

Curriculum Vitae

Name: Tadahiko Murata
Sex: Male
Nationality: Japanese
Date of Birth: July 21, 1971
Age: 33 (as of October 20, 2004)

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Education (in Chronological Order)

March, 1994	Bachelor of Engineering	Department of Industrial Engineering, Faculty of Engineering, Osaka Prefecture University
March, 1996	Master of Engineering	Field of Industrial Engineering, Division of Engineering, Graduate School of Osaka Prefecture University
March, 1997 Two Years Skipped	Doctor of Engineering	Electrical Engineering and Information Science, Division of Engineering, Graduate School of Osaka Prefecture University Theme: "Genetic Algorithms for Multi-Objective Optimization" 147 pages.

Awards

1997	Best Presentation Award Institute of Systems, Control and Information Engineers, Japan	Theme: Flowshop Scheduling with Interval Processing Time
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Work Experience (in Chronological Order)

April, 1997 - March, 1998	Research Associate at Department of Industrial Systems Engineering, Faculty of Engineering, Ashikaga Institute of Technology, Japan
March, 1998 - Sept., 2001	Assistant Professor at Department of Industrial and Information Systems Engineering, Faculty of Engineering, Ashikaga Institute of Technology, Japan
Sept., 2001 - Present	Associate Professor at Faculty of Informatics, Department of Informatics, Kansai University, Japan
April, 2002 - Present	Associate Professor at School of Informatics, Informatics Major, Kansai University Graduate School, Japan

Review Experience (International Journals)

IEEE Transaction on Systems, Man, and Cybernetics Part B
 IEEE Transaction on Systems, Man, and Cybernetics Part C
 IEEE Transaction on Evolutionary Computation
 IEEE Transaction on Fuzzy Systems
 IEEE Transaction on Neural Networks
 Fuzzy Sets and Systems
 New Generation Computing

Review Experience (Domestic Journals, Japan)

Journal of Japan Society for Fuzzy Theory and Systems
 IPSJ Transactions on Mathematical Modeling and Its Applications (IPSI: Information Processing Society of Japan)
 Transactions of The Institute of Systems, Control and Information Engineers
 Transactions of The Institute of Electronics, Information and Communication Engineers A
 IEEJ Transactions on Electronics, Information and Systems (IEEJ: Institute of Electrical Engineers of Japan)

Academic Society and Social Activities (International)

Required Period	Program Committee Member of	Genetic and Evolutionary Computation Conference (GECCO 2000, Las Vegas, U.S.A., July 8-12, 2000)
Required Period	Program Committee Member of	Third Asia-Pacific Conference on Simulated Evolution and Learning (SEAL 2000 joined with IECON 2000, Nagoya, Japan, Oct. 25-27, 2000)
Required Period	Program Committee Member of	First International Conference on Evolutionary Multi-Criterion Optimization (EMO'01, Zurich, Switzerland, March 7-9, 2001)
Required Period	Program Committee Member of	Genetic and Evolutionary Computation Conference (GECCO 2001, San Francisco, U.S.A., July 7-11, 2001)
Required Period	Program Committee Member of	Genetic and Evolutionary Computation Conference (GECCO 2002, New York, U.S.A., July 9-13, 2002)
Required Period	Program Committee Member of	First International Symposium on Cyber World (CW 2002, Tokyo, Japan, November 6-8, 2002)
Required Period	Reviewer Member of	6th World Multi-Conference on Systemics, Cybernetics and Informatics (SCI 2002, Orlando, U.S.A., July 14-18, 2002)
Required Period	Invited Track Organizer of	2002 IEEE International Conference on Systems, Man and Cybernetics (SMC 2002, Hammamet, Tunisia, October 6-9, 2002)
Required Period	Program Committee Member of	2nd International Conference on Evolutionary Multi-Criterion Optimization (EMO'03, Faro, Portugal, April 8-11, 2003)
Required Period	Program Committee Member of	Genetic and Evolutionary Computation Conference (GECCO 2003, Chicago, Illinois, U.S.A., July 12-16, 2003)
Required Period	Invited Track Organizer of	2003 IEEE International Conference on Systems, Man and Cybernetics (SMC 2003, Washington, D.C., USA, October 5-8, 2003)
Required Period	Invited Track Organizer of	2004 IEEE International Conference on Systems, Man and Cybernetics (SMC 2004, The Hague, The Netherlands, October 10-13, 2004)
Required Period	Program Committee Member of	3rd International Conference on Evolutionary Multi-Criterion Optimization (EMO'05, Mexico, March 11-15, 2005)
Required Period	Program Committee Member of	Genetic and Evolutionary Computation Conference (GECCO 2005, Washington D.C., U.S.A., June 25-29, 2005)
Feb., 2002 – Present	Member of	The Soft Computing Committee, The IEEE SMC Technical Committee

