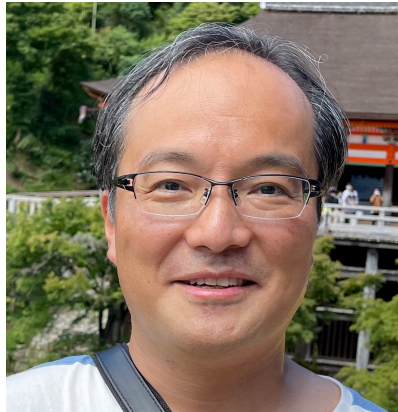


CURRICULUM VITAE



Takayuki Ito

Doctor of Engineering

Professor,
Department of Social Informatics,
Graduate School of Informatics,
Kyoto University, Japan

Personal Information

NAME: Takayuki ITO

DATE OF BIRTH: May 1st, 1972

CONTACTING ADDRESS:

Professor Takayuki Ito, Ph.D.
Department of Social Informatics,
Kyoto University,
Yoshida-Honmachi, Kyoto 606-8501, Japan.

TEL: +81-75-753-4821 (Direct)

FAX: +81-75-753-4820 (Direct)

E-Mail: ito at i.kyoto-u.ac.jp

EDUCATIONAL HISTORY:

Nagoya Institute of Technology

Graduate School of Engineering, Ph.D (Doctor of Engineering), 2000.

Nagoya Institute of Technology

Graduate School of Engineering, Master of Engineering, 1997.

Nagoya Institute of Technology

Dept. of Intelligence & Computer Science, Bachelor of Engineering, 1995

PROFESSIONAL EXPERIENCE

Full Professor, Oct/2020 – current

Department of Social Informatics, Graduate School of informatics,

Kyoto University

Full Professor, Apr/2014 – Sep/ 2020

Department of Computer Science, School of Techno-Business Administration,

Nagoya Institute of Technology (NIT)

Visiting Scientist, Sept/2008 – Aug/2010

Dr. Mark Klein's group

Center for Collective Intelligence, Sloan School of Management

Massachusetts Institute of Technology (MIT)

Associate Professor, Apr/2006 – Mar/2014

Department of Computer Science, School of Techno-Business Administration,

Nagoya Institute of Technology (NIT)

Part-time Researcher, Apr/2008 – Present

TOYOTA Physical and Chemical Research Institute

Visiting Scientist, Sep/2005 – Feb/2006

Dr. Mark Klein's group

Center for Coordination Science, Sloan School of Management,

Massachusetts Institute of Technology (MIT)

Visiting Scholar, Mar/2005- Feb/2006

Prof. David C. Parkes group,

Division of Engineering and Applied Science (DEAS),

Faculty of Art and Science (FAS),

Harvard University

Associate Professor, Apr/2003 – March/2006

Department of Computer Science, Graduate School of Computer Science,

Nagoya Institute of Technology (NIT)

Associate Professor, Apl/2001 - Mar/2003

Center for Knowledge Science,

Japan Advanced Institute of Science and Technology (JAIST)

Visiting Research Scientist, Apl/2000 - Jan/2001

Prof. Milind Tambe's group (TEAMCORE),

Information Sciences Institutes (ISI),

University of Southern California (USC)

Research Fellow, Jan/1999 - Mar/2001

The Japan Society for the Promotion of Science (JSPS)

PROGRAMMING SKILLS:

Python, Java, C++, Modern Javascript, AJAX, Lisp, Prolog, C, Tcl/Tk, Perl, Ruby, Ruby on Rails, shell scripts, VB, KLI(Klic), HyperCard, AppleScript.

RESEARCH GRANTS and SCHOLARSHIPS

Nov/2023-current:

“FureAI: An Implementation of An Elders’ Living Support System based on Social Conversational Agents and Smart Activity Monitoring”, 58,500,000 yen. SICORP(Strategic International Collaborative Research Program), Japan Science and Technology Agency. Principal Investigator. Collaborators: Shichao Liu (Carlton University) and Alan Roth (GRT Health, inc.)

Apl/2022-current:

“Multiagent Innovative Consensus Building Algorithms in Complex Negotiation Environments”, 39,520,000 yen. Grants-in-Aid for Scientific Research of the Japan Society for the Promotion of Science, Type: Scientific Research (A). Principal Investigator.

Dec/2020-current:

“HyperDemocracy : Large-scale Consensus Support Platform based on Social Multiagent Systems”, 331,000,000 yen. CREST (Core Research for Evolutionary Science and Technology), Japan Science and Technology Agency. Principal Investigator.

Oct/2015-Mar/2021:

“Innovating Agent-based Large-scale Consensus Support Systems”, 280,000,000 yen. CREST (Core Research for Evolutionary Science and Technology), Japan Science and Technology Agency. Principal Investigator.

Apr/2015-Mar/2018:

“Multiagent Automated Negotiation Theories and their Evaluations”, 33,500,000 yen. Grants-in-Aid for Scientific Research of the Japan Society for the Promotion of Science, Type: Scientific Research (A). Principal Investigator.

Apr/2014- Mar/2016 (will be extended 2 more years):

“Mitigation of Traffic Congestion based on Multiagent Future Traffic Prediction”, 40,000,000 yen, Researches on Applications that utilize Social Big Data, Research and Development on Utilization and Infrastructure of Social Big Data, NICT (National Institute of Communication and Technology),

Feb/2011 – Mar/2014:

“Innovating Society Optimization Algorithms that Enable Environmental Society Optimization Simulations, and their

Applications”, 152,100,000 yen (=1,950,000USD) FUNDING PROGRAM FOR NEXT GENERATION WORLD-LEADING RESEARCHERS by the Japanese Cabinet Office.

Oct/2009 – Mar/2011:

“Collective Collaboration Support Systems based on Multi-Agent Negotiation and Cooperation”, 39,800,000 yen. PREST (proposal-oriented research promotion program), Japan Science and Technology Agency (JST), Super Challenging Type (11/1680 applications).

Sep/2008 – Aug/2009:

About 3,000,000 yen: Universities Internationalization Promotion Program, Foreign Advanced Education Research Practice Support Program, The Ministry of Education, Culture, Sports, Science and Technology of Japan.

Apl/2008 – Mar/2013:

“Establishing Mechanism Design Theory for Information Network Economics”, 38,100,000 yen. Grants-in-Aid for Scientific Research of the Japan Society for the Promotion of Science, Type: Scientific Research (A). Co-PI. PI: Professor Makoto Yokoo.

Apl/2008 – Mar/2011:

“An Implementation of the next generation electronic market based on Electronic Mechanism Design Theory”, 2,500,000 yen, International Communication Foundation (sponsored by KDDI).

Apl/2008 – Mar/2009:

“An Implementation of the next generation electronic market based on Electronic Mechanism Design Theory”, 1,000,000 yen, Artificial Intelligence Research Promotion Foundation.

Apl/2008 – Mar/2009:

“Ensuring Building Technologies for Practical Electronic Markets & Electronic Mechanisms based on Computational Mechanism Design Theory”, 1,000,000 yen, Nakashima Special International Communication Foundation.

Apl/2006 – Mar/2010:

“Design and Implementation of e-Business Support Systems based on Computational Mechanism Design”, 15,400,000 yen. Grants-in-Aid for Scientific Research of the Japan Society for the Promotion of Science, Type: Scientific Research (B).

Apl/2006 – Mar/2007:

“Research Survey on Design of Market / Trading Mechanisms for Information Goods”, 3,400,000 yen. Grants-in-Aid for Scientific Research of the Japan Society for the Promotion of Science, Type: Scientific Research (C).

Apl/2005 – Mar/2009:

“Design and Implementation of Electronic Commerce Mechanisms based on Software Agents”, 15,400,000 yen. Grants-in-Aid for Scientific Research of the Japan Society for the Promotion of Science, Type: Scientific Research (B).

Apl/2005 - Mar/2006:

“Constructing Robust Auction Protocols that avoid Frauds”, 1,000,000 yen. Grants of The Hori Information Science Promotion Foundation.

Mar/2004 – Feb/2005:

About 4,000,000 yen: Foreign Advanced Education Research Practice Support Program, The Ministry of Education, Culture, Sports, Science and Technology of Japan.

Apl/2004 – Mar/2005:

“Multiagent Negotiation Mechanisms and their Applications for Ubiquitous Environments”, 3,000,000 yen, Internal Grants of Nagoya Institute of Technology.

Apl/2003 - Mar/2005:

“Cooperative Mechanisms among People and Software Agents for Electronic Commerce”, 3,400,000 yen, Grants-in-Aid for Scientific Research of the Ministry of Education, Culture, Sports, Science and Technology of Japan. Type: Yong Scientists (B).

Jul/2003 – Feb/2004:

“Research Development of An Information Sharing System based on Incentive Discovery”, 9,000,000 yen, Grants of the Information-technology Promotion Agency, Japan.

Jun/2003 – Mar/2004:

“Knowledge Discovery from Large Scale Text Database and its Utilization” 800,000 yen. Grants for Collaboration Research with INAX corporation.

July/2002 – Mar/2004:

“A Study on Internet Auctions”, 2,000,000 yen, Grants for Collaboration Research with Dr. Makoto Yokoo and Dr. Shigeo Matsubara from NTT Communication Sciences Laboratories.

Sep/2002:

120,000 yen. Grants for Publication of The Research Foundation for the Electro technology of Chubu(REFEC), Japan.

July/2002 - Mar/2003:

“Negotiation Mechanisms among Agents and their Applications for Electronic Commerce”, 910,000 yen, Internal Grants of Japan Advanced Institute of Science and Technology, Type: JSPS Fellows.

July/2002 – Mar/2003

“Group Activity Support Systems based on Awareness Communication Mechanisms and their Applications”, 1,934,000 yen, Internal Grants of Japan Advanced Institute of Science and Technology

May/2002:

250,000 yen, Grants of travel expense of the Ogasawara Science and Technology Promotion Foundation,

Apl/2001 - Mar/2002:

“Cooperative Mechanisms among Agents for WWW-based Electronic Commerce and their Applications”, 3,000,000 yen, Grants-in-Aid for Scientific Research of the Ministry of Education, Science, Sports and Culture of Japan

Apl/1999 - Mar/2001:

“Cooperative Protocols and their Applications in Multi Agent Systems”, 1,800,000 yen, Grants-in-Aid for Scientific Research of the Ministry of Education, Science, Sports and Culture of Japan

Apl/1999 - Mar/2000:

1,500,000 yen. Grants of The Hori Information Science Promotion Foundation.

