "Computational aspects of optimal checkpoint strategy in fault-tolerant database management", *IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences (A)*, vol. E80-A, no. 10, pp. 2006--2015, 1997.
32. S. Nakano, A. Murata, T. Dohi and S. Osaki, "Evaluation of factors affecting the pointing operation by physically disabled persons (in Japanese)", *The Transactions of the Institute of Electronics, Information and Communication Engineering (IEICE) (D-II)*, vol. J80-D-II, no. 10, pp. 2860--2863, 1997.
33. Y. Shinohara, T. Dohi and S. Osaki, "Predictive evaluation for software testing progress via GMDH networks", *The Transactions of the Institute of Electronics, Information and Communication Engineering (IEICE) (A)*, vol. J80-A, no. 11, pp. 1982--1988, 1997 [translated to *Electronics and Communications in Japan, Part 3*, vol. 82, no. 5, pp. 22--28, 1999].
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3. R. Sato, Y. Fujimoto and T. Dohi (eds.), *Proceedings of International Seminar on Durability and Lifecycle Evaluation of Concrete Structures 2004*, Structural Safety and Reliability Project Research Center of Hiroshima University, Japan, 2004 (ISBN: 4-902813-04-9).
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26. T. Dohi, "Stochastic processes (II): renewal process (in Japanese)", *Reliability Handbook: New Edition*, Part IV, Chapter 3 Fundamental Theory of Reliability, pp. 487--489, JUSE Press, Ltd., Tokyo, 2014.
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VI. RESEARCH GRANT / PROJECT

- 1993: JSPS KAKENHI, Grant-in-Aid for Encouragement of Scientists (A), Grant Number 05780334, Principal Investigator (Tadashi Dohi), 900,000 JPY, ``A study on approximation procedures in stable portfolio analysis``
- 1995-1997: JSPS KAKENHI, Grant-in-Aid for Scientific Research (B), Grant Number 07558050, Principal investigator (Shunji Osaki), 3,200,000 JPY, ``A fundamental study on information and communication control techniques for physically disabled subjects``
- 1996: JSPS KAKENHI, Grant-in-Aid for Encouragement of Scientists (A), Grant Number 08780427, Principal investigator (Tadashi Dohi), 900,000 JPY, ``A software implementation technique for power saving scheduling in large scale computer systems``
- 1997-1998: JSPS KAKENHI, Grant-in-Aid for Encouragement of Scientists (A), Grant Number 09780411, Principal investigator (Tadashi Dohi), 1,100,000 JPY, ``A study on effective generation of the preventive maintenance schedule for autonomous decentralized systems``

- 1997: JSPS KAKENHI, Grant-in-Aid for Scientific Research (C), Grant Number 09898007, Principal investigator (Shunji Osaki), 1,600,000 JPY, ``A comprehensive study on the next generation reliability technologies for large scale computer systems''
- 1998-2000: JSPS KAKENHI, Grant-in-Aid for Scientific Research (B), Grant Number 10480084, Principal investigator (Toshikazu Kimura), 6,000,000 JPY, ``Exploring performance evaluation models for highly reliable computer/communication systems''
- 1998-2000: JSPS KAKENHI, Grant-in-Aid for Scientific Research (B), Grant Number 1055805, Principal investigator (Shunji Osaki), 5,500,000 JPY, ``A study on practical application of next-generation reliability assessment technologies for large-scale computer systems''
- 1999-2000: JSPS KAKENHI, Grant-in-Aid for Encouragement of Scientists (A), Grant Number 11780331, Principal investigator (Tadashi Dohi), 1,400,000 JPY, ``A study on the theoretical unification of software reliability assessment techniques''
- 2001-2003: JSPS KAKENHI, Grant-in-Aid for Scientific Research (B), Grant Number 134801091, Principal investigator (Toshikazu Kimura), 7,500,000 JPY, ``Studies on evaluation technologies for highly reliable computer/communication systems''
- 2001-2002: JSPS KAKENHI, Grant-in-Aid for Encouragement of Young Scientists (B), Grant Number 13780367, Principal investigator (Tadashi Dohi), 1,700,000 JPY, ``A theoretical study on the preventive maintenance of real-time software systems''
- 2002-2003: JSPS KAKENHI, Grant-in-Aid for Scientific Research (C), Grant Number 14580494, Principal investigator (Shunji Osaki), 3,500,000 JPY, ``Research on the analysis and its utilization of evaluating fixed-assets for housing by the mathematical model''
- 2003-2005: JSPS KAKENHI, Grant-in-Aid for Exploratory Research, Grant Number 15651076, Principal investigator (Tadashi Dohi), 3,900,000 JPY, ``Development and performance evaluation of security models for anti-computer virus''
- 2004-2006: JSPS KAKENHI, Grant-in-Aid for Scientific Research (B), Grant Number 16310116, Principal investigator (Tadashi Dohi), 8,100,000 JPY, ``Development and implementation of on-line preventive maintenance techniques to realize highly reliable information communication systems''