Academic Society and Social Activities (Domestic)

April, 1998 – Aug., 2000	Editorial Member of	"Fuzzy and Soft Computing Handbook", Edited by Japan Society for Fuzzy Theory and Systems
April, 1998 – Mar, 2003	Treasurer of	Division of Evolutionary Computation, Japan Society for Fuzzy Theory and Systems
June, 2001 – Oct., 2001	Program Committee Member of	Evolutionary Computation Symposium (Intelligent Information Center, Doshisha University, Oct. 18-19, 2001), Division of Mathematical Model and Problem Solving, Information Processing Society of Japan
Aug., 2002 – Jan., 2003	Program Committee Member of	Evolutionary Computation Symposium 2002 (Intelligent Information Center, Doshisha University, Jan. 16-17, 2003), Division of Mathematical Model and Problem Solving, Information Processing Society of Japan
Sept., 2002 – Sept., 2003	Member of	Organizing Committee, Fuzzy System Symposium 2003 (Osaka Prefecture University, Sep. 8-10, 2003), Japan Society for Fuzzy Theory and Systems
April, 1999 – Present	Member of	Division of Fuzzy Operations Research, Japan Society for Fuzzy Theory and Systems
April, 2000 – Present	Member of	Division of Computational Intelligence, Japan Industrial Management Association
Oct., 2001 – Present	Editorial Member of	Journal of Japan Society for Fuzzy Theory and Systems
April, 2003 – Present	Chair of	Division of Evolutionary Computation, Japan Society for Fuzzy Theory and Systems
Sept., 2003 – Present	Member of	Division of Social Events, Japan Society for Fuzzy Theory and Systems

Activities within University

April, 1998 – Mar, 2000	Member of	Information Science Center Committee, Ashikaga Institute of Technology
April, 1998 – Mar, 2001	Advisor of	Students Enrolling in Dept. of Industrial and Information Systems Engineering, Ashikaga Institute of Technology
April, 1999 – Mar, 2001	Member of	Webpage Committee, Ashikaga Institute of Technology
April, 2000 – Mar, 2001	Member of	Employment Placement Committee, Ashikaga Institute of Technology
Oct, 2001 – Sept, 2003	Member of	Research Activity Committee, Faculty of Informatics, Kansai University
Oct, 2001 – Sept, 2003	Member of	Facility Committee, Faculty of Informatics, Kansai University
Oct, 2003 – Sept, 2004	Member of	Executive Committee (As Chief of Student Affairs), Faculty of Informatics, Kansai University
Oct, 2003 – Sept, 2004	Chair of	Student Affairs Committee, Faculty of Informatics, Kansai University
Oct, 2003 – Sept, 2004	Member of	Traffic Problem Committee, Kansai University
Oct, 2003 – Sept, 2004	Member of	Laboratory for Human Rights, Kansai University
April, 2003 – Present	Member of	Graduate School Self-Evaluation Committee, Graduate School of Informatics, Kansai University
Oct, 2003 – Present	Member of	Self-Evaluation Committee, Faculty of Informatics, Kansai University
Oct, 2003 – Present	Member of	Human Rights Committee, Kansai University