May/1999:

50,000 yen. Grants for Presentation of The Tokai Regional Section the Institute of Electronics, Information and Communication Engineers (IEICE).

Oct/1998:

170,000 yen. Grants for Travel Expense of The Telecommunications Advancement Foundation(TAF), Japan.

Sep/1998:

40,000 yen. Grants for Publication of The Research Foundation for the Electro technology of Chubu(REFEC), Japan.

Sep/1997:

80,000 yen. Grants for Publication of The Research Foundation for the Electro technology of Chubu(REFEC), Japan.

Apl/1996 - Dec/1998:

About 3,000,000 yen. Scholarship Grant of The Japan Scholarship Foundation.

Awards

- JSAI Contribution Award 2020.6.21
- Best Paper Award:The 15th International Conference on Knowledge, Information and Creativity Support Systems (KICSS 2020)
 - Jawad Haqbeen, Takayuki Ito, Sofia Sahab, Rafik Hadfi, Takumi Sato and Shun Okuhara, Meeting the SDGs: Enabling the Goals by Cooperation with Crowd using Conversational AI Platform, The Twelfth 2020 International Conference on Knowledge, Information and Creativity Support Systems (KICSS2020), 2020.
- Outstanding Paper Award, nternational Journal of Crowd Science.2020
 - Takayuki Ito, Takanobu Otsuka, Satoshi Kawase, Akihisa Sengoku, Shun Shiramatsu, Takanori Ito, Eizo Hideshima, Tokuro Matsuo, Tetsuya Oishi, Rieko Fujita, Naoki Fukuta, Katsuhide Fujita, Experimental results on large-scale cyber-physical hybrid discussion support, International Journal of Crowd Science.2020.10.16.

- Best Paper Award, The 16th Pacific International Conference on Artificial Intelligence (PRICAI 2019)
 - Ryuta Arisaka and Takayuki Ito, Semantics of Opinion Transitions in Multi-Agent Forum Argumentation, 2019 The 16th Pacific International Conference on Artificial Intelligence (PRICAI 2019), August 26-30, 2019, Yanuca Island, Fiji. (accepted)(Best Paper Award)
- Best Student Paper Award, IJCAI 2019 Workshop on Smart Simulation and Modelling for Complex Systems (SSMCS)
 - Wen Gu, Ahmed Moustafa, Takayuki Ito, Minjie Zhang and Chunsheng Yang, “Discussion Case Base Simulation for Case-based Reasoning based Online Discussion Facilitation”, IJCAI 2019 Workshop on Smart Simulation and Modelling for Complex Systems (SSMCS), 2019 (Accepted). Best Student Paper Award.
- Best Paper Award, 20th IEEE/ACIS International Conference on Software Engineering, Artificial Intelligence, Networking and Parallel/Distributed Computing (SNPD 2019)
 - Shun Okuhara, Takayuki Ito, A Negotiation Strategy based on Compromising Degree, 20th IEEE/ACIS International Conference on Software Engineering, Artificial Intelligence, Networking and Parallel/Distributed Computing (SNPD 2019), July 8-10, 2019, Toyama, Japan (Accepted, Best Paper Award).
- Best Paper Award, IJCAI 2019 Workshop on Agent-based Complex Automated Negotiations (ACAN), 2019
 - Ryuta Arisaka and Takayuki Ito, Numerical Abstract Persuasion Argumentation for Expressing Concurrent Multi-Agent Negotiations, IJCAI 2019 Workshop on Agent-based Complex Automated Negotiations (ACAN), 2019 (Accepted)(Best Paper Award).
- Best Paper Award, The 12th International Conference on Knowledge, Information and Creativity Support Systems (KICSS 2017)
 - Ryoji Horita, Minoru Mitsui, Takayuki Ito, Shun Shiramatsu, Akihisa Sengoku, Katsuhide Fujita and Naoki Fukuta, A Design of Research Group Workshop to Generate Co-Creation Between Researchers and Citizens, The 12th International Conference on Knowledge, Information

and Creativity Support Systems (KICSS 2017), Nagoya, Japan, Nov 9-11, 2017.

- Best Paper Award 2017, International Journal of Information Technology, Singapore Computer Society (SCS), Singapore. July 12, 2017.
 - Pankaj Mishra, Rafik Hadfi and Takayuki Ito, Role of Human Emotions in Social Influence, International Journal of Information Technology, Vol 22, No 02, 2016. (online)
- Best Paper Award, ICCSE2016 (International Conference on Crowd Science and Engineering)
 - Akihisa Sengoku, Takayuki Ito, Katsuhide Fujita, Shun Shiramatsu, Takanori Ito and Eizo Hideshima, "Towards Intelligent Crowd Decision Support: A Preliminary Result on Large-scale Discussion Support based on the Discussion Tree", International Conference on Crowd Science and Engineering (ICCSE2016), Vancouver, Canada, July 27-30, 2016.
- 2015 Japan Society of Artificial Intelligence, Achievement Award. June 24, 2016.
- ITS Symposium Best Paper Award, Dec 4, 2014

- 2013 Fundamental Research Award, JSSST(Japan Society for Software Science and Technology), Sep. 8-10, 2014.
- IPSJ Specially Selected Paper March 10, 2014
 - Shantanu Chakraborty and Takayuki Ito, "Intelligent Resource Scheduling in Green Smart Grid Considering Uncertainties", Journal of Information Processing, Vol.22, No.2, IPSJ, 2014 (accepted).
- Special Award, Nagoya Institute of Technology, Japan. Feb. 12, 2014.
- JSPS Prize, Japan Society for the Promotion of Science, Feb. 10, 2014.
- Prizes for Science and Technology (Research Category), The Commndation for Science and Technology by the Minister of Education, Culture, Sports, Science and Technology
- Study on Automated Negotiation Mechanisms for Multi-Agent Systems and their Applications
- Excellent Teacher Award, Nagoya Institute of Technology, Japan. Jan 2013.
- FIT 2011 Best Paper Award

- Takuya Yoshimura, Yutaro Fujii, and Takayuki Ito, "Filtering based on Paul Graham's and Gray Robinson's method", FIT 2011.
- 2010 JSAI SIG Research Award
 - Shogo Kawaguchi, Katsuhide Fujita, and Takayuki Ito, "Construction of the negotiation agent based on compromise strategy for international automated negotiation agent competition"
- Winner (The 1st Place) of the Automated Negotiating Agent Competition (ANAC2010) at AAMAS2010.
- Excellent Paper Award (JAWS2009) Oct. 29, 2009
 - Takayuki Ito and Mark Klein, "A Consensus Optimization Mechanism among Agents based on Genetic Algorithm for Multi-issue Negotiation Problems"
- Excellent Teacher Award, Nagoya Institute of Technology, Japan. Jan 2008.
- The Young Scientists' Prize, The Commndation for Science and Technology by the Minister of Education, Culture, Sports, Science and Technology.
 - Study on Negotiation Mechanism for Multi-Agent Systems.
- Information Processing Soceity of Japan, Nagao Special Researcher Award, 2007.
 - On Cooperation and Negotiation Mechanisms based on Computational Mechanism Design.
- Nominated for Best Paper Award (JAWS2006)
 - Hiromitsu Hattori, Takayuki Ito, and Mark Klein, A Bidding-Based Negotiation Protocol for Agents with Nonlinear Utility Functions, Joint Agent Workshops and Symposium 2006 (JAWS-2006), Suzuka, Japan, Oct. 25 - 27, 2006
- Best Paper Award, The 5th International Joint Conference on Autonomous Agents and Multi-Agent Systems.
 - **Takayuki Ito**, David Parkes, " Instantiating the Contingent Bids Model of Truthful Interdependent Value Auctions", In the Proceedings of the Fifth International Joint Conference on Autonomous Agents and Multi-Agent Systems (AAMAS2006), 2006.
- Selected as Best 5 Teachers (from about 300 faculty members), Nagoya Institute of Technology, Japan.

- Best Paper Award 2005, Journal of Japan Society for Software Science and Tecnology (JSSST).
 - **Takayuki Ito**, Makoto Yokoo, and Shigeo Matsubara, "The Design of an Auction Protocol under Asymmetric Information on Nature's Selection," Computer Software (The Journal of JSSST), Japan Society for Software Science and Technology (JSSST), Vol.20, No.1, pp.16-26, 2003. (IN JAPANESE)
- Super Creator Award of 2004 IPA Exploratory Software Creation Project.
- Best Paper Award of the 66th IPSJ National Convention (in top 10 papers that selected from 1,000 papers)
 - Atsushi Isomura, **Takayuki Ito**, Tadachika Ozono, and Toramatsu Shintani: "Implementation of re-schedulable nurse scheduling system based on Dynamic Valued Constraint Satisfaction Problem", In the Proceedings of the Sixty sixth Annual Conference of Information Processing Society of Japan (IPSJ) , Information Processing Society of Japan (IPSJ), Mar. 2004.
- Best Paper Award for Young Researcher of the 66th IPSJ National Convention x 6 (in top 10 younger researchers' papers that selected from 1,000 papers)
 - **Takayuki Ito** and Toramatsu Shintani, "A Frame Representation Description Method for Knowledge Representation Markup Language KRML and its application", 2004.
 - Noriharu Tashiro, Hiromitsu Hattori, **Takayuki Ito**, and Toramatsu Shintani: "The Framework of Additional Information Sharing on the Web page using Proxy Agent," In the Proceedings of the Sixty sixth Annual Conference of Information Processing Society of Japan (IPSJ) , Information Processing Society of Japan (IPSJ), Mar. 2004.
 - Yusuke Hiraoka, **Takayuki Ito**, and Toramatsu Shintani: "MiDoc, paper collection and share system with information mobility", In the Proceedings of the Sixty sixth Annual Conference of Information Processing Society of Japan (IPSJ) , Information Processing Society of Japan (IPSJ), Mar. 2004.

