

CURRICULUM VITAE

Toru Ishida

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Date of Birth: July 17, 1953. Kyoto, Japan.

EMPLOYMENT HISTORY

- 2026-2028: Visiting Professor, Kyoto University of Foreign Studies (July 2026-March 2028)
- 2026-2028: Visiting Professor, The Academic Center for Computing and Media Studies, Kyoto University (February 2026-March 2028)
- 2024-2026: Visiting Professor, Telkom University, Indonesia (May 2024-April 2026)
- 2022-2026: Board Member, Shizuoka University of Art and Culture (April 2022-March 2026)
- 2022-2024: Dr Kennedy Wong Distinguished Visiting Professor, Department of Computer Science, Hong Kong Baptist University (September 2022-August 2024).
- 2019-2022: Professor without Tenure (April 2019-August 2022), School of Creative Science and Engineering, Waseda University.
- 2018-2022: Technical Advisor, ITP Inc.
- 1998-2019: Full Professor (April 1998-March 2019), Department of Social Informatics, Kyoto University.
- 2014-2018: Visiting Professor (October 2014 - October 2018), Xinjiang University.
- 2014-2017: Distinguished Professor of Science, (September 2014 - August 2017), Hong Kong Baptist University.
- 2008-2013: Visiting Professor, National Institute of Informatics.
- 2006-2011: Project Leader (April 2006 - March 2011), Language Grid, National Institute of Information and Communications Technology.
- 2002-2009: Visiting Professor (December 2002 - November 2005, February 2006 - January 2009), Shanghai Jiao Tong University.
- 1998-2005: Research Professor (October 1998 - March 2005), NTT Communication Science Laboratories.
- 1993-1998: Full Professor (July 1993), Department of Information Science, Kyoto University.
- 1989-1991: Senior Research Engineer, Supervisor, NTT Communications and

Information Processing Laboratories.

- 1978-1982: Research Engineer, NTT Yokosuka Electric Communication Laboratories.

EDUCATION

- 1989.7: Doctor of Engineering in Information Science, Kyoto University, Kyoto.
Dissertation: Performance Improvement of Production Systems
- 1978.3: Master of Engineering in Information Science, Kyoto University, Kyoto.
- 1976.3: Bachelor of Engineering in Information Science, Kyoto University, Kyoto.

AREAS OF INTEREST

- AI for Education
- Large Language Model and AI Agents
- Interdisciplinary Education and Design
- Language Services Infrastructure
- Digital Cities and Intercultural Collaboration
- Groupware and Communityware
- Autonomous Agents and Multiagent Systems
- Problem Solving, Planning and Heuristic Search
- Parallel and Distributed Computing

PROFESSIONAL ACTIVITIES (Selected)

Association and Board Memberships

- President-Elect and President, The Institute of Electronics, Information and Communication Engineers (IEICE), 2020.6-2022.6.
- President, NPO Language Grid Association, 2017-2019.
- Associate Member (24th-25th terms, Section III), Science Council of Japan, 2017.10-2023.9.
- Member (22nd-23rd terms, Section III), Science Council of Japan, 2011.10-2017.9.
- Member of the Scientific Council of Web Science Research Initiative, 2008-2011.
- Member of the AAAI Presidential Panel on Long-Term AI Futures, 2008-2009.
- Board Member of the International Foundation on Autonomous Agents and Multiagent Systems, IFAAMAS, 2007-2008.
- Representative Member, Information Processing Society of Japan (IPSJ), 2007-2008, 2010-2011.

Journals and Conferences

- Associate Editor of IEEE Transactions on Services Computing, 2017-2019.
- Associate Editor of the Journal of Autonomous Agents and Multi-Agent Systems, Kluwer Academic Publishers, 1997-2019.
- General Co-Chair of International Conference on Culture and Computing, 2012, 2013, 2015.
- General Chair, Science Council of Japan Informatics Symposium "The New Century of Big Data Led by Japan", 2013.
- Program Co-Chair of ACM International Conference on Intercultural Collaboration, ICIC, 2010.
- Series Editor of Springer Book Series of Agent Technology, Springer-Verlag, 2001-2006.
- Editor-in-Chief of Web Semantics: Journal of Science, Services and Agents on World Wide Web, Elsevier, 2003-2005.
- General Co-Chair, Coordinator of Integration of First International Conference on Autonomous Agents and Multiagent Systems, AAMAS, 2002.
- Planning Committee Chair of Pacific Rim International Workshop on Multi-Agents, PRIMA, 1999, 2000.
- Associate Editor of IEEE Transactions on Pattern Analysis and Machine Intelligence, 1996-1999.
- Program Co-Chair of the International Conference on Multiagent Systems, ICMAS, 1996.
- Editorial Board of the Journal of Artificial Intelligence Research JAIR, Morgan Kaufmann, 1995, 1996.