List of Publications**Journals & Reviewed Book Chapters**

1. Tadahiko Murata, Shiori Kaige, Hisao Ishibuchi, "Local Search Direction for Multi-Objective Optimization Using Memetic EMO Algorithms," *Knowledge Incorporation in Evolutionary Computation (Studies in Fuzziness and Soft Computing, Vol.167)*, Y. Jin (Ed.), (Springer-Verlag, Heidelberg, 2005) pp. 385-410.
2. Tadahiko Murata, Shiori Kaige, Hisao Ishibuchi, "Dominance relation-based replacement rules in memetic algorithms for multiobjective optimization problems," *IPSN Transactions on Mathematical Modeling and Its Applications*, Vol. 45, No. SIG 2, pp.119-133 (February, 2004).
3. Hisao Ishibuchi, Tadashi Yoshida, Tadahiko Murata, "Balance between genetic search and local search in memetic algorithms for multiobjective permutation flowshop scheduling," *IEEE Transaction on Evolutionary Computation*, Vol. 7, No. 2, pp.204-223 (April, 2003).
4. Hisao Ishibuchi, Tomoharu Nakashima, Tadahiko Murata, "Three-objective genetic-based machine learning for linguistic rule extraction," *Information Sciences: An International Journal*, Vol. 136, No. 1-4, pp.109-133 (August, 2001).
5. Hisao Ishibuchi, Tadahiko Murata, "Flowshop scheduling with fuzzy due date and fuzzy processing time," *Advances in Scheduling and Sequencing Under Fuzziness (Studies in Fuzziness, Vol.37)*, R. Slowinski and M. Hapke (Eds.), (Physica-Verlag, Heidelberg, 2000) pp. 113-143.
6. Hisao Ishibuchi, Tadahiko Murata, "Fuzzy Pattern Classification," *Fuzzy and Soft Computing Hand Book* (Edited by Japan Society for Fuzzy Theory and Systems, Kyoritsu, Tokyo, 2000) pp. 183-206.
7. Tadahiko Murata, Hisao Ishibuchi, Mitsuo Gen, "Formulation of multi-objective fuzzy scheduling problems with job importance grades," *Journal of Japan Society for Fuzzy Theory and Systems*, Vol. 11, No. 3, pp. 512-520 (June, 1999).
8. Hisao Ishibuchi, Tadahiko Murata, Tomoharu Nakashima, "Linguistic rule extraction from numerical data for high-dimensional classification problems," *Journal of Advanced Computational Intelligence*, Vol.3, No.5, pp.386-393 (1999).
9. Hisao Ishibuchi, Tomoharu Nakashima, Tadahiko Murata, "Performance evaluation of fuzzy classifier systems for multi-dimensional pattern classification problems," *IEEE Transaction on Systems, Man, and Cybernetics*, Part B, Vol.29, No.5, pp.601-618 (October, 1999).
10. Hisao Ishibuchi, Tomoharu Nakashima, Tadahiko Murata, "Techniques and applications of GA-based methods for designing fuzzy classification systems," *Fuzzy Theory Systems Techniques and Applications Vol.3*, C.T.Leondes (Ed.), (Academic Press, 1999) pp. 1081-1109.
11. Hisao Ishibuchi, Tadahiko Murata, "A multi-objective genetic local search algorithm and its application to flowshop scheduling," *IEEE Transaction on Systems, Man, and Cybernetics*, Part C, Vol.28, No.3, pp.392-403 (August, 1998).