- Hiromitsu Hattori, Mariko Taga, Masaya Suzuki, **Takayuki Ito**, and Toramatsu Shintani: "iPlan: a Support System for Recording Plan Generation among Multi-users," In the Proceedings of the Sixty-sixth Annual Conference of Information Processing Society of Japan (IPSJ) , Information Processing Society of Japan (IPSJ), Mar. 2004.
- Toshihiro Yamaguchi, **Takayuki Ito**, and Toramatsu Shintani: "Web browser inspection support system which uses 3D drawing technology," In the Proceedings of the Sixty sixth Annual Conference of Information Processing Society of Japan (IPSJ), Information Processing Society of Japan (IPSJ),Mar.2004.
- Kentaro Nishi, Noriharu Tashiro, **Takayuki Ito**, and Toramatsu Shintani: "Simple web-page creation support system using web-browser", In the Proceedings of the Sixty sixth Annual Conference of Information Processing Society of Japan (IPSJ), Information Processing Society of Japan (IPSJ),Mar.2004.
- Nominated for Best Paper Award (top 5 papers were nominated from 129 accepted papers), The 16th International Conference on Industrial and Engineering Applications of Artificial Intelligence and Expert Systems (IEA/AIE-2004)
 - Ahelm Ben Hassine, **Takayuki Ito**, and Ho Tu Bao, "Scheduling Meetings with Distributed Local Consistency Reinforcement", In the Proceedings of the 16th International Conference on Industrial and Engineering Applications of Artificial Intelligence and Expert Systems (IEA/AIE-2004),pp.679-688, 2004.
- The Third Place in the world, RoboCup WorldCup 2001
 - Ranjit Nair, **Takayuki Ito**, Milind Tambe, and Stacy Marsella, Rescue-ISI-JAIST, Rescue Simulation League Robocup WorldCup 2001 Seattle, August 2001.
- Silver medal (The Second Place in the world), RoboCup in RoboFesta 2001
 - **Takayuki Ito**, Ranjit Nair, Milind Tambe, and Stacy Marsella, Rescue-JAIST-ISI, RoboCup Rescue Simulation League, RoboFesta'2001 International Robotic Games Festival, July 2001.

- Students Research Encouraging Award of The Tokai Regional Section of The Institute of Electronics, Information and Communication Engineers (IEICE) ,1997.

Awards (students)

- Presentation Award: The 16th International Conference on Knowledge, Information and Creativity Support Systems (KICSS 2021), 2021.11.24-25
 - Jawad Haqbeen, Sofia Sahab, Takayuki Ito, Facilitating Discussion on COVID-19 with Autonomous Facilitator: A Case Study on the Comparison of Expert Discussion versus the Public Paradigm Ratio of Reply for Agent Facilitation Post
- Best Student Paper Award: The 15th International Conference on Knowledge, Information and Creativity Support Systems (KICSS 2020)
 - Takumi Sato, Shun Okuhara and Takayuki Ito, Fully Automatic Classification of Open-ended Questionnaire, The Twelfth 2020 International Conference on Knowledge, Information and Creativity Support Systems (KICSS2020), 2020.
- Outstanding Student Paper Award: The 15th International Conference on Knowledge, Information and Creativity Support Systems (KICSS 2020)
- S oichiro Kuroyanagi, Shun Okuhara, Rafik Hadfi and Takayuki Ito, Recognizing Human Actions in Telework Environments using YOLOv5, The Twelfth 2020 International Conference on Knowledge, Information and Creativity Support Systems (KICSS2020), 2020.
- Best Presentation Award, KICSS2018, nov 15-17, 2018
 - (Best Presentation Award) Wen Gu, Ahmed Moustafa, Takayuki Ito, Minejie Zhang, Chunsheng Yang, “A Case-based Reasoning Approach for Automated Facilitation in Online Discussion Systems”, The Thirteenth International Conference on Knowledge, Information and Creativity Support Systems (KICSS-2018) November 15-17, 2018 Pattaya, Thailand (Accepted)
- Outstanding Paper Award, KICSS2018, nov 15-17, 2018

- (Outstanding Paper Award) Tomoya Fukui, Ahmed Moustafa, Takayuki Ito, “Jupiter: A Automated Negotiation Environment for Supporting Agents that Use Machine Learning”, The Thirteenth International Conference on Knowledge, Information and Creativity Support Systems (KICSS-2018) November 15-17, 2018 Pattaya, Thailand (Accepted)
- Winner of Social Welfare, PRIANAC2018, 2018.10.29
 - Agent33 by Shan Liu (Nagoya Institute of Technology, Japan)
- The Best Student Paper Award, The 12th International Conference on Knowledge, Information and Creativity Support Systems (KICSS 2017)
 - Tatsuya Toyama, Ahmed Moustafa and Takayuki Ito, On Measuring the Opposition Level Amongst Intelligent Agents in Multi-issue Closed Negotiation Scenarios, The 12th International Conference on Knowledge, Information and Creativity Support Systems (KICSS 2017), Nagoya, Japan, Nov 9-11, 2017.
- Outstanding Paper Award, The 12th International Conference on Knowledge, Information and Creativity Support Systems (KICSS 2017)
 - Xun Tang, Ahmed Moustafa and Takayuki Ito, An Ordering Mechanism for Automated Negotiation Among Nonlinear Utility Agents, The 12th International Conference on Knowledge, Information and Creativity Support Systems (KICSS 2017), Nagoya, Japan, Nov 9-11, 2017.
- IEEE Nagoya Region Student Award
 - Yuma Imi, Development of Large-scale Consensus Support System based on Online Facilitation and its Opinion Gathering in Nagoya-city
- Best Student Paper Award, IJCAI Workshop on SSMCS2013
 - Jun Takahashi, Ryoko Kanamori, and Takayuki Ito, Evaluation of Route Assignment Method with Anticipatory Stigmergy under Distributed Processing, IJCAI Workshop on SSMCS 2013.
- Students Presentation Award, International Workshop on Agent-based Complex Automated Negotiations (ACAN), 2011
 - Rafik Hedfi and Takayuki Ito Agreement among Agents based on Decisional Structures and its Application to Group Formation

- Students Research Encouraging Award of The Tokai Regional Section of The Institute of Electronics, Information and Communication Engineers (IEICE) ,2009.
 - Katsuhide Fujita, “Development of Consensus Mechanism in Multi-issue Negotiation Problems”
- Students Research Encouraging Award of The Tokai Regional Section of The Information Processing Society of Japan (IPSJ),2009.
 - Katsuhide Fujita, “Proposing Consensus Mechanisms in Multi-issue Negotiation Problems”
- The 24th TELECOM System Technology Award for Student
 - Katsuhide Fujita, Takayuki Ito, Hiromitsu Hattori, "Using Autonomous Threshold Adjustment to Enable Multi-Party Negotiations with Multiple Interdependent Issues," Computer Software (The Journal of JSSST), Japan Society for Software Science and Technology (JSSST),2008.
- IEEE Student Encouragement Award
 - Katsuhide Fujita, and Takayuki Ito, "A Proposal on A Negotiation Mechanism based on Distributed Mediators for Multi-Issue Negotiation Problems", The Tokai Regional Section of The Institute of Electronics, Information and Communication Engineers , 2009.
- Student Best Paper Award (JAWS2008)
 - Masao Kobayashi, Tetsushi Ando, and Takayuki Ito, "A Proposal on User Evaluation Methos in Electronic Commerce Networks", Japan Agent Workshop and Symposium (JAWS2008), 2008.
- Student Encouragement Award of the 70th IPSJ National Convention, March. 15, 2008
 - Mikito Kobayashi, Fumiaki Minami, Takayuki Ito and Satoshi Tojo, "An Implementation of Dress Recommendation System based on Concept Dictionary", The 70th IPSJ National Convention, March 15, 2008.
- Best Student Paper Award, Nov. 7, 2007.
 - Katsuhide Fujita and **Takayuki Ito**, "An Approach to Implementing A Threshold Adjusting Mechanism in Very Complex Negotiations: A Preliminary Result", In The Proceedings of The 2nd International

Conference on Knowledge, Information and Creativity Support Systems (KICSS277), 2007

- Young Researcher's Award, The 4th Forum on Information Technology (FIT), Information Processing Society of Japan
 - Tokuro MATSUO, Takayuki ITO, Toramatsu SHINTANI, "A Method of Detecting Shill Bidders based on a Comparison of Bidders' Utilities in Combinatorial Auctions", (IN JAPANESE)
- Student Encouraging Award of 66th IPSJ x 4
 - Kentaro Nishi, Tadachika Ozono, **Takayuki Ito**, and Toramatsu Shintani: "Implementation of Push Type Information Sharing Environment on Existing Web Page" In the Proceedings of the Sixty seventh Annual Conference of Information Processing Society of Japan (IPSJ), Information Processing Society of Japan (IPSJ), March, 2005.
 - Noriharu Tashiro, Tadachika Ozono, **Takayuki Ito**, and Toramatsu Shintani: "Web pages of Cooperative Editing using WFE, " In the Proceedings of the Sixty seventh Annual Conference of Information Processing Society of Japan (IPSJ) , 6Y-7, Information Processing Society of Japan (IPSJ), Mar. 2005.
 - Satoshi Watanabe, Tadachika Ozono, **Takayuki Ito**, and Toramatsu Shintani: "An Information Recommendation Using the Change of the Research Topics Based on Word Co-occurrence," In the Proceedings of the Sixty seventh Annual Conference of Information Processing Society of Japan (IPSJ), 1R-3, Information Processing Society of Japan (IPSJ), Mar. 2005.
 - Yuta Nagata, Tadachika Ozono, **Takayuki Ito**, and Toramatsu Shintani: "A method of Black List expansion based on Web structure for Web Filtering", Proc. of the 67th Annual Conference of Information Processing Society of Japan (IPSJ) , Tokyo, Japan, March 2005.
- The 20th TELECOM System Technology Award for Student (information: www.taf.or.jp)
 - Tokuro MTAUSO, **Takayuki ITO**: "A Group Integration Support System based on Buyers' Multiple Attribute Preferences in Substitute Goods Group Buyings", Transactions of The Institute of Electronics,

Information and Communication Engineers (IEICE), Vol. J86-D-I,
No.10, pp.762-772, Oct. 2003. (IN JAPANESE)

- Student Encouraging Award of 65th IPSJ x 3
 - Noriharu Tashiro, Hiromitsu Hattori, **Takayuki Ito**, and Toramatsu Shintani: "The Framework of Additional Information Sharing on the Web page using Proxy Agent,"In the Proceedings of the Sixty sixth Annual Conference of Information Processing Society of Japan (IPSJ) , Information Processing Society of Japan (IPSJ), Mar. 2004.
 - Yuta Nagata, **Takayuki Ito**, and Toramatsu Shintani: "Knowledge Market for Knowledge Sharing System based on Reputation",In the Proceedings of the Sixty sixth Annual Conference of Information Processing Society of Japan (IPSJ), Information Processing Society of Japan (IPSJ),Mar.2004.
 - Masaki HYODO, Tokuro MATSUO, **Takayuki ITO**, Susumu KUNIFUJI, "An Optimal Coalition Formation in Electronic Group Buying which established the Individual Reservation Prices",Proc. of the 66th Annual Conference of Information Processing Society of Japan (IPSJ) , Tokyo, Japan, March 2004 .
- Student Encouraging Award of 64th IPSJ
 - Ohguri Kazuhisa and **Takayuki Ito**, "A Location Information System based on Probabilistic Reasoning in a Group", Proceedings of the 65th Annual Conference of Information Processing Society of Japan (IPSJ), 2003.
 - Student Research Encouraging Award of 2003 Tokai Section joint Conference of the Institutes of Electrical and Related Engineers
 - Noriharu Tashiro, **Takayuki Ito**, Tadachika Ozono, and Toramatsu Shintani:"Implementing OnLine Direct Editing System for Web-page," In the Record of 2003 Tokai Section joint Conference of the Institutes of Electrical and Related Engineers, pp262, Institutes of Electrical and Related Engineers,Oct.2003.
 - KAWAMURA OSAMU, Tomoharu Hasegawa, **Takayuki Ito**, and Toramatsu Shintani:"Adlib Imitating System, "In the Record of 2003

Tokai Section joint Conference of the Institutes of Electrical and Related Engineers, pp.250, Oct. 2003.