- 2004-2005: JSPS KAKENHI, Grant-in-Aid for Scientific Research (C), Grant Number 16510128, Principal investigator (Shunji Osaki), 3,200,000 JPY, ``Research on statistical analysis of evaluating fixed-assets for housing and its application''
- 2006-2008: JSPS KAKENHI, Grant-in-Aid for Scientific Research (C), Grant Number 18510138, Principal investigator (Shunji Osaki), 4,160,000 JPY, ``A study on optimal design and evaluation for software e-maintenance''
- 2007-2008: JSPS KAKENHI, Grant-in-Aid for Scientific Research (C), Grant Number 19510148, Principal investigator (Tadashi Dohi), 4,420,000 JPY, ``A development on autonomous reliability assessment technologies based on software cybernetics''
- 2008: Mitsubishi Research Insstitute, Inc. Consigned Research Fund on Industry Technology R&D by METI, Principal investigator (Tadashi Dohi), 2,730,000 JPY, ``Research on building software reliability models"
- 2009: Toyota Info Technology Center Co., Ltd. Principal investigator (Tadashi Dohi), 4,000,000 JPY, ``Research on software reliability assessment method based on architecture"
- 2009-2011: JSPS KAKENHI, Grant-in-Aid for Scientific Research (C), Grant Number 21510167, Principal investigator (Shunji Osaki), 4,680,000 JPY, ``Software reliability evaluation under quasi-random testing''
- 2010: Toyota Info Technology Center Co., Ltd. Principal investigator (Tadashi Dohi), 3,000,000 JPY, ``Research on software reliability assessment method with architecture description"
- 2011-2012: Japan Science and Technology Agency (JST), Adaptive and Seamless Technology Transfer Program Through Target Driven R&D (A-Step), Principal investigator (Tadashi Dohi), 5,574,000 JPY, Grant Number: AS2311284A, ``Practicality verification of power consumption assessment model to support green computing"
- 2011-2013: JSPS KAKENHI, Grant-in-Aid for Scientific Research (C), Grant Number 23510171, Principal investigator (Tadashi Dohi), 5,590,000 JPY, ``A study on development and implementation of shrinkage estimation algorithms for dynamic systems''
- 2012: Brother Industries, Ltd. Principal investigator (Hiroyuki Okamura), 500,000 JPY, ``Investigative report on analysis of software reliability growth models and test data"

- 2013: Information-Technology Promotion Agency (IPA) - Software Reliability Enhancement Center (SEC), Research Initiative on Advanced Software Engineering (RISE) Project, Principal investigator (Tadashi Dohi), 8,572,410 JPY, ``Development and implementation of the next-generation software reliability assessment technology"
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- 2015-2017: JSPS KAKENHI, Grant-in-Aid for Scientific Research (C), Grant Number 15K01192, Principal investigator (Tadashi Dohi), 4,680,000 JPY, ``Big data analysis platform for software reliability assessment''