MEMBERSHIPS

- Asia-Pacific Artificial Intelligence Association (AAIA) Fellow from 2023.
- The Institute of Electronics, Information and Communication Engineers (IEICE) Honorary Member, Fellow from 2008.
- The Information Processing Society of Japan (IPSJ) Fellow from 2005.
- The Institute of Electrical and Electronics Engineers, Inc. (IEEE) Life Fellow, Fellow from 2002.
- The Association for Computing Machinery (ACM).
- The Japanese Society of Artificial Intelligence (JSAI).
- The American Association for Artificial Intelligence (AAAI).
- Japan Society for Software Science and Technology (JSSST).
- The Japan Association for Social Informatics (JASI).

AWARDS (Selected)

- 2019, IEICE Honorary Member.
- 2018, JSSST Fundamental Research Award. "Research on Autonomous Agents and Multiagent Systems."
- 2017, IEICE Distinguished Achievement and Contributions Award.
- 2016, International Conference on Collaboration Technologies (CollabTech) Best Paper Award. Xun Cao, Naomi Yamashita and Toru Ishida. How Non-Native Speakers Perceive Listening Comprehension Problems: Implications for Adaptive Support Technologies.
- 2015, 12th IEEE International Conference on Services Computing (SCC) Best Paper Award. Mai Xuan Trang, Yohei Murakami, Toru Ishida. Policy-Aware Optimization of Parallel Execution of Composite Services.
- 2014, Distinguished Professor of Science, Hong Kong Baptist University.
- 2013, IEICE Achievement Award. Toru Ishida, Yohei Murakami, Donghui Lin. "Research and Development of Language Grid: A Multilingual Service Infrastructure on the Internet."
- 2012, JSAI Achievement Award.
- 2010, Autonomous Agents and Multi Agent Systems Influential Paper Award. Makoto Yokoo, Edmund H. Durfee, Toru Ishida, and Kazuhiro Kuwabara. The Distributed Constraint Satisfaction Problem: Formalization and Algorithms.
- 2008, IEICE Fellow. "Contributions to Empirical Research on Digital Cities."
- 2006, The Commendation for Science and Technology by the Minister of Education, Culture, Sports, Science and Technology (Research Category). Toru Ishida, Hideyuki Nakanishi. "Research on Virtual City Space Construction Methods in Digital Cities."
- 2005, IPSJ Fellow. "Contributions to Research on Autonomous Agents and Multiagent Systems."
- 2005, The 20th Telecommunications Advancement Foundation Award (Telecom System Technology Award).
- 2002, IEEE Fellow. For Contributions to Autonomous Agents and Multiagent Systems.
- 1996, JSAI 10th Anniversary Paper Award. Toru Ishida, Masashi Shimbo. "Path Learning by Real-Time Search."
- 1992, JSAI Paper Award. Toru Ishida, Les Gasser, Makoto Yokoo. "Real-Time Continuous Problem Solving by Agent Organization."
- 1991, JSAI Annual Conference Outstanding Paper Award. Toru Ishida, Yutaka Sasaki, Yoshimi Fukuhara. "Control of Production Systems Using Procedural Programming Languages."

SELECTED PUBLICATIONS

Books

- Yohei Murakami, Donghui Lin and Toru Ishida Eds. Services Computing for Language Resources, Springer, 2018.

