

Short CV (Hisao Ishibuchi)

Prof. Hisao Ishibuchi was born in Kumamoto, Japan on February 7, 1963. After completing his MS studies on Precision Mechanics in Kyoto University in 1987, he had been with Osaka Prefecture University for 30 years. Currently he is a Chair Professor at the Department of Computer Science and Engineering, Southern University of Science and Technology, Shenzhen, China. His research interests include evolutionary multiobjective optimization, fuzzy rule-based systems and evolutionary games. He received a Best Paper Award from GECCO 2004, HIS-NCEI 2006, FUZZ-IEEE 2009, WAC 2010, SCIS & ISIS 2010, FUZZ-IEEE 2011, ACIIDS 2015, GECCO 2017, GECCO 2018, EMO 2019, GECCO 2020, GECCO 2021 and GECCO 2024. He also received 2007 JSPS Prize, 2019 IEEE CIS Fuzzy Systems Pioneer Award, 2020 IEEE Transactions on Evolutionary Computation Outstanding Paper Award, and 2023 IEEE CIS Enrique Ruspini Award for Meritorious Service. He was the IEEE CIS Vice-President for Technical Activities (2010-2013) and an IEEE CIS Distinguished Lecturer (2015-2017, 2021-2023). He has been a Chair or Co-Chair of a number of conferences such as Program Chair of IEEE CEC 2010, General Chair of ICMLA 2011, Program Co-Chair of FUZZ-IEEE 2011-2013, Technical Co-Chair of IEEE CEC 2013, Program Co-Chair of IEEE CEC 2014, Program Chair of IES 2014, Publicity Co-Chair of IEEE SSCI 2014, Technical Co-Chair of SEAL 2014, Special Sessions Chair of IEEE CEC 2015 and IFSA 2015, Program Co-Chair of FUZZ-IEEE 2015, Technical Chair of IEEE CEC 2018, General Chair of IEEE CIFEer 2019, Technical Co-Chair of IEEE CEC 2019-2021, General Chair of EMO 2021, Program Chair of IEEE SSCI 2022, Technical Co-Chair of IEEE CEC 2023, and General Chair of IEEE WCCI 2024. He was the Editor-in-Chief of IEEE Computational Intelligence Magazine (2014-2019) and Journal of Japanese Society for Evolutionary Computation (2014-2020), and an IEEE CIS AdCom member (2014-2019). He is an Associate Editor of IEEE Trans. on Evolutionary Computation, Evolutionary Computation Journal, and ACM Computing Surveys. He is an IEEE Fellow (2014), and an IEEE CIS AdCom member (2021-2026).

Highlights

JSPS Prize Recipient List (2007) https://www.jsps.go.jp/english/e-jsps-prize/data/awards/4th_JSpsprize_list_en.pdf

JSPS Prize <https://www.jsps.go.jp/english/e-jsps-prize/index.html>

IEEE Fellow - Class of 2014 <https://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=6786437>

IEEE CIS Fuzzy Systems Pioneer Award (2019) <https://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=8610088>

Google Scholar (38,428 Citations, h-Index 93) <https://scholar.google.com/citations?user=vx9EZN4AAAAJ&hl=en>

Top Computer Science Scientists in China: Rank 67th in China: <https://research.com/scientists-rankings/computer-science/cn>

Publication Lists

Google Scholar (38,428 Citations, h-Index 93) <https://scholar.google.com/citations?user=vx9EZN4AAAAJ&hl=en>

ORCID: <https://orcid.org/0000-0001-9186-6472>

Scopus Research ID (24,114 Citations, h-index 76): <https://www.scopus.com/authid/detail.uri?authorId=7005630377>

Web of Science Researcher ID (18,339 Citations, h-index 68): <https://publons.com/researcher/2868852/hisao-ishibuchi/>

Complete Version of English CV (Hisao Ishibuchi)

Contact Information

Hisao Ishibuchi
Chair Professor
Department of Computer Science and Engineering
Southern University of Science and Technology
Shenzhen, Guangdong, China
hisao@sustech.edu.cn

Education

1985 BS (Kyoto University) Precision Mechanics, March 1985
1987 MS (Kyoto University) Precision Mechanics, March 1987
1992 Ph. D (Osaka Prefecture University) Industrial Engineering, November 1992

Working Experiences

1987 Research Assistant (Osaka Prefecture University) April 1987 - April 1993
1993 Assistant Professor (Osaka Prefecture University) May 1993 - December 1993
1994 Associate Professor (Osaka Prefecture University) January 1994 - March 1999
1999 Professor (Osaka Prefecture University) April 1999 - April 2017
2017 Chair Professor (Southern University of Science and Technology) April 2017 -

Visiting Research

1994 Visiting Researcher (Toronto University) Prof. I. B. Turksen's Lab. August 1994 - March 1995
1997 Visiting Researcher (Toronto University) Prof. I. B. Turksen's Lab. July 1997 - March 1998