12. Hisao Ishibuchi, Tadahiko Murata, Kyu-Hung Lee, "Flowshop scheduling problems with interval processing time," *Journal of Japan Industrial and Management Association*, Vol.49, No.2, pp.59-69 (June, 1998).
13. Hisao Ishibuchi, Tadahiko Murata, "Genetic local search algorithm for multi-objective flowshop scheduling problems," *Journal of Japan Industrial and Management Association*, Vol.48, No.6, pp.301-313 (February, 1998).
14. Hisao Ishibuchi, Tadahiko Murata, Kyu-Hung Lee, "Formulation of multi-objective scheduling problems using fuzzy due-date," *Journal of Japan Society for Fuzzy Theory and Systems*, Vol.9, No.6, pp.995-1004 (December, 1997).
15. Hisao Ishibuchi, Tadahiko Murata, Shigemitsu Tomioka, "Flowshop scheduling by genetic local search," *Transactions of The Institute of Systems, Control and Information Engineers*, Vol.10, No.10, pp.563-565 (October, 1997).
16. Hisao Ishibuchi, Tadahiko Murata, I.B.Turksen, "Single-objective and two-objective genetic algorithms for selecting linguistic rules for pattern classification problems," *Fuzzy Sets and Systems*, Vol. 89, No. 2, pp. 135-150 (July, 1997).
17. Hisao Ishibuchi, Tadahiko Murata, Tomoharu Nakashima, "Genetic-algorithm-based approach to classification problems," *Fuzzy Evolutionary Computation*, W.Pedrycz (Ed.), (Kluwer Academic Publishers, Boston, USA, June, 1997) pp. 127-153.
18. Hisao Ishibuchi, Tomoharu Nakashima, Tadahiko Murata, "Comparison between Michigan approach and Pittsburgh approach to the design of fuzzy classification systems," *Transaction of the Institute of Electronics, Information and Communication Engineers A*, Vol.J80-A, No.2, pp.379-387 (February, 1997).
19. Tadahiko Murata, Hisao Ishibuchi, "Performance evaluation of genetic operations for flowshop scheduling," *Transactions of The Institute of Systems, Control and Information Engineers*, Vol.9, No.10, pp.482-484 (October, 1996).
20. Hisao Ishibuchi, Tadahiko Murata, "A genetic-algorithm-based fuzzy partition method for pattern classification problems," *Genetic Algorithms and Soft Computing (Studies in Fuzziness, Vol.8)*, F.Herrera and J.L.Verdegay (Eds.), (Physica-Verlag, Heidelberg, Germany, September, 1996) pp.555-578.
21. Hisao Ishibuchi, Tadahiko Murata, Hideo Tanaka, "Construction of fuzzy classification systems with linguistic if-then rules using genetic algorithms," *Genetic Algorithms for Pattern Recognition*, Sankar K.Pal and Paul P.Wang (Eds.), (CRC Press, Boca Raton, Florida, USA, September, 1996) pp.227-251.
22. Tadahiko Murata, Hisao Ishibuchi, Hideo Tanaka, "Multi-objective genetic algorithm and its application to flowshop scheduling," *Computers and Industrial Engineering Journal*, Vol.30, No.4, pp.957-968 (September, 1996).
23. Tomoharu Nakashima, Tadahiko Murata, Hisao Ishibuchi, "Acquisition of linguistic classification rules by a classifier system," *Journal of Japan Industrial and Management Association*, Vol.47, No.3, pp.199-206 (August, 1996).
24. Hisao Ishibuchi, Tomoharu Nakashima, Tadahiko Murata, "A fuzzy classifier system that generates linguistic rules for pattern classification problems," *Fuzzy Logic, Neural Networks, and Evolutionary Computation (Lecture notes in Artificial Intelligence 1152)* (Selected papers in IEEE/Nagoya-University World Wisepersons Workshop, Nagoya, Japan, November 14-15, 1995), Takeshi Furuhashi and Yoshiki Uchikawa (Eds.), (Springer-Verlag, Berlin, Germany, July, 1996) pp.35-54.
25. Hisao Ishibuchi, Tadahiko Murata, "A learning method of fuzzy classification rules by a genetic algorithm," *Transaction of the Institute of Electronics, Information and Communication Engineers A*, Vol.J79-A, No.7, pp.1289-1297 (July, 1996).
26. Tadahiko Murata, Hisao Ishibuchi, Hideo Tanaka, "Genetic algorithms for flowshop scheduling problems," *Computers and Industrial Engineering Journal*, Vol.30, No.4, pp.1061-1071 (September, 1996).
27. Hisao Ishibuchi, Tadahiko Murata, "Selection of linguistic classification rules using two-objective genetic algorithms," *Journal of Japan Society for Fuzzy Theory and Systems*, Vol.7, No.5, pp.1041-1049 (October, 1995).
28. Hisao Ishibuchi, Tadahiko Murata, Hideo Tanaka, "Construction of fuzzy classification systems using genetic algorithm," *Journal of Japan Society for Fuzzy Theory and Systems*, Vol.7, No.5, pp.1022-1040 (October, 1995).
29. Tadahiko Murata, Hisao Ishibuchi, Hideo Tanaka, "Flowshop scheduling by genetic algorithm and its application to multi-objective problems," *Transactions of the Society of Instrument and Control Engineers*, Vol.31, No.5, pp.583-590 (May, 1995).
30. Hisao Ishibuchi, Naohisa Yamamoto, Tadahiko Murata, Hideo Tanaka, "Genetic algorithms and neighborhood search algorithms for fuzzy flowshop scheduling problems," *Fuzzy Sets and Systems*, Vol.67, No.1, pp.81-100 (October, 1994).