- Toru Ishida Ed. Field Informatics. Kyoto University Field Informatics Research Group. Springer, 2012.
- Toru Ishida Ed. The Language Grid: Service-Oriented Collective Intelligence for Language Resource Interoperability. Springer, 2011.
- Toru Ishida Ed. Culture and Computing: Computing and Communication for Cross-cultural Interaction. Lecture Notes in Computer Science, 6259, Springer-Verlag, 2010.
- Toru Ishida, Susan R. Fussell and Piek TJM Vossen Eds. Intercultural Collaboration, Lecture Notes in Computer Science, 4568, Springer-Verlag, 2007.
- Toru Ishida, Les Gasser and Hideyuki Nakashima Eds. Massively Multi-Agent Systems I. Lecture Notes in Artificial Intelligence, 3446, Springer-Verlag, 2005.
- Makoto Tanabe, Peter van den Besselaar and Toru Ishida Eds. Digital Cities II: Computational and Sociological Approaches. Lecture Notes in Computer Science, State-of-the-Art Survey, 2362, Springer-Verlag, 2002.
- Toru Ishida and Katherine Isbister Eds. Digital Cities: Experiences, Technologies and Future Perspectives. Lecture Notes in Computer Science, State-of-the-Art Survey, 1765, Springer-Verlag, 2000.
- Toru Ishida Ed. Community Computing and Support Systems. Lecture Notes in Computer Science, State-of-the-Art Survey, 1519, Springer-Verlag, 1998. ISBN 3540654755.
- Toru Ishida Ed. Community Computing: Collaboration over Global Information Networks. John Wiley and Sons, 1998.
- Toru Ishida. Real-Time Search for Learning Autonomous Agents. Kluwer Academic Publishers, 1997.
- Toru Ishida. Parallel, Distributed and Multiagent Production Systems. Lecture Notes in Artificial Intelligence 878, Springer-Verlag, 1994. ISBN 0387586989.

Journal Articles

- Kemas Muslim Lhaksmana, Aditya Firman Ihsan, Toru Ishida, Rikman Aherliwan Rudawan, Periyadi, Iis Kurnia Nurhayati and Andy Maulana Yusuf. A Comparative Study of LLM Supported Learning Across Diverse Computing Courses. Submitted to Education and Information Technologies, 2026.
- Toru Ishida, Tongxi Liu, Hailong Wang and William K. Cheung. Large Language Models as Partners in Student Essay Evaluation. arXiv:2405.18632, 2024.
- Xin Zhou, Yohei Murakami, Toru Ishida, Xuanzhe Liu and Gang Huang. ARM: Towards Adaptive and Robust Model for Reputation Aggregation. IEEE Transactions on Automation Science and Engineering, Vol. 17, No. 1, pp. 88-99, 2020.
- Toru Ishida, Yohei Murakami, Donghui Lin, Takao Nakaguchi and Masayuki Otani. Language Service Infrastructure on the Web: The Language Grid. IEEE Computer, Vol. 51, Issues 6, pp. 72-81, 2018.
- Mai Xuan Trang, Yohei Murakami and Toru Ishida. Policy-Aware Service Composition:

Predicting Parallel Execution Performance of Composite Services. *IEEE Transactions on Services Computing*, Vol. 11, No. 4, pp. 602-615, 2018.