Awards

1997 JIMA (Japan Industrial Management Association) Young Researcher Award (Japan, Domestic Society)
2004 SOFT (Japan Society for Fuzzy Theory and Intelligent Informatics) Contribution Award (Japan, Domestic Society)
2004 GECCO 2004 Best Paper Award (USA, International Conference)
2005 ISIS 2005 Outstanding Paper Award (Korea, International Conference)
2006 SOFT (Japan Society for Fuzzy Theory and Intelligent Informatics) Outstanding Book Award (Japan, Domestic Society)
2006 HIS-NCEI 2006 Best Paper Award (New Zealand, International Conference)
2007 GECCO 2007 Competition First Prize (UK, International Conference)
2007 JSPS Prize (Japan, Japanese Funding Agency)
2009 FUZZ-IEEE 2009 Best Paper Award (Korea, International Conference)
2009 IEEE Trans. on Fuzzy Systems Outstanding Associate Editor 2008 (USA, IEEE CIS)
2010 WAC 2010 Best Paper Award (Japan, International Conference)
2010 SCIS & ISIS 2010 Best Paper Award (Japan, International Conference)
2011 ISCI (Institute of Systems, Control and Information) Best Paper Award (Japan, Domestic Society)
2011 FUZZ-IEEE 2011 Best Paper award (Taiwan, International Conference)
2011 SOFT (Japan Society for Fuzzy Theory and Intelligent Informatics) Contribution Award (Japan, Domestic Society)

Society)

- 2013 ISIS 2013 Best Session Paper Award (Korea, International Conference)
- 2014 IEEE Fellow
- 2014 IEEE Trans. on Cybernetics Outstanding reviewer
- 2015 IEEE CIS Distinguished Lecturer (USA, IEEE CIS)
- 2015 ACIIDS 2015 Best Regular Paper Award (Indonesia, International Conference)
- 2015 TAAI 2015 Merit Paper Award (Tainan, Taiwan, International Conference)
- 2017 GECCO 2017 Best Paper Award (Germany, International Conference)
- 2018 GECCO 2018 Best Paper Award (Japan, International Conference)
- 2019 IEEE Transactions on Evolutionary Computation 2018 Outstanding Associate Editor (Awarded in 2019)
- 2019 IEEE CIS Fuzzy Systems Pioneer Award (USA, IEEE CIS)
- 2019 EMO 2019 Best Paper Award (East Lansing, USA, International Conference)
- 2019 IEEE CEC 2019 First Runner-Up Conference Paper Award (Wellington, New Zealand, International Conference)
- 2019 IEEE CEC 2019 Competition Winner (Wellington, New Zealand, International Conference)
- 2019 FUZZ-IEEE 2019 Competition Winner (New Orleans, USA, International Conference)
- 2020 IEEE Transactions on Evolutionary Computation 2019 Outstanding Associate Editor (Awarded in 2020)
- 2020 IEEE Transactions on Evolutionary Computation Outstanding Paper Award (USA, IEEE CIS) (H. Ishibuchi, Y. Setoguchi, H. Masuda, and Y. Nojima, "Performance of decomposition-based many-objective algorithms strongly depends on Pareto front shapes," IEEE Trans. on Evolutionary Computation, vol. 21, no.2, pp. 169-190, April 2017)
- 2020 GECCO 2020 Best Paper Award (Cancun, Mexico, International Conference)
- 2020 IEEE CEC 2020 Best Student Paper Award
- 2020 FUZZ-IEEE 2020 Best Student Paper Award
- 2021 IEEE Transactions on Evolutionary Computation 2020 Outstanding Associate Editor (Awarded in 2021)
- 2021 IEEE CIS Distinguished Lecturer (USA, IEEE CIS)
- 2021 GECCO 2021 Best Paper Award (Lille, France, International Conference)
- 2021 ISIS 2021 Best Presentation Award (Cheongju, Korea, International Conference)
- 2022 IEEE Transactions on Evolutionary Computation 2021 Outstanding Associate Editor (Awarded in 2022)
- 2023 IEEE CIS Enrique Ruspini Award for Meritorious Service (USA, IEEE CIS)
- 2024 GECCO 2024 Best Paper Award (Melbourne, Australia, International Conference)