International Conference Proceedings

1. Tadahiko Murata, Ryota Itai, "Multi-Objective Vehicle Routing Problems Using Two-Fold EMO Algorithms to Enhance Solution Similarity on Non-dominated Solutions," *Proc. of Third International Conference on Evolutionary Multi-criterion Optimization* (Mexico, March 11-15, 2005), 13 pages (Accepted).
2. Tadahiko Murata, Yu Mizoguchi, "Suppressing Catastrophic Interference in RAN by Modifying the Generation and Retrieval Method for Long-Term Memory Data," *Proc. of the 2004 IEEE International Conference on System, Man and Cybernetics* (Hague, The Netherlands, October 10-13, 2004) 5 pages.
3. Tadahiko Murata, Nobuaki Kakito, "Products' Review Page Projection Using The Number of Evaluating Expressions," *Proc. of the WWW/Internet 2004* (Madrid, Spain, October 6-9, 2004) pp. 1061-1064.
4. Tadahiko Murata, Shoko Shirato, "History Using Browsing Duration to Assist Browsing Activity," *Proc. of the WWW/Internet 2004* (Madrid, Spain, October 6-9, 2004) pp. 1121-1124.
5. Tadahiko Murata, Hiroshi Matsumoto, "Use of Successful Policies to Relearn for Induced States of Failure in Reinforcement Learning," *Proc. of The Eighth International Conference on Knowledge-Based Intelligent Information & Engineering Systems* (Wellington, New Zealand, September 20-23, 2004), Vol. 1, pp. 1114-1120.
6. Tadahiko Murata, Kenji Takada, "Performance Evaluation of a Distributed Genetic Algorithm with Cellular Structures on Function Optimization Problems," *Proc. of The Eighth International Conference on Knowledge-Based Intelligent Information & Engineering Systems* (Wellington, New Zealand, September 20-23, 2004), Vol. 1, pp. 1128-1135.