- Arbi Haza Nasution, Yohei Murakami, Toru Ishida. A Generalized Constraint Approach to Bilingual Dictionary Induction for Low-Resource Language Families. *ACM Transactions on Asian and Low-Resource Language Information Processing*, Vol. 17, No. 2, Article 9, pp. 1-12 2018.
- Toru Ishida, Tetsuo Sawaragi, Kumiyo Nakakoji and Takushi Sogo. Interdisciplinary Education for Design Innovation. *IEEE Computer*, Vol. 50, No. 5, pp. 44-52, 2017.
- Kemas Muslim Lhaksmana, Yohei Murakami and Toru Ishida. Analysis of Large-Scale Service Network Tolerance to Cascading Failure. *IEEE Internet of Things Journal*, Volume: 3, Issue: 6, pp. 1159-1170, 2016.
- Mairidan Wushouer, Donghui Lin, Toru Ishida, and Katsutoshi Hirayama. A Constraint Approach to Pivot-based Bilingual Dictionary Induction. *ACM Transactions on Asian and Low-Resource Language Information Processing*, Vol. 15, No. 1, Article 4, 2016.
- Hiromitsu Hattori, Yuu Nakajima and Toru Ishida. Learning from Humans: Agent Modeling with Individual Human Behaviors. *IEEE Transactions on Systems, Man, and Cybernetics, Part A: Systems and Humans*, Vol. 41, No. 1, pp. 1-9, 2011.
- Toru Ishida. Intercultural Collaboration Using Machine Translation. *IEEE Internet Computing*, pp. 26–28, 2010.
- Makoto Nakatsuji, Makoto Yoshida and Toru Ishida. Detecting Innovative Topics based on User-Interest Ontology. *Journal of Web Semantics*, Vol. 7, No. 2, pp. 107-120, 2009.
- Yue Suo, Naoki Miyata, Hiroki Morikawa, Toru Ishida and Yuanchun Shi. Open Smart Classroom: Extensible and Scalable Learning System in Smart Space using Web Service Technology. *IEEE Transactions on Knowledge and Data Engineering*, Vol. 21, No. 6, pp. 814-828, 2009.
- Satoshi Oyama, Takashi Kokubo and Toru Ishida. Domain Specific Search with Keyword Spices. *IEEE Transactions on Knowledge and Data Engineering*, Vol. 16, No. 1, pp. 17-27, 2004.
- Masashi Shimbo and Toru Ishida. Controlling the Learning Process of Real-time Heuristic Search. *Artificial Intelligence*. Vol. 146, Issue 1, pp. 1-41, 2003.
- Toru Ishida. Q: A Scenario Description Language for Interactive Agents. *IEEE Computer*, Vol. 35, No. 11, pp. 54-59, 2002.
- Toru Ishida. Digital City Kyoto: Social Information Infrastructure for Everyday Life. *Communications of the ACM (CACM)*, Vol. 45, No. 7, pp. 76-81, 2002.
- Takushi Sogo, Hiroshi Ishiguro and Toru Ishida. Acquisition and Propagation of Spatial Constraints Based on Qualitative Information. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, Vol. 23, No. 3, pp. 268-278, 2001.
- Hideyuki Nakanishi, Chikara Yoshida, Toshikazu Nishimura and Toru Ishida. FreeWalk: A 3D Virtual Space for Casual Meetings. *IEEE Multimedia*, Vol. 6, No. 2, pp. 20-28, 1999.
- Makoto Yokoo, Edmund H. Durfee, Toru Ishida, and Kazuhiro Kuwabara. The Distributed Constraint Satisfaction Problem: Formalization and Algorithms. *IEEE Transactions on*

- Knowledge and Data Engineering. Vol. 10, No. 5, pp. 673-685, 1998.
- Toru Ishida. Real-Time Search for Autonomous Agents and Multi-Agent Systems, Journal of Autonomous Agents and Multi-Agent Systems. Kluwer Academic Publishers, Vol. 1, pp. 139-167, 1998.
 - Yoshiyasu Nishibe, Hiroaki Waki, Ichiro Morihara, Fumio Hattori, Toru Ishida, Toshikazu Nishimura, Hirofumi Yamaki, Takaaki Komura, Nobuyasu Itoh, Tadahiro Gotoh, Toyoaki Nishida, Hideaki Takeda, Atsushi Sawada, Harumi Maeda, Masao Kajihara, Hidekazu Adachi, Mobile Digital Assistants for Community Support. AI Magazine, Vol. 19, No. 2, pp. 31-49, 1998.
 - Toru Ishida. Real-Time Bidirectional Search: Coordinated Problem Solving in Uncertain Situations. IEEE Transactions on Pattern Analysis and Machine Intelligence, Vol. 18, No. 6, pp. 617-628, 1996.
 - Toru Ishida and Richard E. Korf. Moving-Target Search: A Real-Time Search for Changing Goals. IEEE Transactions on Pattern Analysis and Machine Intelligence, Vol. 17, No. 6, pp. 609-619, 1995.
 - Toru Ishida, Yutaka Sasaki, Keiko Nakata and Yoshimi Fukuhara. A Meta-Level Control Architecture for Production Systems. IEEE Transactions on Knowledge and Data Engineering, Vol. 7, No. 1, pp. 44-52, 1995.
 - Toru Ishida. An Optimization Algorithm for Production Systems. IEEE Transactions on Knowledge and Data Engineering, Vol. 6, No. 4, pp. 549-558, 1994.
 - Toru Ishida, Les Gasser and Makoto Yokoo. Organization Self-Design of Distributed Production Systems. IEEE Transactions on Knowledge and Data Engineering, Vol. 4, No. 2, pp. 123-134, 1992.
 - Toru Ishida. Parallel Firing of Production System Programs. IEEE Transactions on Knowledge and Data Engineering, Vol. 3, No. 1, pp. 11-17, 1991.
 - Sadahiro Isoda, Yoshizumi Kobayashi and Toru Ishida. Global Compaction of Horizontal Microprograms Based on the Generalized Data Dependency Graph. IEEE Transactions on Computer, Vol. C-32, pp. 922-933, 1983.