Keynote/Plenary/Invited/Tutorial Talks at International Conferences

- [1] H. Ishibuchi, "Evolutionary multiobjective optimization for fuzzy knowledge extraction," *8th International Symposium on Advanced Intelligent Systems*, Sokcho, Korea, September 5-8, 2007. **(Invited Talk)**
- [2] H. Ishibuchi, "Hot issues in evolutionary multiobjective optimization," *2007 IEEE Congress on Evolutionary Computation (IEEE CEC 2007)*, Singapore, September 25-28, 2007. **(Invited Talk)**
- [3] H. Ishibuchi, "Evolutionary multiobjective optimization and multiobjective fuzzy system design," *5th International Conference on Soft Computing as Transdisciplinary Science and Technology*, Cergy-Pontoise, France, October 28-31, 2008. **(Keynote Talk)**
- [4] H. Ishibuchi, "Evolutionary multiobjective optimization and fuzzy system design," *22nd International Conference on Industrial, Engineering & Other Applications of Applied Intelligent Systems (IEA-AIE 2009)*, Tainan, Taiwan, June 24-27, 2009. **(Keynote Talk)**
- [5] H. Ishibuchi and R. Alcalá, "Evolutionary multiobjective optimization and fuzzy system design," *2009 IEEE*

International Conference on Fuzzy Systems (FUZZ-IEEE 2009), Jeju Island, Korea, August 20-24, 2009. (Tutorial Talk)

- [6] H. Ishibuchi, "Multiobjective genetic fuzzy systems - Accurate and interpretable fuzzy rule-based classifier design," *9th International Conference on Intelligent Systems Design and Applications*, Pisa, Italy, November 30-December 2, 2009. (Invited Talk)
- [7] H. Ishibuchi, "Memetic algorithms for evolutionary multiobjective combinatorial optimization," *40th International Conference on Computers and Industrial Engineering (CIE 40)*, Awajishima, Japan, July 25-28, 2010. (Plenary Talk)
- [8] H. Ishibuchi, "Recent trends in evolutionary multiobjective optimization research," *14th Asia Pacific Symposium on Intelligent and Evolutionary Systems*, Miyajima, Japan, November 19-20, 2010. (Keynote Talk)
- [9] H. Ishibuchi, "Fuzzy rule-based classifier design: From heuristic rule extraction to multi-objective optimization," *7th Bi-Annual Statistics Congress of Turkish Statistical Association*, Antalya, Turkey, April 28 - May 1, 2011. (Invited Talk)
- [10] H. Ishibuchi, "Fuzzy rule-based classifier design as understandable decision making systems," *4th International Conference on Intelligent Human-Machine Systems and Cybernetics*, Nanchang, China, August 26-27, 2012. (Keynote Talk)
- [11] H. Ishibuchi, "Hot issues in evolutionary many-objective optimization," *6th International Conference on Genetic and Evolutionary Computing*, Kitakyushu, Japan, August 25-28, 2012. (Keynote Talk)
- [12] H. Ishibuchi, "Fuzzy rule-based classifier design," *2012 Conference on Technologies and Applications of Artificial Intelligence*, Tainan, Taiwan, November 16-18, 2012. (Keynote Talk)
- [13] H. Ishibuchi, "Evolutionary multiobjective optimization and fuzzy rule-based classifier design," *9th International Conference on Simulated Evolution and Learning (SEAL 2012)*, Hanoi, Vietnam, December 16-19, 2012. (Tutorial Talk)
- [14] H. Ishibuchi, "Fuzzy genetics-based machine learning," *9th International Conference on Simulated Evolution and Learning (SEAL 2012)*, Hanoi, Vietnam, December 16-19, 2012. (Keynote Talk)
- [15] H. Ishibuchi, "Parallel distributed fuzzy genetics-based machine learning," *3rd International Conference on Swarm, Evolutionary and Memetic Computing Conference (SEMCCO 2012) & Fuzzy and Neural Computing Conference (FANCCO 2012)*, Bhubaneswar, India, December 20-22, 2012. (Keynote Talk)
- [16] H. Ishibuchi, "Evolutionary computation for single-objective, multi-objective and many-objective optimization," *IEEE Workshop on Computational Intelligence: Theories, Applications and Future Directions*, Indian Institute of Technology Kanpur, India, July 14, 2013. (Keynote Talk)
- [17] H. Ishibuchi, "Fuzzy rule-based classifier design: Accuracy maximization and complexity minimization," *17th International Conference on Knowledge-Based and Intelligent Information & Engineering Systems (KES 2013)*, Kitakyushu, Japan, September 9-11, 2013. (Keynote Talk)
- [18] H. Ishibuchi, "Multi-objective evolutionary fuzzy rule-based classifier design," *International Conference on Artificial Intelligence and Soft Computing*, Zakopane, Poland, June 1-5, 2014. (Invited Talk)
- [19] H. Ishibuchi, "Research topics in evolutionary many-objective optimization," *18th Asia Pacific Symposium on Intelligent and Evolutionary Systems*, Singapore, November 10-12, 2014. (Plenary Talk)
- [20] H. Ishibuchi, "Evolutionary many-objective optimization," *4th International Conference on Frontiers in Intelligent Computing: Theory and Applications*, Durgapur, India, November 16-18, 2015. (Keynote Talk)
- [21] H. Ishibuchi, "Parallel distributed fuzzy system design," *2015 IEEE International Conference on Research in Computational Intelligence and Communication Networks*, Kolkata, India, November 20-22, 2015. (Keynote Talk)