INVITED TALK/Panel/Tutorial

1. Keynote Speech, Takayuki Ito, "Towards Hyperdemocracy: Crowd-scale Discussion Support by AI Agents", 17th Asian Conference on Intelligent Information and Database Systems 23-25 April 2025, Kitakyushu, Japan.
2. Keynote Speech, Takayuki Ito, "HyperDemocracy : Large-scale Consensus Support Platform based on Social Multiagent Systems", The 18th IEEE-RIVF International Conference on Computing and Communication Technologies, Da Nang, Vietnam, Dec 21-23, 2024. (2024.12.22)
3. Invited Talk, Takayuki Ito, "Towards Hyperdemocracy: AI-powered Crowd-scale Discussion Support System", The 2024 8th International Conference on Natural Language Processing and Information Retrieval (The 2024 NLPPIR), Okayama, Japan. 13-15 November 2024. (2024.12.15).
4. Invited Talk, Takayuki Ito, "Towards Hyperdemocracy: AI-powered Crowd-scale Discussion Support System", The 2024 International Conference on Data Engineering and Enterprise Systems (The 2024 ICDEES), Yogyakarta, Indonesia, 29–30 November 2024. (2024.11.30).
5. Invited Talk, Takayuki Ito, "Towards Hyperdemocracy: AI-powered Crowd-scale Discussion Support System", The 2nd International Conference on ICT Application Research (IAR 2024), Aomori, Japan, August 31 to Sep 3, 2024. (2024.9.2)
6. Panel, The Opportunity & Progress Toward Inclusion, ISSIP 2024 Event Series: AI Challenges to Global Democracy, 2024.08.21.
7. Invited Talk, Takayuki Ito, "Towards Hyperdemocracy: AI-powered Crowd-scale Discussion Support System", the Research Semester Programme on AI's Impact on Society, Media, and Democracy at Centrum Wiskunde & Informatica (CWI), Amsterdam, Netherland, May 28-29, 2024.
8. Invited Talk, Takayuki Ito, Towards Hyperdemocracy: AI-empowered Crowd-scale Discussion Support System, in Session "International

Cooperation for AI & Digital Governance", International Governance Forum (IGF-Kyoto 2023), 2023.10.9.

9. Invited Talk, Takayuki Ito, Mechanism Design Seminar: Mechanism of Google AdWords , International Seminar on Artificial Intelligence and Business Ecosystem, Samarinda, May 29, 2023
10. Invited Speaker, "The AI Role and Implications (Trust)", International Symposium on Applied Artificial Intelligence (6th Session), 15 December 2022.
11. Invited Speaker, "Applied AI", International Symposium on Applied Artificial Intelligence (5th Session), 8 December 2022.
12. Invited Speaker, "Learning Technology", International Symposium on Applied Artificial Intelligence (4th Session), 6 December 2022.
13. Invited Speaker, "Multi-Agent Systems", International Symposium on Applied Artificial Intelligence (3rd Session), 29 November 2022.
14. Invited Speaker, "Meaning of Intelligence", International Symposium on Applied Artificial Intelligence (2nd Session), 28 November 2022.
15. Invited Speaker, "History of AI Research", International Symposium on Applied Artificial Intelligence (1st Session), 24 November 2022.
16. Invited Speaker, "Towards Hyperdemocracy: Multiple Agents that Facilitate Crowd Discussion", PRIMA2022. Nov 16, 2022.
17. Invited Speaker, "Towards Hyperdemocracy: Multiple Agents that Facilitate Crowd Discussion", DemocrAI2022 workshop, PRICAI2022, Nov.10, 2022.
18. Panelist, Towards Human Augmentation and Trustworthy AI with Ethical Design- Collaboration of CS and SSH to realize human augmentation and trustworthy AIJST, Nov 9, 2022.
19. Invited Speaker, "Towards Hyperdemocracy: AI-empowered Crowd-scale Discussion Support Platform", Intelligent Computing College, Chang Gung University, Nov. 8, 2022.
20. Program Chair, Panelist, The 3rd JST-ERCIM workshop, Oct 27-28, 2022
21. Keynote Speaker, Takayuki Ito, "An Agent that Facilitates Crowd Discussion", International Collaborative Symposium for Informatics (ICSI 2022), University of Wollongong, Australia, Sep 14-15, 2022.

22. Tutorial, Takayuki Ito, Scalable Agent-based Discussion Platforms: Foundations, Development, and Applications, 2022.05.10, AAMAS2022. site.
23. Keynote Speech, Takayuki Ito, Agent that Facilitates Crowd Discussion, Second JST-ERCIM Symposium, 2021.12.20.
24. Program Chair, Second JST-ERCIM Symposium, 2021.12.20.
25. Tutorial, Takayuki Ito, Towards Hyperdemocracy: AI-enabled Crowd Consensus Making and Its Real-World Societal Experiments, PRICAI2021. 2021.11.08
26. Invited Talk, Takayuki Ito, Towards Hyper Democracy: Agent-facilitated Crowd Discussion Support System, AI for Cognitive and Physical Frailty Workshop (AIF) in IJCAI2021, online, 2021.08.24.
27. Keynote speech, Takayuki Ito, Agent that Facilitate Crowd Discussion, 2021 3rd IEEE International Conference on Computer Communication and the Internet (IEEE-ICCCI2021), 2021.06.26.
28. Keynote Speech, Takayuki Ito, Agent that Facilitates Crowd Discussion, AIIT / DCS-BINUS International Symposium on Social Artificial Intelligence, 2021.03.17.
29. Invited Talk, Takayuki Ito, D-Agree: Crowd-scale Consensus Support System based on Automated Facilitation Agent, 15th International Conference on Knowledge, Information and Creativity Support System (KICSS2020), online, 2020.11.26.
30. Invited Talk, Takayuki Ito, "Agent that Facilitates Crowd Discussion", The 1st International Workshop on Agent-based Crowd Decision-making (AgentCrowd2019) in conjunction with PRIMA 2019, Torino, Italy, Oct 28, 2019.
31. Invited Talk, Takayuki Ito, "Agent That Facilitates Crowd Discussion", 2019 Pacific Rim Knowledge Acquisition Workshop (PKAW 2019), Fiji, August 28-29,2019.
32. Invited Talk, Takayuki Ito, Invited Talk, Artificial Intelligence Platform: PFIA, "Agent that Facilitates Crowd Discussion", July 5th, 2019, Toulouse, French.

33. Keynote Speech, "Towards an Intelligent Crowd Discussion and Decision Support System", The 2nd International Conference on Crowd Science and Engineering, Beijing, China, July 7, 2017.
34. Panelist, "Crowd Intelligence and IoT", The 29th Australasian Joint Conference on Artificial Intelligence (AI2016), Hobart, Australia, Dec 7 2016.
35. Keynote Speech, "Innovating Intelligent Crowd Discussion and Consensus Support Systems", The 29th Australasian Joint Conference on Artificial Intelligence (AI2016), Hobart, Australia, Dec 7 2016.
36. Panel chair and presentation, Harmonizing Synergy between Human Society and Intelligent Informatics, IEEE Service-oriented Computing and Applications (IEEE SOCA), Macau, Nov 4-5, 2016.
37. Invited Talk, Crowd Decision-Making and Consensus Support System based on Agent and AI Technologies, International Symposium on Knowledge and System Science (KSS2016), Kobe, Japan, Nov 4-6, 2016.
38. Invited Talk, Envisioning the Future of NIT-UOW Collaboration systems, The International Collaborative Symposium for Informatics - Towards Global and Joint Collaboration -, Sep 26, 2016. NIT.
39. Invited Talk, Overview of the project: innovating agent-based large-scale consensus support systems, The International Collaborative Symposium for Informatics - Towards Global and Joint Collaboration -, Sep 26, 2016. NIT.
40. Invited Talk, Innovating Large-scale Discussion and Consensus Support Systems based on Agent Technologies, ASIA-PACIFIC ECONOPHYSICS CONFERENCE, August 24, (Aug 24-26) 2016
41. Invited Talk, Innovating Large-scale Discussion and Consensus Support Systems based on Agent Technologies, Institute of Information Science, Academia Sinica, Taiwan, June 17, 2016.
42. Invited Talk, Innovating Large-scale Discussion and Consensus Support Systems based on Agent Technologies, National Taiwan University, Taiwan, June 16, 2016.
43. Invited Tutorial, Social Value Engineering, IEEE TenSymp 2016, Sanur, Bali, Indonesia, 9-11 May 2016.