Conference Papers

- Toru Ishida, Yohei Murakami and Arif Bramantoro. Impact of Large Language Models on Conversational Translation: Towards Translation Agents. International Conference on Applied Computational Intelligence in Information Systems (ACIIS 2025), invited paper, October 28, 2025.
- Toru Ishida, Yohei Murakami, Donghui Lin, and Kemas Muslim Lhaksmana. AI Agents: From Concept to Code to Commerce – A Survey Bridging AAMAS and LLMs. International Conference on Information and Communication Technology (IColCT 2025), pp. 1-7, invited paper, 2025.
- Toru Ishida, Tongxi Liu, Hailong Wang and William K. Cheung. Facilitating Holistic

Evaluations with LLMs: Insights from Scenario-Based Experiments. arXiv:2405.17728, Accepted by The 32nd International Conference on Computers in Education (ICCE 2024), 2024.

- Wikipedia Good Articles. The 22nd International Conference on Human-Computer Interaction (HCI 2020), 2020.
- Mondheera Pituxcoosuvann, Takao Nakaguchi, Donghui Lin, Toru Ishida. Secure Agents for Supporting Best-Balanced Multilingual Communication. The 22nd International Conference on Human-Computer Interaction (HCI 2020), 2020.
- Donghui Lin, Yohei Murakami and Toru Ishida. A Framework for Multi-Language Service Design with the Language Grid. International Conference on Language Resources and Evaluation Conference (LREC 2018), Miyazaki, Japan, 2018.
- Xun Cao, Naomi Yamashita and Toru Ishida. Investigating the Impact of Automated Transcripts on Non-Native Speakers' Listening Comprehension. ACM International Conference on Multimodal Interaction (ICMI 2016), Tokyo, 2016.
- Shinsuke Goto, Toru Ishida and Donghui Lin. Understanding Crowdsourcing Workflow: Modeling and Optimizing Iterative and Parallel Processes. AAAI Conference on Human Computation and Crowdsourcing (AAAI HCOMP 2016), Austin, USA, 2016.
- Mai Xuan Trang, Yohei Murakami, Toru Ishida. Policy-Aware Optimization of Parallel Execution of Composite Services. IEEE 12th International Conference on Services Computing (SCC 2015), New York, USA, 2015.
- Naomi Yamashita, Andy Echenique, Toru Ishida and Ari Hautasaari. Lost in Transmittance: How Transmission Lag Enhances and Deteriorates Multilingual Collaboration. International Conference on Computer Supported Cooperative Work (CSCW-13), pp. 923-934, 2013.
- Chunqi Shi, Donghui Lin and Toru Ishida. Agent Metaphor for Machine Translation Mediated Communication. International Conference on Intelligent User Interfaces (IUI-13), March 19-23, pp. 67-74, 2013.
- Jun Matsuno and Toru Ishida. Constraint Optimization Approach to Context Based Word Selection. International Joint Conference on Artificial Intelligence (IJCAI-11), pp. 1846-1851, 2011.
- Makoto Nakatsuji, Yasuhiro Fujiwara, Akimichi Tanaka, Toshio Uchiyama, Ko Fujimura and Toru Ishida. Classical Music for Rock Fans? Novel Recommendations for Expanding User Interests. ACM Conference on Information and Knowledge Management (CIKM-10), pp.949-958, 2010.
- Makoto Nakatsuji, Yasuhiro Fujiwara, Akimichi Tanaka, Tadasu Uchiyama and Toru Ishida. Recommendations over Domain Specific User Graphs. European Conference on Artificial Intelligence (ECAI-10), pp. 607-612, 2010.
- Toru Ishida. The Language Grid for Intercultural Collaboration. Web Science Conference (WebSci-10), 2010.
- Rie Tanaka, Yohei Murakami and Toru Ishida. Context-Based Approach for Pivot Translation Services. International Joint Conference on Artificial Intelligence (IJCAI-09),

pp. 1555-1561, 2009.