- [22] H. Ishibuchi, "Evolutionary many-objective optimization: Difficulties and future research directions," *Applied Informatics and Technology Innovation Conference (AITIC)*, Newcastle, Australia, November 22-24, 2016. (Invited Talk)
- [23] H. Ishibuchi, "Evolutionary Many-Objective Optimization and Performance Evaluation," *11th International Conference on Simulated Evolution and Learning (SEAL 2017)*, Shenzhen, China, Nov. 10-13, 2017. (Keynote)
- [24] H. Ishibuchi, "Evolutionary Multi-Objective Optimization and Performance Analysis," *1st International Conference on Soft Computing in Data Analytics*, Vishakhapatnam, Andhra Pradesh, India, March 10-11, 2018. (Invited Talk)
- [25] H. Ishibuchi, "Evolutionary Many-Objective Optimization: Difficulties and Future Research Directions," *10th International Conference on Advanced Computational Intelligence*, Xiamen, China, March 29-31, 2018. (Tutorial Talk)
- [26] H. Ishibuchi and H. Sato, "Evolutionary Many-Objective Optimization," *2018 IEEE Congress on Evolutionary Computation (IEEE CEC 2018)*, Rio de Janeiro, Brazil, July 8-13, 2018. (Tutorial Talk)
- [27] H. Ishibuchi, "Fair Performance Comparison of Evolutionary Multi-objective and Many-Objective Optimization Algorithms," *International Conference on Computational Intelligence, Communications, and Business Analytics*, Kalyani, West Bengal, India, July 27-28, 2018. (Keynote Talk)
- [28] H. Ishibuchi, "Difficulties in performance comparison of evolutionary multi-objective and many-objective optimization algorithm," *2nd International Symposium on New Trends in Computational Intelligence*, Qingdao, China, Oct. 19-20, 2018. (Invited Talk)
- [29] H. Ishibuchi, "Difficulties in performance comparison of evolutionary multi-objective and many-objective optimization algorithms," *2nd International Conference on Advanced Computational and Communication Paradigms*, Sikkim, India, Feb. 25-28, 2019. (Keynote Talk)
- [30] H. Ishibuchi, "Evolutionary many-objective optimization," *10th International Conference on Evolutionary Multi-Criterion Optimization (EMO 2019)*, East Lansing, USA, March 10-13, 2019. (Tutorial Talk)
- [31] H. Ishibuchi and H. Sato, "Evolutionary many-objective optimization," *2019 IEEE Congress on Evolutionary Computation (IEEE CEC 2019)*, Wellington, New Zealand, June 10-13, 2019. (Tutorial Talk)
- [32] H. Ishibuchi, "Research trends in evolutionary multi-objective optimization: Past, present and future," *2019 IEEE Congress on Evolutionary Computation (IEEE CEC 2019)*, Wellington, New Zealand, June 10-13, 2019. (Plenary Talk)
- [33] H. Ishibuchi, "Fuzzy rule-based classifier design: Accuracy, interpretability and explanation ability," *2019 IEEE International Conference on Fuzzy Systems (FUZZ-IEEE 2019)*, New Orleans, USA, June 23-16, 2019. (Plenary Talk)
- [34] H. Ishibuchi and H. Sato, "Evolutionary many-objective optimization," *2019 Genetic and Evolutionary Computation Conference (GECCO 2019)*, Prague, Czech Republic, July 13-17, 2019. (Tutorial Talk)
- [35] H. Ishibuchi and H. Sato, "Evolutionary many-objective optimization," *2020 Genetic and Evolutionary Computation Conference (GECCO 2020)*, Cancun, Mexico, July 08-12, 2020. (Tutorial Talk)
- [36] H. Ishibuchi and H. Sato, "Evolutionary many-objective optimization," *2020 IEEE Congress on Evolutionary Computation (IEEE CEC 2020)*, Glasgow, UK, July 19-24, 2020. (Tutorial Talk)
- [37] H. Ishibuchi and H. Sato, "Evolutionary many-objective optimization," *2021 IEEE Congress on Evolutionary Computation (IEEE CEC 2021)*, Kraków, Poland, June 28 - July 1, 2021. (Tutorial Talk)
- [38] H. Ishibuchi, "Introduction to evolutionary multi-objective optimization," IEEE CIS Distinguished Lecturer Program, April 25, 2022, IEEE CIS Malaysia Chapter. (IEEE-CIS Distinguished Lecturer Talk)
- [39] H. Ishibuchi, "Fair performance comparison of evolutionary multi-objective optimization algorithms,"