44. Invited Talk, Incentive Mechanism for Managing Large-Scale Internet-based Discussions on COLLAGREE, Nanyang Technological University (NTU), 2015.03.09. (march 9).
45. Invited Talk, Facilitating Large-scale Collective Discussion, University of Wollongong, Australia, 2014.12.22.
46. Invited Talk, Collagree: A Large-scale Collective Discussion Support System, Dalian Institute of Technology, Dalian, China, 2014.09.19.
47. Invited Talk, Collagree: A Large-scale Collective Discussion Support System, Dalian Neusoft University of Information, Dalian, China, 2014.09.18.
48. Keynote Speech, "Facilitating Large-scale Collective Discussion", IIAI International Conference on Advanced Applied Informatics (IIAI AAI 2014), August 31 - September 4, 2014, Kitakyushu, Japan, Kitakyushu International Conference Center, 2014.
49. Invited Talk, "Automated Negotiation", Invited Seminar, University of California, Irvine, USA, Feb. 21, 2014.
50. Invited Talk, Theories and Technologies of Multiagent Systems for Future Social System, Dalian Neusoft University of Information, Dalian, China, 2013.08.19.
51. Keynote Speech, "Theories and Technologies of Multi-Agent Systems for Future Social Systems", 1st IEEE International Conference on Business Informatics(CBI), Vienna, Austria, July 15-18, 2013.
52. Keynote speech, "Introduction to Computational Mechanism Design", 4th International Symposium on Applied Informatics (ISAI 2013), IIAI, Tokyo, 2013.5.25.
53. AAMAS2013 Tutorial, "Agend-mediated Electronic Negotiations", AAMAS2013, Saint Paul, May 7th, 2013
54. Speaker and Panelist, Presentation of Background Paper, Plenary Session 10: Intelligent Transport System: A Vision of 21st Century Cities, Seventh Regional EST Forum in Asia, 23-25 April 2013, Bali, Indonesia.
55. Invited Talk, "Innovating Multiagent Algorithms for Smartcity", Invited Seminar, University of California, Irvine, USA, Dec 3, 2012.

56. Speaker, 2012 Japanese-American Kavli Frontiers of Science Symposium, National Academy of Science and Japanese Society for Promotion of Science, Nov 29-Dec 2, 2012.
57. Invited Talk, "Innovating Multiagent Algorithms for Smartcity", Invited Seminar, Wollongong University, Australia, 22 Nov. 2012.
58. Invited Talk, "Innovating Multiagent Algorithms for Smartcity", Invited Seminar, University of Technology, Sydney, Australia, 20 Nov. 2012.
59. Panelist, The Panel Session of The First International Workshop on Sustainable Enterprise Software (SES2011), IEEE-CEC2011 Workshp, Luxemborg, 2011.9.
60. "Towards Collaborative City Design Support for Sustainable Society", 2nd International Symposium on Applied Informatics (ISAI 2011), IIAI, 2011.8 (Keynote Address).
61. "Multi-Agent Automated Negotiation and its Application to Collective Collaboration System", Invited Seminar, University of California, Irvine (UCI), March 9, 2011.
62. "Multi-Agent Systems and its Application to Collaborative Design ", Invited Talk, Dalian Neusoft Institute of Information, China, Aug. 25, 2010.
63. "Automated Multi-issue Negotiation and its Application to Collaborative Design", Keynote Speech, the 9th IEEE/ACIS International Conference on Computer and Information Science (ICIS 2010), August 19, 2010, Kaminoyama (Yamagata), Japan, Tsukioka Hotel and Yamagata University.
64. "Automated Multi-issue Negotiation and its Application to Collaborative Design", Invited Seminar, Canada National Research Council, Ottawa, Canada, May 17, 2010.
65. "Multi-Agent Technologies for Clinical Data Applications", Clinica Data International Symposium, March 5th, 2010.
66. Invited Talk, "An Implementation of Interdependent Value Auctions", Tsukuba University, Nov. 12, 2009.
67. Paneler, Panel Session "Multi-Agent Community in Japan : Today and Future", I present the situation of the conference, PRIMA 2009. Joint Agent Workshop & Symposium 2009 (JAWS2009).

68. AAMAS2012 Tutorial, "Agent-mediated Electronic Negotiations", Valencia, 2012.
69. AAMAS2011 Tutorial, "Agent-mediated Electronic Negotiations", Taipei, 2011.
70. AAMAS2010 Tutorial, "Agent-mediated Electronic Negotiations", 2010.
71. AAMAS2009 Tutorial on Complex Negotiations for Intractable Problems, May 2009.
72. AAMAS2008 Tutorial on Complex Negotiations for Intractable Problems, May 2008.
73. Invited Talk, "Efficient Business Process based on Multi-Agent Technologies and its Applications", Technology Seeds Seminars, Mechtronics-Technology Japan, Nagoya, Oct. 18, 2007.
74. FIT2007 Tutorial on "Electronic Market Technologies and their Applications", Sep. 7, 2007.
75. Invited Talk, "Theories and Technologies in Web 2.0" in "A New Innovation by the Internet, Communications and Business by Web2.0", Information-Communication Symposium by Tokai Bureau of Telecommunications in Ministry of Internal Affairs and Communications in Japan, 2007.
76. Invited Talks, "The Recent Web Business from the Viewpoint of Auctions and Electronic Commerce Algorithms ", Web Business Special Interest Group, March 30, 2007.
77. Invited Talk, "Interdependent Value Auctions and their Applications", Mechanism Design Symposium, Okinawa, Japan, March 21, 2007.
78. Invited Talk, "Technologies and Theories that Flatten the World : E-Commerce algorithms and Auctions", Invited Lecture, N-Cube, Nagoya, Japan.
79. Invited Talk, "Designing an Interdependent Value Auction", AAMAS Best Paper Special Talk, Joint Agent Workshop & Symposium (JAWS2006), Japan.
80. Invited Talk, "Designing Auction Protocols under Asymmetric Information on Nature's selection", ECONCS Special Seminar, Harvard University, US.

81. Invited Talk, “Designing Auction Protocols under Asymmetric Information on Nature’s selection”, Invited Seminar, Canada National Research Council, Canada.
82. Invited Talk, “Agent-mediated Electronic Commerce: Theories and Applications”, Invited Seminar, Wollongong University, Australia.

PROFESSIONAL ACTIVITIES

Assessor:

- Australia Research Council (ARC), assessor.

Organizers/Program Chairs/Local Arrangements/Tutorials etc.

- **2022:**
 - AAAI2022 Tutorial Chair
 - AAAI2022 Demonstration Program, Program Committee Member
- **2021:**
 - IJCAI2021 Area Chair
 - IJCAI2021 Sponsorship co-Chair
 - AAMAS2021 Program Committee Member
 - AAAI2021 Program Committee Member
 - AAAI2021 Demonstration Program, Program Committee Member
 - PRICAI2021 Program Committee Member
 - PAAMS2021 Program Committee Member
 - IEEE ICA2021 Conference Chair
- **2020:**
 - IJCAI-PRICAI2020 Local Arrangements Chair, Sponsorship Chair
 - KICSS2020 General Chair
 - PRIMA2020 General Chair
 - IEEE ICA2020 Program Chair
- **2015-2019:**
 - IJCAI 2019 Advisory Committee
 - JSAI trustee 2016-2020
 - etc.

- Many other conference organizers
- 2014:
 - Executive Committee Member, IEEE Computer Society Technical Committee on Intelligent Informatics, April 2014-.
Board Member, International Foundation on Autonomous Agents and Multi-Agent Systems (IFAAMAS).
General Chair, International Conference on Principles and Practice of Multi-Agent Systems (PRIMA2014).
Steering Committee Member, International Conference on Principles and Practice of Multi-Agent Systems (PRIMA), 2009 -
Program Committee, The International Conference on Autonomous Agents and Multi-Agent Systems (AAMAS2014).
Program Committee, The International Conference on Industrial & Engineering Applications of Artificial Intelligence & Expert Systems (IEA/AIE 2014).
Organizing Chair, International Workshop on Agent-based Complex Automated Negotiations (ACAN 2013) ,2013.
Other Committees of other conferences.
- 2013:
 - Board Member, International Foundation on Autonomous Agents and Multi-Agent Systems (IFAAMAS).
Steering Committee Member, International Conference on Principles and Practice of Multi-Agent Systems (PRIMA), 2009 -
Program Chair, The International Conference on Autonomous Agents and Multi-Agent Systems (AAMAS2013).
Senior Program Committee (SPC), The International Joint Conference on Artificial Intelligence (IJCAI 2011), 2011.
Program Committee, The International Conference on Industrial & Engineering Applications of Artificial Intelligence & Expert Systems (IEA/AIE 2013).
Organizing Chair, International Workshop on Agent-based Complex Automated Negotiations (ACAN 2013) ,2013.
International Conference on Service Oriented Computing and

Applications (SOCA2013), 2013, Workshop Chair.

Other Committees of other conferences.

- 2012

- Board Member, International Foundation on Autonomous Agents and Multi-Agent Systems (IFAAMAS).

Steering Committee Member, International Conference on Principles and Practice of Multi-Agent Systems (PRIMA), 2009 -

Program Committee (SPC), The 25th AAAI Conference on Artificial Intelligence (AAAI-12) , 2012.

Senior Program Committee (SPC), The International Conference on Autonomous Agents and Multi-Agent Systems (AAMAS2012).

Organizing Chair, International Workshop on Agent-based Complex Automated Negotiations (ACAN 2010) 2010.

Lecturer, AAMAS2012 Tutorial on Complex Negotiations for Intractable Problems.

Program Committee, The International Conference on Industrial & Engineering Applications of Artificial Intelligence & Expert Systems (IEA/AIE 2012).

etc.

- 2011:

- Board Member, International Foundation on Autonomous Agents and Multi-Agent Systems (IFAAMAS).

Steering Committee Member, International Conference on Principles and Practice of Multi-Agent Systems (PRIMA), 2009 -

Senior Program Committee (SPC), The International Joint Conference on Artificial Intelligence (IJCAI 2011), 2011.

Senior Program Committee (SPC), The 25th AAAI Conference on Artificial Intelligence (AAAI-11) , 2011.

Senior Program Committee (SPC), The International Conference on Autonomous Agents and Multi-Agent Systems (AAMAS2011).

Program Committee, The 9th International Conference on Practical Applications of Agents and Multi-Agent Systems (PAAMS2011), 2011.

Organizing Chair, International Workshop on Agent-based Complex

Automated Negotiations (ACAN 2010) 2010.

Lecturer, AAMAS2011 Tutorial on Complex Negotiations for Intractable Problems.

Program Committee, The International Conference on Industrial & Engineering Applications of Artificial Intelligence & Expert Systems (IEA/AIE 2011).

- 2010:

- Board Member, International Foundation on Autonomous Agents and Multi-Agent Systems (IFAAMAS).

Steering Committee Member, International Conference on Principles and Practice of Multi-Agent Systems (PRIMA), 2009 -

Program Committee, The 19th European Conference on Artificial Intelligence (ECAI2010), 2010.

Program Committee, The Twenty-Fourth AAAI Conference on Artificial Intelligence (AAAI2010), 2010.

Representative Member, Journal of Information Processing Society of Japan (IPSJ), 2010.