7. Tadahiko Murata, Takashi Nakamura, "Developing Cooperation of Multiple Agents Using Genetic Network Programming with Automatically Defined Groups," *Proc. of Late Breaking Papers in Genetic and Evolutionary Computation: GECCO 2004* (Seattle, USA, June 26-30, 2004), CD-ROM (12 pages).
8. Tadahiko Murata, Takashi Nakamura, "Multi-Agent Cooperation Using Genetic Network Programming with Automatically Defined Groups," *Proc. of Genetic and Evolutionary Computation: GECCO 2004* (Seattle, USA, June 26-30, 2004), Vol. 2, pp. 712-714.
9. Tadahiko Murata, Hiroko Kitano, Tomoharu Nakashima, Hisao Ishibuchi, "Application of a Multi-Agent Model with Pioneers and Followers to a Day Care Center Allocation Problems," *Proc. of International Conference on Intelligent Technologies 2003* (Chiang Mai, Thailand, December 17-19, 2003), pp.179-186
10. Shiori Kaige, Tadahiko Murata, Hisao Ishibuchi, "Performance Evaluation of Memetic EMO Algorithms Using Dominance Relation-Based Replacement Rules on MOO Test Problems," *Proc. of the 2003 IEEE International Conference on System, Man and Cybernetics* (Washington, D.C., USA, October 5-8, 2003) pp. 14-19.
11. Tadahiko Murata, Shiori Kaige, Hisao Ishibuchi, "Generalization of Dominance Relation-based Replacement Rules for Memetic EMO Algorithms," *Proc. of Genetic and Evolutionary Computation: GECCO 2003* (Chicago, USA, July 12-16, 2003), pp. 1234-1245.
12. Tadahiko Murata, Hiroyuki Nozawa, Hisao Ishibuchi, Mitsuo Gen, "Modification of Local Search Directions for Non-dominated Solutions in Cellular Multiobjective Genetic Algorithms for Pattern Classification Problems," *Proc. of Second International Conference on Evolutionary Multi-criterion Optimization* (Faro, Portugal, April 8-11, 2003), pp. 593-607.
13. Tadahiko Murata, Hideyuki Takagi, "Analysis of Evolutionary Computation Research through IEEE Conferences," *Proc. of The 2002 IEEE International Conference on System, Man and Cybernetics* (Hammamet, Tunisia, October 6 - 9, 2002), 5 pages (CD-ROM).
14. Hisao Ishibuchi, Tadashi Yoshida, Tadahiko Murata, "Balance between Genetic Search and Local Search in Hybrid Evolutionary Multi-Criterion Optimization Algorithms," *Proc. of The Genetic and Evolutionary Computation Conference 2002* (New York, USA, July 9 - 13, 2002), pp. 1301-1308.
15. Tadahiko Murata, Hiroyuki Nozawa, Yasuhiro Tsujimura, Mitsuo Gen, Hisao Ishibuchi, "Effect of local search on the performance of cellular multi-objective genetic algorithms for designing fuzzy rule-based classification systems," *Proc. of the 2002 Congress on Evolutionary Computation* (Honolulu, Hawaii, U.S.A, May 12 - 17, 2002), pp. 663-668.
16. Hisao Ishibuchi, Tadashi Yoshida, Tadahiko Murata, "Selection of initial solutions for local search in multi-objective genetic local search," *Proc. of the 2002 Congress on Evolutionary Computation* (Honolulu, Hawaii, U.S.A, May 12 - 17, 2002), pp. 950-955.
17. Tadahiko Murata, Hiroyuki Nozawa, Yasuhiro Tsujimura, Mitsuo Gen, "Design of Fuzzy Classification Systems by Cellular Multi-Objective Genetic Algorithms," *Proc. of the 5th International Conference on Engineering Design and Automation* (Las Vegas, Nevada, U.S.A, August 5-8, 2001).
18. Tadahiko Murata, Takashi Sugimoto, Yasuhiro Tsujimura, Mitsuo Gen, Hisao Ishibuchi, "Rule conversion in knowledge acquisition for flowshop scheduling problems," *Proc. of Joint 9th the International Fuzzy Systems Association (IFSA) World Congress and 20th the North American Fuzzy Information Processing Society (NAFIPS) International Conference* (Vancouver, Canada, July 25-28, 2001), pp. 2417-2421 (CD-ROM).