APNNS/IEEE-CIS Education Forum Series: Deep Learning and Artificial Intelligence Summer School 2022 (DLAI6), June 14-18, 2022, Online (ICT time). ([IEEE-CIS Distinguished Lecturer Talk](#))

- [40] H. Ishibuchi, P. L. Meng and K. Shang, “How to compare evolutionary multi-objective optimization algorithms: Parameter specifications, indicators and test problems,” *2022 IEEE Congress on Evolutionary Computation* (IEEE CEC 2022), Padua, Italy, July 18-23, 2022. ([Tutorial Talk](#))
- [41] H. Ishibuchi and H. Sato, “Evolutionary many-objective optimization,” *2022 IEEE Congress on Evolutionary Computation* (IEEE CEC 2022), Padua, Italy, July 18-23, 2022. ([Tutorial Talk](#))
- [42] H. Ishibuchi, P. L. Meng and K. Shang, “Difficulties in fair performance comparison of multiobjective evolutionary algorithms,” *2022 Genetic and Evolutionary Computation Conference* (GECCO 2022), Boston, USA, July 9-13, 2022. ([Tutorial Talk](#))
- [43] H. Ishibuchi, “Evolutionary multi-objective optimization and fair performance comparison,” *5th International Conference on Intelligent Autonomous Systems*, Dalian, China, September 23-25, 2022. ([Keynote Speech](#))
- [44] H. Ishibuchi, “Evolutionary Multi-Objective Optimization: Basic Ideas and Recent Research Topics”, *13th International Conference CONFLUENCE*, Amity University, Noida, New Delhi, India, January 19-20, 2023. ([Keynote Speech](#))
- [45] H. Ishibuchi, “Difficulties in Fair Performance Comparison of Multi-Objective Evolutionary Algorithms,” *Fifth International Conference on Computational Intelligence in Communications and Business Analytics* (CICBA 2023), Kalyani Government Engineering College, West Bengal, India, January 27-28, 2023. ([Keynote Speech](#)).
- [46] H. Ishibuchi, “Hot Topics in Evolutionary Multi-Objective Optimization,” *IEEE CIS Pune Chapter Online Meeting*, Pune, India, April 8, 2023. ([IEEE CIS Distinguished Lecture](#)).
- [47] P. L. Meng, H. Ishibuchi, and K. Shang, “How to compare evolutionary multi-objective optimization algorithms: Parameter specifications, indicators and test problems,” *2023 IEEE Congress on Evolutionary Computation* (IEEE CEC 2023), Chicago, USA, July 1-5, 2023. ([Tutorial Talk](#))
- [48] H. Ishibuchi, “New Algorithm Frameworks of Multi-Objective Evolutionary Algorithms,” *2023 IEEE CIS Summer School on Computational Intelligence*, Zhengzhou, China, July 22-25, 2023. ([Keynote Speech](#))
- [49] H. Ishibuchi, “Fair Performance Comparison of Evolutionary Multi-Objective Optimization Algorithms,” RMIT University, Melbourne, Australia, October 30, 2023. ([IEEE CIS Distinguished Lecture](#)).
- [50] K. Shang and H. Ishibuchi, “Hypervolume Approximation for Many-objective Optimization and Learning,” *30th International Conference on Neural Information Processing* (ICONIP 2023), Changsha, China, November 20-23, 2023. ([Tutorial Talk](#))
- [51] H. Ishibuchi, “Difficulties in Fair Performance Comparison of Evolutionary Multi-Objective Algorithms,” *2024 International Seminar on Theoretical Computer Science*, Kunming, China, January 4-7, 2024. ([Keynote Speech](#))
- [52] H. Ishibuchi, “New Research Directions in Evolutionary Multi-Objective Optimization”, *14th International Conference CONFLUENCE*, Amity University, Noida, New Delhi, India, January 18-19, 2024. ([Keynote Address](#))
- [53] L. M. Pang, K. Shang and H. Ishibuchi, “Fair Performance Comparison of Evolutionary Multi-Objective Algorithms,” *2024 IEEE World Congress on Computational Intelligence* (IEEE WCCI 2024), Yokohama, Japan, July 30 - August 5, 2024. ([Tutorial Talk](#))
- [54] L. M. Pang, K. Shang, and H. Ishibuchi, “New EMO Algorithm Framework with an Unbounded External Archive: Basic Ideas and Research Directions,” *2024 IEEE World Congress on Computational Intelligence* (IEEE WCCI 2024), Yokohama, Japan, July 30 - August 5, 2024. ([Tutorial Talk](#))
- [55] H. Ishibuchi, L. M. Pang, and K. Shang, “New Framework of Multi-Objective Evolutionary Algorithms with Unbounded External Archive,” *2024 Genetic and Evolutionary Computation Conference* (GECCO 2024),