Organizing Chair, International Workshop on Agent-based Complex Automated Negotiations (ACAN 2010) 2010.

Program Committee, The International Conference on Industrial & Engineering Applications of Artificial Intelligence & Expert Systems (IEA/AIE 2010).

- 2009:

- Senior Program Committee. The International Joint Conference on Artificial Intelligence (IJCAI 2009).

Steering Committee Member, International Conference on Principles and Practice of Multi-Agent Systems (PRIMA), 2009 -

Program Committee, The 3rd International Conference on Knowledge Science, Engineering, and Management (KSEM 2009).

Program Committee, ACM-SAC Agreement Technology 2009.

Program Committee, The International Joint Conference on Autonomous Agents and Multi-Agent Systems (AAMAS2009).

Program Committee, International Workshop on Agent-mediated

Electronic Commerce (AMEC 2009), 2009.

Program Chair, International Conference Principles of Practice in Multi-Agent Systems (PRIMA 2009) 2009.

General Chair, International Workshop on Agent-based Complex Automated Negotiations (ACAN 2009) 2009.

Lecturer, AAMAS2009 Tutorial on Complex Negotiations for Intractable Problems.

Program Committee, The International Conference on Industrial & Engineering Applications of Artificial Intelligence & Expert Systems (IEA/AIE 2009).

Editorial Advisory Board, Communications of SIWN (System and Information Sciences Notes), 2009.

● 2008:

➤ Senior Program Committee, The International Joint Conference on Autonomous Agents and Multi-Agent Systems (AAMAS2008)

General Chair, The First International Workshop on Agent-based Complex Automated Negotiations (ACAN2008)

2008 IFAAMAS Victor Lesser Distinguished Dissertation Award committee, 2008 (2007/11/22-)

Guest Editor, International Transactions on Systems Science and Applications

Program Committee, International Workshop on Data Engineering Issues in E-Commerce and Services (DEECS2008)

Program Committee Vice Chair, International Conference on Web Intelligence (WI2008)

Program Committee, Pacific Rim International Conference on Multi-Agents (PRIMA2008)

Program Committee, International Workshop on Human Factors and Computational Models in Negotiation (HuCOM 2008)

General Chair, International Workshop on Electronic Commerce, Business, and Services (E-CBS 2008)

Program Committee, The International Joint Conference on Knowledge Science (IJCKS2008) , Dec 2008.

Editor, Journal of Japanese Society on Artificial Intelligence (JSAI), 2008-.

Program Committee, The International Conference on Industrial & Engineering Applications of Artificial Intelligence & Expert Systems (IEA/AIE 2008).

- 2007:

- Reviewer, International Joint Conference on Artificial Intelligence (IJCAI2007), Jan 2007.

Program Committee, ACM International Conference on Electronic Commerce (ACM-EC), 2007.

Program Committee, Forum on Information Technology (FIT 2007) , 2007.

Program Committee, The International Joint Conference on Autonomous Agents and Multi-Agent Systems (AAMAS2007), 2007.

Program Committee, International Workshop on Data Engineering Issues in E-Commerce and Services (DEECS2007), 2007.

Editor, Journal of Information Processing Society of Japan (IPSJ), 2007-.

Organizing Chair, The 3rd International Workshop on Rational, Robust, and Secure Negotiations in Multi-Agent Systems (RRS2007), Nov 2007.

Program Committee, The International Joint Conference on Knowledge Science (IJCKS2007) , Nov 2007.

Program Committee, The International Conference on Industrial & Engineering Applications of Artificial Intelligence & Expert Systems (IEA/AIE 2007).

- 2006

- Program Chair, The 1st Pacific Rim International Workshop on Electronic Commerce (PRIWEC2006), March/2006.

Publications Chair, Organizing Committee, Program Committee, The International Joint Conference on Autonomous Agents and Multi-Agent Systems (AAMAS2006), May/2006.

Program Committee, Annual Conference of Japan Society for Artificial Intelligence 2006 (JSAI2006), June/2006:

Organizing Chair, Organizing Committee, AAMAS2006 International Workshop on Rational, Robust, and Secure Negotiations in Multi-Agent Systems (RRS2006), May 8, 2006.

Program Committee, International Workshop on Data Engineering Issues in E-Commerce (DEEC2006), June 26-29, 2006.

Program Committee, International Conference on E-business (ICE-B 2006), August 7-10, 2006.

A Guest Editor, Special Issue on Negotiation Mechanisms for Multiagent and Grid Resource Management Systems, International Journal of Multiagent and Grid Systems, 2006.

Program Committee, CollaboTech2006, 2006.

Program Committee, The International Conference on Industrial & Engineering Applications of Artificial Intelligence & Expert Systems (IEA/AIE 2006).

- 2005

- Local Arrangement Chair, Program Committee, International Workshop on Data Engineering Issues in E-Commerce (DEEC2005), April/2005.
- Program Committee, Annual Conference of Japan Society for Artificial Intelligence 2005 (JSAI2005), June/2005.

Program Committee, The International Joint Conference on Autonomous Agents and Multi-Agent Systems (AAMAS2005), July/2005.

Organizing Chair, Organizing Committee, AAMAS2005 International Workshop on Rational, Robust, and Secure Negotiations in Multi-Agent Systems (RRS2005), July/2005.

Reviewer, The International Joint Conference on Artificial Intelligence (IJCAI2005), Aug/2005.

Co-chair, Special Interest Group on Intelligence and Complex Systems, The Information Processing Society of Japan, 2005 - Present.

Program Committee, The International Conference on Industrial & Engineering Applications of Artificial Intelligence & Expert Systems (IEA/AIE 2005).

- 2000 - 2005

- Session Chair in The International Workshop on RoboCup Rescue in The International Conference on Multi Agent Systems (ICMAS2000), Jul/2000.
- Management Committee in The Special Interest Group on Groupware and Network in Information Processing Society of Japan, Apr/2000 - Mar/2005.
- Session Chair in The International Conference on Software Engineering, Artificial Intelligence, Networking & Parallel/Distributed Computing (SNPD2001), Aug/2000.
- Program Committee Member in The Special Interest Group on Multi-Agents and Cooperative Computation (MACC) of Japan Society for Software Science and Technology (JSSST), Nov/2000 - Present.
- Organizer of Special Session in the 10th Workshop on Multi-Agents and Cooperative Computation, Nov/2000.
- Session Chair in Annual Conference of System Integration Section of The Society of Instrument and Control Engineers (SI 2000), Dec/2000.
- Local Arrangement Chair of Knowledge Science Symposium 2000, May/2001.
- Session Chair in 16th Annual Conference on Japan Society for Artificial Intelligence, May/2001.
- Lecturer of JAIST Summer School on "Introduction to Agent-oriented E-commerce Programming based on Java", Aug/2001.
- Program Committee Member in Japan Agent Work Shop (JAWS2002), Nov/2001:
- Guest Editor of Journal of Japan Society of Software Science and Technology, Jan/2002.
- Thesis Committees, Miao Chunyan, Dynamic Inference Agents: From Theory to Practice (2002), School of Computer Engineering, Nanyang Technological University, Singapore, Oct/2002.
- Program Committee Member in Japan Agent Work Shop (JAWS2002, 2003, 2004, 2005, 2006, 2007, 2008), Nov/2002- Present:
- Guest Editor of Journal of Japan Society for Artificial Intelligence, Nov/2002:

Inviting Researcher as Visiting Fellow in JAIST, Minjie Zhang, Senior Lecturer in Computer Science, School of Information Technology and Computer Science, The University of Wollongong, Australia, Mar/2003. Program Committee, Session chairs. Organizing Session Chair (2007), The International Conference on Industrial & Engineering Applications of Artificial Intelligence & Expert Systems (IEA/AIE 2003- Present). May/2003 - Present:

Reviewer/ Guest Editor:

Artificial Intelligence Journal, International Journal on Mutli-Agents and Grid Systems, IEEE SMC, IEEE Intelligent Systems, Journal of Computational Intelligence, IEEE TKDE, ACM Transactions on Internet Technologies (TOIT), Journal of Organizational Computing and Electronic Commerce IPSJ Journal, JSAI Journal, JSSST Journal, IEICE Journal, AAMAS, IJCAI, AAI, etc.

CAUSES TAUGHT

2021- (Kyoto University)

Foundation of Programming (Python and more) (1st grade, undergrads)

Software Engineering(3rd grade, undergrads,)

Computer Science(2nd grade, undergrads,)

Information System Design (graduate students)

Information Design (graduate students)

Information Society (graduate students)

Information System Practice (graduate students)

FBL/PBL(graduate students)

2018-2020(NITech)

Programming I (1st grade, undergrads, cse)

Multiagent Systems(3rd grade, undergrads, cse)
Software Engineering(3rd grade, undergrads, cse)
Advanced Multiagent Systems (1st grade, graduate students)
2016-2017(NITech)

Programming I (1st grade, undergrads, cse)
Algorithms for Intelligent Information Processing(3rd grade, undergrads, cse)
Software Engineering(3rd grade, undergrads, cse)
Multiagent Systems (1st grade, graduate students)
MOT Seminars (grads, mta)
2014-2015(NITech)

Information Society (1st grade, undergrads, all area)
Programming I (1st grade, undergrads, cse)
Information Technology I (1st grade, undergrads, cse)
Algorithms for Intelligent Information Processing (3rd grade, undergrads, cse)
Special Seminar of the Core Technology of Electricity & Electronics(1st grade, grads, mta)
MOT Seminars (grads, mta)
2007-2013(NITech)

Programming I (1st grade, undergrads, cse)
Information Technology I (1st grade, undergrads, cse)
Algorithms for Intelligent Information Processing (3rd grade, undergrads, cse)
Special Seminar of the Core Technology of Electricity & Electronics(1st grade, grads, mta)
MOT Seminars (grads, mta)
2006(NITech)

Programming I (1st grade, undergrads, cse)
Programming II (1st grade, undergrads, cse)
Information Technology I (1st grade, undergrads, cse)
Information Technology II (1st grade, undergrads, cse)

Computer Engineering II (3rd grade, undergrads, cse(2))

Algorithms for Intelligent Information Processing (3rd grade, undergrads, cse)

Special Seminar of the Core Technology of Electricity & Electronics(1st grade, grads, mta)

MOT Seminars (grads, mta)

2005(NITech)

Visiting Scholar at Harvard University

Visiting Scholar at Massachusetts Institute of Technology

2004(NITech)

Computer Architecture (3rd grade, undergrads, ics)

Programming I (1st grade, undergrads, cs-l)

Programming I (1st grade, undergrads, cs-n)

Information Technology (1st grade, undergrads, cs)

Knowledge System (grads, cs)

2003

Computer Architecture (undergrads. ICS 3rd grade)

Computer System (undergrads. ICS 2nd grade)

Knowledge System (grads, cs)

2002

Methodology for Knowledge Bases A (grads, knowledge science)

Knowledge Systems (grads, knowledge science)

2001

Next generation Knowledge Systems (Doctor course grads, knowledge science, English)

LANGUAGE PROFICIENCY

Japanese (Native)

English (TOEIC score 885, about three year experiences and research collaborations at USC, MIT, and Harvard in U.S.)