19. Tadahiko Murata, Shuhei Kawakami, Hiroyuki Nozawa, Mitsuo Gen, Hisao Ishibuchi, "Three-objective genetic algorithms for designing compact fuzzy rule-based systems for pattern classification problems," *Proc. of The Genetic and Evolutionary Computation Conference 2001* (San Francisco, CA, USA, July 7-11, 2001), pp. 485-492
20. Tadahiko Murata, Hisao Ishibuchi, Mitsuo Gen, "Specification of genetic search directions in cellular multi-objective genetic algorithms," *Proc. of First International Conference on Evolutionary multi-criterion optimization* (Zurich, Switzerland, March 7-9, 2001), pp. 82-95.
21. Hisao Ishibuchi, Tomoharu Nakashima, Tadahiko Murata, "Multiobjective optimization in linguistic rule extraction from numerical data," *Proc. of First International Conference on Evolutionary multi-criterion optimization* (Zurich, Switzerland, March 7-9, 2001), pp. 588-602.
22. Tadahiko Murata, Takashi Sugimoto, Yasuhiro Tsujimura, "Appropriate fuzzy operations for cell formation method with fuzzy characteristic features," *Proc. of The 3rd Asia-Pacific Conference on Industrial Engineering and Management Systems* (Hong Kong, Dec. 20-22, 2000), pp. 301-304.
23. Tadahiko Murata, Takashi Sugimoto, Yasuhiro Tsujimura, "Fuzzy operation in cell formation method with fuzzy linguistic values for group technology," *Proc. of The 4th Japan-Australia Joint Workshop on Intelligent and Evolutionary Systems* (Hayama, Japan, Oct. 31- Nov. 2, 2000), pp. 143-147.
24. Tadahiko Murata, Hirokatsu Oshida, Mitsuo Gen, "Rule-based weight definition for multi-objective fuzzy scheduling with the OWA operator," *Proc. of 2000 IEEE International Conference on Industrial Electronics, Control and Instrumentation* (Nagoya, Japan, Oct. 25-27, 2000), pp. 2756-2761 (CD-ROM).
25. Tadahiko Murata, Hisao Ishibuchi, Mitsuo Gen, "Cellular genetic local search for multi-objective optimization," *Proc. of The Genetic and Evolutionary Computation Conference 2000* (Las Vegas, Nevada, USA, July 8-13, 2000), pp. 307-314.
26. Tadahiko Murata, Mitsuo Gen, "Cellular genetic algorithm for multi-objective optimization," *Proc. of The Fourth Asian Fuzzy System Symposium* (Tsukuba, Japan, May 31-June 3, 2000), pp. 538-542
27. Tadahiko Murata, Mitsuo Gen, "Performance evaluation of solution-based GA and rule-based GA for scheduling problems," *Proc. of The Fourth Asian Fuzzy System Symposium* (Tsukuba, Japan, May 31-June 3, 2000), pp. 696-699.
28. Tadahiko Murata, Mitsuo Gen, "Combinations of dispatching rules for scheduling problems using genetic algorithms," *Proc. of The Second Asia Pacific Conference on Industrial Engineering and Management Systems* (Kanazawa, Japan, October 30-31, 1999), pp. 315-318
29. Hisao Ishibuchi, Tadahiko Murata, "Local search procedures in a multi-objective genetic local search algorithm for scheduling problems," *Proc. of The 1999 IEEE International Conference on Systems, Man and Cybernetics* (Tokyo, Japan, October 12-15, 1999), Vol. I, pp. 665-670 (CD-ROM Vol. 1).
30. Tadahiko Murata, Hisao Ishibuchi, Mitsuo Gen, "Construction of fuzzy classification systems using multiple fuzzy rule tables," *Proc. of The 1999 IEEE International Conference on Systems, Man and Cybernetics* (Tokyo, Japan, October 12-15, 1999), Vol. IV, pp.875-880 (CD-ROM Vol. 2).
31. Tadahiko Murata, Hisao Ishibuchi, Mitsuo Gen, "Multi-objective fuzzy scheduling with the OWA operator for handling different scheduling criteria and different job importance," *Proc. of The 7th IEEE International Conference on Fuzzy Systems* (Seoul, Korea, August 22-25, 1999).
32. Tadahiko Murata, Hisao Ishibuchi, Mitsuo Gen, "Specification of local search directions in genetic local search algorithms for multi-objective optimization problems," *Proc. of The Genetic and Evolutionary Computation Conference* (Orlando, Florida, USA, July 13-17, 1999), pp. 441-448.