Melbourne, Australia, July 14-18, 2024. (Tutorial Talk)

- [56] H. Ishibuchi, "Fair Performance Comparison of Multi-objective Evolutionary Algorithms," *2nd IEEE CIS Summer School on Contemporary Advancement in Multi Objective Optimization (CAMOO)*, Assam University, Silchar, India, August 16-20, 2024. (Invited Lecture)
- [57] L. M. Pang and H. Ishibuchi, "Introduction to Evolutionary Multi-Objective Optimization," 2024 IEEE International Conference on Systems, Man, and Cybernetics (IEEE SMC 2024), Kuching, Sarawak, Malaysia, October 6-10, 2024. (Tutorial Talk)
- [58] H. Ishibuchi, "New Research Directions in Evolutionary Multi-Objective Optimization," 2024 Joint 13th International Conference on Soft Computing and Intelligent Systems and 25th International Symposium on Advanced Intelligent Systems (SCIS&ISIS 2024), Himeji, Japan, November 9-12, 2024. (Plenary Talk)

Academic Service for Societies

SOFT (Japan Society for Fuzzy Theory and Intelligent Informatics)

Governing Board Member (June 2003 - May 2005)

Vice-President (June 2007 - May 2009)

JSEC (Japanese Society for Evolutionary Computation)

Governing Board Member (April 2010 - September 2012)

Vice-President (October 2014 - September 2016)

Editor-in-Chief of the Journal of JSEC (October 2014 - September 2018)

President (October 2016 - September 2018)

IEEE Computational Intelligence Society

Fuzzy Systems Technical Committee Chair (2008-2009)

Awards Committee Member (2008, 2009, 2011)

Nominations Committee Member (2008, 2014, 2015)

Vice President for Technical Activities (2010-2013)

Executive Committee Member (2010-2013)

Conferences Committee Member (2010-2013)

Administrative Committee Member (2014-2019, 2021-2026)

Publications Committee Member (2014-2019)

Strategic Planning Committee Member (2014-2016)

Distinguished Lecturer Program Lecturer (2015-2017, 2021-2023)

Distinguished Lecturer Program Subcommittee Member (2016-2019)

IEEE Computational Intelligence Magazine Outstanding Paper Award Subcommittee Chair (2014-2019)

IEEE Computational Intelligence Magazine Outstanding Paper Award Subcommittee Member (2020-2023)

IEEE CIS Outstanding Organization Award Subcommittee Member (2020)

IEEE CIS Outstanding Organization Award Subcommittee Chair (2021-2023)

IEEE CIS Fuzzy Systems Pioneer Award Subcommittee Chair (2024)

IEEE CIS Publications Committee Strategic Planning Subcommittee Member (2021-2022)

IEEE CIS Conference Committee Strategic Planning Subcommittee Member (2022)

IEEE CIS Evolutionary Computation Technical Committee Member (2016-2024)

IEEE CIS IEEE Fellow Nomination Committee Member (2024)

IEEE Systems, Man, and Cybernetics Society

Fellow Committee Member (2015 - 2020)

IEEE

IEEE Frank Rosenblatt Award Committee Member (2014 - 2017)

IFSA (International Fuzzy Systems Association)

Treasurer (2013 - 2017)

Academic Service for International Journals

Editor-in-Chief

IEEE Computational Intelligence Magazine (2014 - 2019)

Associate Editor

IEEE Trans. on Systems, Man and Cybernetics - Part B (2002 - 2012)

IEEE Trans. on Fuzzy Systems (2004 - 2014)

IEEE Computational Intelligence Magazine (2006 - 2013)

IEEE Trans. on Evolutionary Computation (2007 - 2022, 2024 -)

Journal of Applied Computer Science Methods (2009 - 2017)

International Journal of Computational Intelligence Research (2010 -)

IEEE Trans. on Cybernetics (2013 - 2024)

IEEE Access (2013 - 2024)

Journal of Artificial Intelligence and Soft Computing Research (2017 -)

ACM Computing Surveys (2022 -)

Evolutionary Computation Journal (2024 -)

Area Editor

Soft Computing (2007 - 2011)

Editorial Board Member

International Journal of Hybrid Intelligent Systems (2003 -)

Journal of Advanced Computational Intelligence and Intelligent Informatics (2004 -)

International Journal of Intelligent Computing and Cybernetics (2007 - 2018)

International Journal of Metaheuristics (2007 -)

Memetic Computing (2007 -)

Open Electrical & Electronic Engineering Journal (2007 - 2012)

Progress in Artificial Intelligence (2010 -)

Fuzzy Sets and Systems (2011 - 2019)

Quantum Machine Intelligence (2019 - 2024)

Editorial Advisory Board Member

Swarm and Evolutionary Computing (2010 -)

Advisory Board Member

International Journal of Knowledge Engineering and Soft Data Paradigms (2007 -)