AFFILIATED SOCIETIES

Senior Member, Association for Computational Machinery (ACM)

Member, American Association for Artificial Intelligence (AAAI)

Member, Japanese Society for Artificial Intelligence (JSAI)

Member, Information Processing Society of Japan (IPSJ)

Member, The Institute of Electronics, Information and Communication Engineers (IEICE)

Member, Japan Society for Software Science and Technology (JSSST)

Member, Society of Instrument and Control Engineers (SICE)

Member, Japanese Economic Association (JEA)

RESEARCH INTERESTS

Computational Mechanism Design, Auction, Agent-mediated Electronic Commerce, Multi-agent Negotiation, Agent-based Group Decision Support Systems, Truth Maintenance Systems, and Knowledge Representation.

PATENTS / PATENT PENDINGS

1. "A Fast Communication Method for Electronic Sentences and Words represented in a variety of fonts", Patent Pending, No. 2009-207852.
2. "An User Evaluation System in Internet Auctions", Patent Pending, No. 2009-192953.
3. "Goal-oriented Book Recommendation System" Patent Pending, No. 2007-231026 (Japan Patent Right).
4. "Goods Recommendation System based on observing web-chatting", Patent Pending, No. 2007-276386 (Japan Patent Right).
5. "Cloths Recommendation System based on User's Situation", Patent Pending, No. 2007-312967 (Japan Patent Right).
6. "An Information Sharing System, and A Program and A Method for Facilitating Information Providing for this System", Patent Pending, No. 2004-90505 (Japan Patent Right).

7. "A Decision Support System for Immovable Items Purchasing", Patent Pending, No. 2004-90495 (Japan Patent Right).
8. "An Information Sharing System and A Web-page Editing Program via Web browsers for the system, and A Web-page Editing Method." Patent Pending, No.2004-90494 (Japan Patent Right).
9. "A Bookmark based on 3D Technology and A Web Browsing System that Provides Several Functions", Patent Pending, No. 2004-90506 (Japan Patent Right).
10. "A Direct Web-page Creating and Editing Support System and A Web-page Creating and Editing Method for this System", Patent Pending, No. 2004-90507 (Japan Patent Right).
11. "A Mobile-Agents Information Displaying System and A Location Transparent Manipulation Method for this System", Patent Pending, No. 2004-90508 (Japan Patent Right).
12. "A Nurse Scheduling System that has a re-scheduling function and A Solving Method of Dynamic Weighted Constraint Satisfaction Problems for this System", Patent Pending, No. 2004-****, (Japan Patent Right).
13. "A Consumers' Knowledge Discovering and Analyzing Method", Patent Pending, No. 2004-****, (Japan Patent Right).
14. "A Device for Handling Abnormal Situations in Traffic Signals", Patent Pending, No. 2003-201605 (Japan Patent Right).

REFERENCE

Prof. David Parkes (Professor)
Maxwell Dworking 229,
Division of Engineering and Applied Science,
Harvard University,
33 Oxford Street, Cambridge MA 02138.
TEL: +1 617 384 8130
EMAIL: parkes@ecs.harvard.edu

Dr. Mark Klein (Principal Research Scientist)

Center for Collective Intelligence,
MIT Sloan School of Management,
5 Cambridge Center NE25-754,
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Rigorously Refereed International Conference Papers (Collective Intelligence, Multiagent Systems, AI, etc.)

1. Toshiya Murashige and Takayuki Ito, "Simulating Human Decision-Making in Ultimatum Games using Large Language Models". ACM Collective Intelligence, (ACM-CI2025), 2025(accepted)
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3. Kazuma Fukumura and Takayuki Ito. "Multi-agent Brainstorming Support using IBIS and LLM role-play". ACM Collective Intelligence, (ACM-CI2025),(accepted)
4. Jawad Haqbeen, Sofia Sahab, Takayuki Ito. LLM-based conversational agent enhance student's engagement and learning outcomes in online learning studies: An Experiment with Afghanistan, ACM Collective Intelligence, (ACM-CI2025), 2025(accepted as a featured oral presentation).
5. KAZUHITO MORI, SHIYAO DING, SUSUMU OHNUMA, YUME SOUMA and TAKAYUKI ITO, "Automatic Evaluation of Discussion Quality Using LLM Data Augmentation", ACM Collective Intelligence 2024,Boston, MA, June 26-29, 2024.06.26-29
6. Takayuki Ito, Yihan Dong, Jawad Haqbeen, Sofia Sahab, and Tokuro Matsuo, Multiple AI Agents that Support Crowd Discussion, ACM Collective Intelligence 2024,Boston, MA, June 26-29, 2024.06.26-29.

7. Moeka Nomura, Takayuki Ito, Shiyao Ding, Towards Collaborative Brainstorming among Humans and AI Agents: An Implementation of the IBIS-based Brainstorming Support System with Multiple AI Agents, ACM Collective Intelligence 2024, Boston, MA, June 26-29, 2024.06.26-29.
8. Yihan Dong and Takayuki Ito, "The Multi-agent System based on LLM for Online Discussions", Doctoral Consortium, Auckland, New Zealand, AAMAS2024, May 6-10, 2024.
9. Rafik Hadfi and Takayuki Ito, Augmented Democratic Deliberation: Can Conversational Agents Boost Deliberation in Social Media?, Blue Sky Ideas track, International Conference on Autonomous Agents and Multi-Agent Systems (AAMAS2022), 2022.
10. WenGu, Shohei Kato, Takayuki Ito, Automated Facilitation Support in Online Forum, In the Proceedings of International Joint Conference on Artificial Intelligence (IJCAI2021), Doctoral Consortium, Online, 2021.
11. Jawad Haqbeen, Takayuki Ito, Rafik Hadifi, Tomohiro Nishida, Zoia Sahab, Sofia Sahab, Shafiq Roghmal and Ramin Amiryar, "Promoting Discussion with AI-based Facilitation: Urban Dialogue with Kabul City". The 8th ACM Collective Intelligence 2020, Boston-Copenhagen, June 18-19, 2020.(accepted)
12. Rafik Hadfi and Takayuki Ito. "Exploring Interaction Hierarchies in Collaborative Editing using Integrated Information". The 8th ACM Collective Intelligence 2020, Boston-Copenhagen, June 18-19, 2020.
13. Takayuki Ito, Shota Suzuki, Naoko Yamaguchi, Tomohiro Nishida, Kentaro Hiraishi and Kai Yoshino, D-agree: Crowd Discussion Support System based on Automated Facilitation Agent, Demonstration, 35th AAI conference, February 7-12 2020, New York (Accepted, Demonstration Paper)
14. Pankaj Mishra, Ahmed Maustafa and Takayuki Ito, Optimal Auction based Automated Negotiation in Realistic Decentralized Market Environments, Twenty-Fifth AAI/SIGAI Doctoral Consortium in 35th AAI conference, February 7-12 2020, New York (Accepted, Extended Abstract and Poster)
15. Takayuki Ito, Daichi Shibata, Shota Suzuki, Naoko Yamaguchi, Tomohiro Nishida, Kentaro Hiraishi, and Kai Yoshino, "Agent that Facilitates Crowd

- Discussion”, The 7th ACM Collective Intelligence 2019, Carnegie Mellon University, Pittsburgh, USA, June 13-14, 2019
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 18. **Takayuki Ito**, Yuma Imi, Motoki Sato, Takanori Ito, and Eizo Hideshima, Incentive Mechanism for Managing Large-Scale Internet-Based Discussions on COLLAGREE, Collective Intelligence 2015, May 31 – June 2, 2015 @ the Marriott Santa Clara in Santa Clara, CA (poster).
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 29. Hiromitsu Hattori, Mark Klein, **Takayuki Ito**, "Using Iterative Narrowing to Enable Multi-Party Negotiations with Multiple Interdependent Issues", In the Proceedings of the Sixth International Joint Conference on Autonomous Agents and Multi-Agent Systems (**AAMAS2007**), 2007 (Poster).
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31. **Takayuki Ito**, Mark Klein, Hiromitsu Hattori, "[Multi-issue Negotiation Protocol for Agents: Exploring Nonlinear Utility Spaces](#)", In the Twentieth International Joint Conference on Artificial Intelligence (**IJCAI2007**), Hyderabad, India, January 6-12, 2007 (full paper, poster presentation, accepted).
32. **Takayuki Ito**, Mark Klein, Hiromitsu Hattori, "A Negotiation Protocol for Agents with Nonlinear Utility Functions", In the 21st National Conference on Artificial Intelligence (**AAAI2006**), Boston, July 16-20, 2006 (poster).
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1. Toshiya Murashige and Takayuki Ito, "Simulating Human Decision-Making in Ultimatum Games using Large Language Models". ACM Collective Intelligence, (ACM-CI2025), 2025(accepted)
- 2.
3. Kazuma Fukumura and Takayuki Ito. "Multi-agent Brainstorming Support using IBIS and LLM role-play". ACM Collective Intelligence, (ACM-CI2025),(accepted)