- Naomi Yamashita, Reiko Inaba, Hideaki Kuzuoka and Toru Ishida. Difficulties in Establishing Common Ground in Multiparty Groups using Machine Translation. International Conference on Human Factors in Computing Systems (CHI-09), pp. 679-688, 2009.
- Cho Heeryon, Toru Ishida, Toshiyuki Takasaki and Satoshi Oyama. Assisting Pictogram Selection with Semantic Interpretation. European Semantic Web Conference (ESWC-08), LNCS 5021, pp. 65–79, 2008.
- Yichuan Jiang and Toru Ishida. A Model for Collective Strategy Diffusion in Agent Social Law Evolution. International Joint Conference on Artificial Intelligence (IJCAI-07), pp. 1353-1358, 2007.
- Toru Ishida, Yuu Nakajima, Yohei Murakami and Hideyuki Nakanishi. Augmented Experiment: Participatory Design with Multiagent Simulation. International Joint Conference on Artificial Intelligence (IJCAI-07), pp. 1341-1346, 2007.
- Ahlem Ben Hassine, Matsubara Shigeo and Toru Ishida. Constraint-based Approach for Web Service Composition. International Semantic Web Conference (ISWC-06), Lecture Notes in Computer Science 4273, Springer-Verlag, pp. 130-143, 2006.
- Daisuke Torii, Toru Ishida and Francois Bousquet. Modeling Agents and Interactions in Agricultural Economics. International Joint Conference on Autonomous Agents and Multiagent Systems (AAMAS-06), pp. 81-88, 2006.
- Naomi Yamashita and Toru Ishida. Automatic Prediction of Misconceptions in Multilingual Computer-Mediated Communication. International Conference on Intelligent User Interfaces (IUI-06), pp.62-69, 2006.
- Naomi Yamashita and Toru Ishida. Effects of Machine Translation on Collaborative Work. International Conference on Computer Supported Cooperative Work (CSCW-06), pp. 515-523, 2006.
- Yohei Murakami, Yuki Sugimoto and Toru Ishida. Modeling Human Behavior for Virtual Training Systems. National Conference on Artificial Intelligence (AAAI-05), pp. 127-132, 2005.
- Takeru Miki, Saeko Nomura, Toru Ishida. Semantic Web Link Analysis to Discover Social Relationships in Academic Communities. International Semantic Web Conference (ISWC-04), Poster Session, 2004.
- Hideyuki Nakanishi, Satoshi Koizumi, Toru Ishida and Hideaki Ito. Transcendent Communication: Location-Based Guidance for Large-Scale Public Spaces. International Conference on Human Factors in Computing Systems (CHI-04), pp. 655-662, 2004.
- Hideyuki Nakanishi, Satoshi Nakazawa, Toru Ishida, Katsuya Takanashi and Katherine Isbister. Can Software Agents Influence Human Relations? Balance Theory in Agent-mediated Communities. International Joint Conference on Autonomous Agents and Multiagent Systems (AAMAS-03), pp. 717-724, 2003.
- Satoshi Oyama, Takashi Kokubo, Teruhiro Yamada, Yasuhiko Kitamura and Toru Ishida. Keyword Spices: A New Method for Building Domain-Specific Web Search Engines.