IEEE Trans. on Fuzzy Systems (2015 - 2020)

Steering Committee Member

IEEE Trans. on Autonomous Mental Development (2014 - 2015)

Guest Editor

- Special Issue on “Memetic Algorithms” (with Yew-Soon Ong and Natalio Krasnogor), IEEE Trans. on Systems, Man and Cybernetics - Part B, vol. 37, no. 1, February 2007.
- Special Issue on “Emerging Trends in Soft Computing: Memetic Algorithms” (with Yew-Soon Ong, Meng-Hiot Lim, and Ferrante Neri), Soft Computing, vol. 12, no. 8-9, July 2009.
- Special Issue on “Evolutionary Fuzzy Systems” (with Yusuke Nojima, Rafael Alcala, and Francisco Herrera), Soft Computing, vol. 15, no. 12, December 2011.
- Special Issue on “Evolutionary Fuzzy Systems” (with Rafael Alcala, Yusuke Nojima, and Francisco Herrera), International Journal of Computational Intelligence Systems, vol. 5, no. 2, April 2012.
- Special Issue on “Evolutionary Fuzzy Systems” (with Rafael Alcala, Yusuke Nojima, and Francisco Herrera), International Journal of Uncertainty Fuzziness and Knowledge-Based Systems, vol. 20, October 2012.
- Special Issue on “Evolutionary Fuzzy Systems” (with Rafael Alcala, Yusuke Nojima, and Francisco Herrera), Knowledge-Based Systems, vol. 54, December 2013.
- Special Issue on “Fuzzy Techniques in Financial Modeling and Simulation” (with Antoaneta Serguieva, Ronald R. Yager, and Vasile Palade), IEEE Transactions on Fuzzy Systems, vol. 25, no. 2, April 2017.
- Special Issue on “Evolutionary Many-Objective Optimization” (with Yaochu Jin and Kaisa Miettinen), IEEE Transactions on Evolutionary Computation, vol. 22, no. 1, February 2018.
- Special Issue on “Explainable Artificial Intelligence” (with José María Alonso and Corrado Mencar), IEEE Computational Intelligence Magazine (February 2022).
- Special Issue on “Deep Reinforcement Learning for Optimization: Methods and Application” (with R. Wang, L. Xing, M. Gong, P. N. Suganthan), IEEE Trans. on Emerging Topics in Computational Intelligence, Vol. 7, no. 4, August 2023.

Academic Service for Conferences

Conference Chairs

- IJCNN 1997, Area Chair (USA)
- FUZZ-IEEE 1998, Area Chair (USA)
- 2003 Fuzzy System Symposium, Program Chair (Japan, Domestic Conference)
- FUZZ-IEEE 2006, Technical Co-Chair (Canada)
- EMO 2007, Program Co-Chair (Japan)
- FUZZ-IEEE 2009, Area Chair (Korea)
- IFSA 2009, Area Chair (Portugal)
- SoCPaR 2009, Program Chair (Malaysia)
- IEEE CEC 2010, Program Chair (Spain)
- NaBIC 2010, Publicity Chair (Japan)
- FUZZ-IEEE 2011, Program Co-Chair (Taiwan)
- ICMLA 2011, General Chair (USA)
- FUZZ-IEEE 2012, Technical Co-Chair (Australia)
- WCCI 2012, “Conflict of Interest” Paper Co-Chair (Australia)
- ICGEC 2012, Advisory Chair (Japan)
- SEAL 2012, Technical Co-Chair (Vietnam)
- SSCI 2013, “Conflict of Interest” Paper Co-Chair (Singapore)

FUZZ-IEEE 2013, Program Co-Chair (India)
IEEE CEC 2013, Technical Co-Chair (Mexico)
IEEE CEC 2014, Program Co-Chair (China)
IES 2014, Program Chair (Singapore)
IEEE SSCI 2014, Publicity Chair (USA)
SEAL 2014, Technical Co-Chair (New Zealand)
IEEE CEC 2015, Special Sessions Chair (Japan)
FUZZ-IEEE 2015, Program Co-Chair (Turkey)
IFSA 2015, Special Sessions Co-Chair (Spain)
IEEE CIG 2015, Publicity Co-Chair (Taiwan)
IEEE WCCI 2016, “Conflict of Interest” Paper Co-Chair (Canada)
IEEE SSCI 2016, Special Sessions Co-Chair (Greece)
IEEE CEC 2017, “Conflict of Interest” Paper Co-Chair (Spain)
FUZZ-IEEE 2017, Keynote Chair (Italy)
ICACI 2018, Program Chair (China)
IEEE CEC 2018, Technical Chair (Brazil)
GECCO 2018, Tutorial Chair (Japan)
IEEE CIFEr 2019, General Chair (China)
IEEE CEC 2019, Technical Co-Chair (New Zealand)
IEEE CEC 2020, Technical Co-Chair (Glasgow)
ECAI 2020, Area Chair (Santiago de Compostela, Spain)
IEEE SSCI 2020, Conflict of Interest Chair (Canberra, Australia)
IEEE FASLIP 2020, Symposium Chair (Canberra, Australia)
EMO 2021, General Chair (Shenzhen, China)
IEEE CEC 2021, Technical Co-Chair (Kraków)
IEEE SSCI 2022, Program Chair (Singapore)
IEEE CEC 2023, Technical Co-Chair (Chicago, USA)
FUZZ-IEEE 2023, Award Co-Chair (Seoul, Korea)
ECAI 2023, Area Chair (Kraków, Poland)
IEEE CAI 2024, International Advisory Co-Chair (Singapore)
IEEE WCCI 2024, General Chair (Yokohama, Japan)
NeurIPS 2024, Area Chair (Vancouver, Canada)
EMO 2025, Conflict of Interest Chairs (Canberra, Australia)
IEEE CEC 2025, International Publicity Chairs (Hangzhou, China)