33. Hisao Ishibuchi, Tomokazu Sotani, Tadahiko Murata, "Tradeoff between the performance of fuzzy rule-based classification systems and the number of fuzzy if-then rules," *Proc. of The 18th International Conference of the North American Fuzzy Information Processing Society* (New York, New York, USA, June 10-12, 1999), pp. 125-129.
34. Tadahiko Murata, Hisao Ishibuchi, Mitsuo Gen, "Multi-objective fuzzy scheduling problems considering job importance grades," *Proc. of The 2nd Japan-Australia Joint Workshop on Intelligent and Evolutionary Systems* (Kyoto, Japan, November 12-14, 1998), pp. 188-193.
35. Tadahiko Murata, Dawei Zheng, Mitsuo Gen, "Dynamic parameter specifications in genetic algorithms," *Proc. of The 2nd Japan-Australia Joint Workshop on Intelligent and Evolutionary Systems* (Kyoto, Japan, November 12-14, 1998), pp. 182-187.
36. Tadahiko Murata, Dawei Zheng, Mitsuo Gen, "Adaptive genetic algorithms for scheduling problems," *Proc. of The 1st Asia-Pacific Workshop on Genetic Algorithms and Applications* (Beijing, China, October 18-20, 1998), in *Beijing Mathematics*, Vol. 4, No. 2, pp. 34-41.
37. Tadahiko Murata, Hisao Ishibuchi, Mitsuo Gen, "Multi-objective fuzzy scheduling problems considering job satisfaction goals," *Proc. of The 1st China-Japan Joint Conference on Industrial Engineering and Management* (Beijing, China, October 16-17, 1998), pp. 149-154.
38. Tadahiko Murata, Dawei Zheng, Mitsuo Gen, "Parameters in adaptive genetic algorithms for scheduling problems," *Proc. of The 1st China-Japan Joint Conference on Industrial Engineering and Management* (Beijing, China, October 16-17, 1998), pp. 143-148.
39. Hisao Ishibuchi, Tomoharu Nakashima, Tadahiko Murata, "Formulation of a fuzzy rule selection problem for high-dimensional classification problems," *Proc. of The 6th International Conference on Fuzzy Theory and Technology* (North Carolina, USA, October 23-28, 1998), pp. 119-122.
40. Hisao Ishibuchi, Tadahiko Murata, Tomokazu Sotani, "Fuzzy rule selection by genetic local search for pattern classification problems," *Proc. of The 5th International Conference on Soft Computing* (Iizuka, Fukuoka, Japan, October 16-20, 1998), pp. 923-926.
41. Tadahiko Murata, Hisao Ishibuchi, Mitsuo Gen, "Random weights in multi-objective genetic algorithms," *Proc. of The 2nd International Conference on Engineering Design and Automation* (Maui, Hawaii, USA, August 9-12, 1998, Only CD-ROM Proceedings available).
42. Tadahiko Murata, Hisao Ishibuchi, "Constructing multi-objective genetic local search algorithms for multi-objective flowshop scheduling problems," *Proc. of The 1998 Japan-USA Symposium on Flexible Automation* (Ohtsu, Japan, July 13-15, 1998), pp. 1353-1356.
43. Tadahiko Murata, Hisao Ishibuchi, Mitsuo Gen, "Formulation of multi-objective fuzzy scheduling problems using OWA operator," *Proc. of The 1998 Japan-USA Symposium on Flexible Automation* (Ohtsu, Japan, July 13-15, 1998), pp. 891-894.
44. Tadahiko Murata, Hisao Ishibuchi, Mitsuo Gen, "Scheduling criteria for interval flowshop scheduling problems," *Proc. of The World Automation Congress '98* (Alaska, USA, May 10-14, 1998), ISSCI 075.1-075.6 (CD-ROM).
45. Hisao Ishibuchi, Tadahiko Murata, "GA-based two-objective flowshop scheduling with interval processing time," *Proc. of The World Automation Congress '98* (Alaska, USA, May 10-14, 1998), ISSCI 046.1-046.6 (CD-ROM).
46. Hisao Ishibuchi, Tadahiko Murata, "Multi-objective genetic local search for minimizing the number of fuzzy rules for pattern classification problems," *Proc. of The 6th IEEE International Conference on Fuzzy Systems* (Alaska, USA, May 5-9, 1998), pp. 1100-1105 (CD-ROM).
47. Tomoharu Nakashima, Hisao Ishibuchi, Tadahiko Murata, "Evolutionary algorithms for constructing linguistic rule-based systems for high-dimensional pattern classification problems," *Proc. of The 5th IEEE International Conference on Evolutionary Computation* (Alaska, USA, May 5-9, 1998), pp. 752-757 (CD-ROM).
48. Tadahiko Murata, Hisao Ishibuchi, Mitsuo Gen, "Adjusting fuzzy partitions by genetic algorithms and histograms for pattern classification problems," *Proc. of The 5th IEEE International Conference on Evolutionary Computation* (Alaska, USA, May 5-9, 1998), pp. 9-14 (CD-ROM).
49. Tadahiko Murata, Hisao Ishibuchi, Mitsuo Gen, "Neighborhood structures for genetic local search algorithms," *Proc. of The 2nd International Conference on Knowledge-Based Intelligent Electronic Systems* (Adelaide, South Australia, Australia, April 21-23, 1998), Vol. 2, pp. 259-263.
50. Tadahiko Murata, Hisao Ishibuchi, Mitsuo Gen, "Fuzzy partition and input selection by genetic algorithms for designing fuzzy rule-based classification systems," *Evolutionary Programming VII* (as *Lecture Notes in Computer Science Vol. 1447*, *Proc. of The 7th Annual Conference on Evolutionary Programming*, San Diego, USA, March 25-27, 1998, Springer-Verlag, Berlin, Germany, May, 1998), pp. 407-416.
51. Hisao Ishibuchi, Tadahiko Murata, Mitsuo Gen, "Performance evaluation of fuzzy rule-based classification systems obtained by multi-objective genetic algorithms," *Proc. of The 22nd International Conference on Computers and Industrial Engineering* (Cairo, Egypt, December 20-22, 1997), pp. 316-319.
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