- International Joint Conference on Artificial Intelligence (IJCAI-01), pp. 1457-1463, 2001.
- Takayuki Kanda, Hiroshi Ishiguro, and Toru Ishida. Psychological analysis on human-robot interaction. IEEE International Conference on Robotics and Automation (ICRA-01), pp.4166-4173, 2001.
 - Katherine Isbister, Hideyuki Nakanishi, Toru Ishida and Cliff Nass. Helper Agent: Designing an Assistant for Human-Human Interaction in a Virtual Meeting Space. International Conference on Human Factors in Computing Systems (CHI-00), pp. 57-64, 2000.
 - Masashi Shimbo and Toru Ishida. Towards Real-Time Search with Inadmissible Heuristics. European Conference on Artificial Intelligence (ECAI-00), IOS Press/Ohmsha, pp. 609-613, 2000.
 - Takayuki Yoshizumi, Teruhisa Miura and Toru Ishida. A* with Partial Expansion for Large Branching Factor Problems. National Conference on Artificial Intelligence (AAAI-00), pp. 923-929, 2000.
 - Yutaka Yamauchi, Makoto Yokozawa, Takeshi Shinohara and Toru Ishida. Collaboration with Lean Media: How Open-Source Software Succeeds. International Conference on Computer Supported Cooperative Work (CSCW-00), pp. 329-338, 2000.
 - Hiroshi Ishiguro, Masatoshi Kamiharako and Toru Ishida. State Space Construction by Attention Control. International Joint Conference on Artificial Intelligence (IJCAI-99), pp. 1131-1137, 1999.
 - Takushi Sogo, Hiroshi Ishiguro and Toru Ishida. Acquisition of Qualitative Spatial Representation by Visual Observation. International Joint Conference on Artificial Intelligence (IJCAI-99), pp. 1054-1060, 1999.
 - Teruhisa Miura and Toru Ishida. Stochastic Node Caching for Memory-Bounded Search. National Conference on Artificial Intelligence (AAAI-98), pp. 450-456, 1998.
 - Hirofumi Yamaki, Yutaka Yamauchi and Toru Ishida. Implementation Issues on Market-Based QoS Control. International Conference on Multi-Agent Systems (ICMAS-98), pp. 357-364, 1998.
 - Hirofumi Yamaki, Michael P. Wellman and Toru Ishida. A Market-Based Approach to Allocating QoS for Multimedia Applications. International Conference on Multi-Agent Systems (ICMAS-96), pp. 385-392, 1996.
 - Hideyuki Nakanishi, Chikara Yoshida, Toshikazu Nishimura and Toru Ishida. FreeWalk: Supporting Casual Meetings in a Network. International Conference on Computer Supported Cooperative Work (CSCW-96), pp. 308-314, 1996.
 - Toru Ishida and Masashi Shimbo. Improving the Learning Efficiencies of Realtime Search. National Conference on Artificial Intelligence (AAAI-96), pp. 305-310, 1996.
 - Toru Ishida. Two is not Always Better than One: Experiences in Real-Time Bidirectional Search. International Conference on Multi-Agent Systems (ICMAS-95), pp. 185-192, 1995.
 - Shigeo Matsubara and Toru Ishida. Real-Time Planning by Interleaving Real-Time Search with Subgoalting. International Conference on Artificial Intelligence Planning Systems

(AIPS-94), pp. 122-127, 1994.

- Makoto Yokoo, Toru Ishida, Edmund H. Durfee and Kazuhiro Kuwabara. Distributed Constraint Satisfaction for Formalizing Distributed Problem Solving. 12th International Conference on Distributed Computing Systems (ICDCS-92), pp. 614-621, 1992.
- Toru Ishida and Richard Korf. Moving Target Search. International Joint Conference on Artificial Intelligence (IJCAI-91), pp. 204-210, 1991.
- Les Gasser and Toru Ishida. A Dynamic Organizational Architecture for Adaptive Problem Solving. National Conference on Artificial Intelligence (AAAI-91), pp. 185-190, 1991.
- Toru Ishida, Makoto Yokoo and Les Gasser. An Organizational Approach to Adaptive Production Systems. National Conference on Artificial Intelligence (AAAI-90), pp. 52-58, 1990.
- Makoto Yokoo, Toru Ishida and Kazuhiro Kuwabara. Distributed Constraint Satisfaction for DAI Problems. Tenth International Workshop on Distributed Artificial Intelligence (DAIWS-90), Chapter 18, 1990.
- Toru Ishida. CoCo: A Multi-Agent System for Concurrent and Cooperative Operation Tasks. Ninth International Workshop on Distributed Artificial Intelligence (DAIWS-89), pp. 197-213, 1989.
- Toru Ishida. Optimizing Rules in Production System Programs. National Conference on Artificial Intelligence (AAAI-88), pp. 699-704, 1988.
- Ichiro Morihara, Toru Ishida and Hiroyuki Furuya. Rule-Based Flexible Control of Tutoring Process in Scene-Oriented CAI Systems. IEEE Conference on Artificial Intelligence Applications (CAIA-87), pp. 207-212, 1987.
- Toru Ishida and Salvatore J. Stolfo. Towards Parallel Execution of Rules in Production System Programs. International Conference on Parallel Processing (ICPP-85), pp. 568-575, 1985.