Senior Program Committee Member

AAAI 2019 (Hawaii, USA)
IJCAI 2021 (Montreal, Canada)

Program Committee Member & Technical Committee Member

AFFS 2002
AI 2015
AMS 2007, 2008, 2009

ACALCI 2016
BAFI 2015, 2018
CIG 2006, 2013, 2016
CICN 2010, 2011, 2012
CISIM 2009
CIS 2006
CSTST 2008
CSNT 2011, 2012, 2013
CYBCONF 2013
DMAI 2008
ECTA 2020-2021
EMO 2001, 2003, 2005, 2007, 2009, 2011, 2013, 2015, 2017, 2019, 2021, 2023, 2025
EMODA 2006
FSKD 2002, 2005, 2006, 2007
FUZZ-IEEE 1998, 2000, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2023
GECCO 1999, 2000, 2002, 2005, 2006-2025
GEFS 2011, 2013
GFS 2005
HAIS 2007
HIS 2004, 2005, 2006, 2007, 2008
IADIS ECDM 2007
ICACI 2012
ICAINN 2003
ICAISC 2010
ICAPR 2007, 2009
ICCIT 2008
ICCMS 2009
ICFC 2009
ICHIT 2006
ICINCO 2009
ICMI 2005
ICNC 2006
ICRAS 2009
ICS 2010
ICSI 2011, 2012, 2013, 2014
ICSIM 2009
ICTAI 2007
IDEAL 2006, 2007
IEA/AIE 2009, 2010, 2011
IEEE FOCI 2007
IEEE IS 2012
IEEE ISIC 2007
IEEE MC 2009, 2011
IEEE MCDM 2009

IEEE CEC 2004, 2007, 2010, 2022
IEEE WF-IoT 2014
IES 2015, 2016
IFMIP 2011
IFSA 2001, 2013
IICAL 2011
IJCAI 2020, 2022-2025
IJCNN 1997
Intech 2003, 2005
IPMU 2010
ISCIIA 2004, 2015-2020
ISCIS 2009
ISCIS & SCIS 2006,
ISDA 2008, 2009, 2010
ISIS 2007
IUM 2010
KES 2003, 2004, 2005, 2006, 2009, 2010
LION 2013, 2014
MC 2013
MCDM 2020
MOPGP 2006
NAFIPS 2005, 2016
NaBIC 2009
PPSN 2012, 2014, 2016, 2018, 2020, 2022
PReMI 2023
RIVF 2009, 2010, 2012
SEAL 2006, 2008, 2010, 2012
SKIMA 2006, 2008
SMC 2003, 2004, 2007
SYNASC 2007, 2008
TAAI 2013, 2015
UKCI 2012
WSC 2002, 2004, 2005, 2006, 2007, 2008, 2009, 2010

International Advisory Committee (Advisory Board) Member

ADCIS 2022
CISDA 2014
DMCBI 2012
ELM 2015, 2016
FANCCO 2014, 2015
FUZZ-IEEE 2015
HIS 2012, 2013, 2014
IBICA2012
ICBI 2017
ICCI 2017

ICRCICN 2015, 2016, 2017, 2018
ICRDCIT 2014
ICTTA 2008
IEEE INDICON 2021
IEEE WCI 2015
iFAN 2010
ISCBI 2013
ISCMi 2017
ISDA 2012
ISMSI 2018
NaBIC 2012
RiTA 2012, 2013, 2014
SEAL 2016
SEMCCO 2014
SoCPaR 2013, 2015
SOCPROS 2011
WICT 2013
World Computer GO Congress 2010, 2011

Steering Committee Member

EMO 2009, 2011, 2013, 2015, 2017, 2019, 2021, 2023, 2025
IEEE MCDM 2007
IES 2017