4. Jawad Haqbeen, Sofia Sahab, Takayuki Ito. LLM-based conversational agent enhance student's engagement and learning outcomes in online learning studies: An Experiment with Afghanistan, ACM Collective Intelligence, (ACM-CI2025), 2025(accepted as a featured oral presentation).
5. Jawad Haqbeen, Sofia Sahab and Takayuki Ito. "Assessment of the LLM-based Chatbots on Student Engagement and Learning Outcomes in Afghanistan: A Pilot Randomized Controlled Trial". The 26th Annual International Conference on Digital Government Research, 9-12 June, 2025, Porto Alegre, Brazil
6. Jawad Haqbeen, Sofia Sahab and Takayuki Ito. "Assessment of the LLM-based Chatbots on Student Engagement and Learning Outcomes in Afghanistan: A Pilot Randomized Controlled Trial". The 26th Annual International Conference on Digital Government Research, 9-12 June, 2025, Porto Alegre, Brazil
7. Takayuki Ito and Shun Okuhara, "An Automatic Bottom-up Idea Grouping Method based on LLMs", The 19th International Conference on Knowledge, Information and Creativity Support Systems (KICSS2024), Bali, Indonesia, December 5-7, 2024.(outstanding paper award)
8. Takayuki Ito. "A Multiple-Nash-SA Mediator for Huge Design Utility Spaces in Automated Negotiations", The 8th IEEE International Conference on Agents (ICA2024), Wollongong, Australia, Dec 4-6, 2024 (accepted full paper).
9. Jawad Haqbeen Sofia Sahab Takayuki Ito. Comparison of Best Paper Award Selection between program committee members and attendees: Case of an International Conference, BCD 2024-Summer, Kitakyushu, Japan, July 16-18, 2024 (accepted)
10. Takayuki Ito, Mitigating Prisoner's Dilemma by Moral-based Decision Making among Agents, BCD 2024-Summer, Kitakyushu, Japan, July 16-18, 2024(accepted)
11. Yuchen Liu, Rafik Hadfi and Takayuki Ito, "Proposal of a Double Feedback Digital Product Ranking System", the 1st International Workshop on Mechanism Design in Social Networks, in conjunction with the 33rd

- International Joint Conference on Artificial Intelligence (IJCAI 2024), Jeju Island, South Korea, August 4th, 2024.
12. Qinglin Cui, Yukihide Shibata, Tomohiro Hara, Yume Souma, Mie Tsujimoto, Takayuki Ito and Susumu Ohnuma, "Utterance Analysis of Discussions Structure and Discourse Quality: A Case of Removed Soils in Fukushima Prefecture, Japan", The 4th International Workshop on Democracy and AI (DemocrAI 2024), in conjunction with the 33rd International Joint Conference on Artificial Intelligence (IJCAI 2024), Jeju Island, South Korea, August 4th, 2024.
 13. Shiyao Ding and Takayuki Ito, Ding MineLlama: Llama with Retrieval-Augmented Generation as A Decision Maker in Minecraft, The 22nd International Conference on Practical Applications of Agents and Multi-Agent Systems (PAAMS2024), Spain, 26th-28th June, 2024
 14. KAZUHITO MORI, SHIYAO DING, SUSUMU OHNUMA, YUME SOUMA and TAKAYUKI ITO, "Automatic Evaluation of Discussion Quality Using LLM Data Augmentation", ACM Collective Intelligence 2024, Boston, MA, June 26-29, 2024.06.26-29
 15. Takayuki Ito, Yihan Dong, Jawad Haqbeen, Sofia Sahab, and Tokuro Matsuo, Multiple AI Agents that Support Crowd Discussion, ACM Collective Intelligence 2024, Boston, MA, June 26-29, 2024.06.26-29.
 16. Moeka Nomura, Takayuki Ito, Shiyao Ding, Towards Collaborative Brainstorming among Humans and AI Agents: An Implementation of the IBIS-based Brainstorming Support System with Multiple AI Agents, ACM Collective Intelligence 2024, Boston, MA, June 26-29, 2024.06.26-29.
 17. Yihan Dong and Takayuki Ito, "The Multi-agent System based on LLM for Online Discussions", Doctoral Consortium, Auckland, New Zealand, AAMAS2024, May 6-10, 2024.
 18. Jawad Haqbeen, Sofia Sahab and Takayuki Ito. "Assessing the Impact of AI-mediation on Changing Extreme Perception in Online Discussion: Post-Intervention Responses in Post-2021 Afghanistan". The 25th Annual International Conference on Digital Government Research(dg.o), 11-14 June, 2024, National Taiwan University, Taiwan (accepted as full paper)

19. Jawad Haqbeen, Sofia Sahab and Takayuki Ito. "From Interactive Idea Development to Solution Planning: An AI-assisted Discussion Facilitation Timeline for Collaborative Planning". The 25th Annual International Conference on Digital Government Research(dg.o), 11-14 June, 2024, National Taiwan University, Taiwan (accepted as poster)
20. Yihan Dong and Takayuki Ito, "The Multi-agent System based on LLM for Online Discussions", Doctoral Consortium, Auckland, New Zealand, AAMAS2024, May 6-10, 2024.
21. Shiyao Ding and Takayuki Ito, Finding Agreements among Massive Diverse Opinions (Extended abstract), Information and Creativity Support Systems (KICSS 2023), September 20-22, 2023.
22. Takayuki Ito, An Approach to Overcome the Opinion Polarization by a Small Social Interest (Extended abstract), The Eighteenth International Conference on Knowledge, Information and Creativity Support Systems (KICSS 2023), September 20-22, 2023.
23. Jawad Haqbeen, Sofia Sahab, and Takayuki Ito, A Case Study on the Comparison of AI-facilitated Threaded Conversation versus Threaded Conversation, The Eighteenth International Conference on Knowledge, Information and Creativity Support Systems (KICSS 2023), September 20-22, 2023.
24. Senanu Okuboyejo, Jawad Haqbeen, and Takayuki Ito, Evaluating the performance of Machine Learning Classifiers on Predicting Hypothyroidism for Public Healthcare Good, The Eighteenth International Conference on Knowledge, Information and Creativity Support Systems (KICSS 2023), September 20-22, 2023.
25. Jawad Haqbeen, Sofia Sahab, and Takayuki Ito, A Digital Initiative to Address Girls Education Challenges in Collaboration with NPO in Post-2021 Afghanistan, The Eighteenth International Conference on Knowledge, Information and Creativity Support Systems (KICSS 2023), September 20-22, 2023. (Excellent Paper Award)
26. Sofia Sahab, Jawad Haqbeen and Takayuki Ito, Facilitating Collaborative Consensus Building in Web-based Discussion through Collective Task-Based Roles: A Case Study, The Eighteenth International Conference

- on Knowledge, Information and Creativity Support Systems (KICSS 2023), September 20-22, 2023.
27. Sofia Sahab, Jawad Haqbeen and Takayuki Ito, Facilitating Collaborative Consensus Building in Web-based Discussion through Collective Task-Based Roles: A Case Study, The Eighteenth International Conference on Knowledge, Information and Creativity Support Systems (KICSS 2023), September 20-22, 2023.
 28. Shun Okuhara, Ryo Sugawara, Masanori Takagi, Takayuki Ito, "Examining the Influence of Agents on Human Decision-Making: A Study on Debating AI and Opinion Change", The 1st International Conference on ICT Application Research (IAR 2023) ,2023(Outstanding Paper Award)
 29. Shiyao Ding and Takayuki Ito, Self-Agreement: A Framework for Fine-tuning Language Models to Find Agreement among Diverse Opinions, The 20th Pacific International Conference on Artificial Intelligence (PRICAI 2023), November 17-19, 2023, Jakarta, Indonesia.
 30. Shiyao Ding and Takayuki Ito, A Deep Reinforcement Learning Based Facilitation Agent for Consensus Building among Multi-Round Discussions, The 20th Pacific International Conference on Artificial Intelligence (PRICAI 2023), November 17-19, 2023, Jakarta, Indonesia.
 31. Shiyao Ding, Hideki Aoyama and Donghui Lin, MARL4DRP: Benchmarking Cooperative Multi-Agent Reinforcement Learning Algorithms for Drone Routing Problems, The 20th Pacific International Conference on Artificial Intelligence (PRICAI 2023), November 17-19, 2023, Jakarta, Indonesia. (Short Paper)
 32. Ryuta Arisaka and Takayuki Ito, Relational Acceptability Semantics of Abstract Argumentation, The 20th Pacific International Conference on Artificial Intelligence (PRICAI 2023), November 17-19, 2023, Jakarta, Indonesia. (Short Paper)
 33. Jawad Haqbeen, Sofia Sahab and Takayuki Ito. "Crowd-Selected "Quality Paper": Selecting a Quality Paper based on Conference Attendees's Decision using Conversational AI Platform". The 23rd International Conference on Group Decision and Negotiation, June 11-15, 2023, Tokyo, Japan (Accepted)

34. Sofia Sahab, Jawad Haqbeen and Takayuki Ito. "Facilitating Discussion Element-specific Problem-solving Conversations using Conversational Agent: Case of IBIS". The 23rd International Conference on Group Decision and Negotiation, June 11-15, 2023, Tokyo, Japan (accepted)
35. Sofia Sahab, Jawad Haqbeen and Takayuki Ito. "Facilitating the problems that lie within the solutions using Conversational AI: A Case Study of Post-2021 Afghanistan". The 24th Annual International Conference on Digital Government Research, 11-14 July, 2023, Gdansk, Poland (accepted as poster)
36. Jawad Haqbeen, Sofia Sahab and Takayuki Ito. "In Solidarity with Ukraine through Conversational AI via Facebook Ads: A Case Study of Online Discussion in 15 Countries". The 24th Annual International Conference on Digital Government Research, 11-14 July, 2023, Gdansk, Poland (accepted as poster)
37. Takumi Fujimoto and Takayuki Ito, "Emotion Prediction based on Conversational Context and Commonsense Knowledge Graphs", The 36th International Conference on Industrial, Engineering & Other Applications of Applied Intelligent Systems, 2023.07. (Short paper)
38. Qin Liang, Wen Gu, Shohei Kato, Fenghui Ren, Guoxin Su, Takayuki Ito and Minjie Zhang, Partner Selection Strategy in Open, Dynamic and Sociable Environments, 15th International Conference on Agents and Artificial Intelligence (ICAART 2023), Lisbon, Portugal, February 22-24, 2023.
39. Zongcan Li, Rafik Hadfi and Takayuki Ito. Divide-and-Conquer in Automated Negotiations Through Utility Decomposition. The 17th International Conference on Knowledge, Information and Creativity Support Systems, November 2022.(full paper; accepted)(Best Paper Award)
40. Shiyao Ding and Takayuki Ito. Graph Convolutional Networks for Link Prediction in Argument Structure Extraction. The 17th International Conference on Knowledge, Information, and Creativity Support Systems, November 2022. (short paper; accepted)
41. Sofia Sahab, Jawad Haqbeen and Takayuki Ito. Featuring Influential Participants to Engage Crowd by Virtual Incentive in Crowdsourcing

- Contents The 17th International Conference on Knowledge, Information, and Creativity Support Systems, November 2022. (Regular paper; accepted)
42. Jawad Haqbeen, Sofia Sahab and Takayuki Ito. "How did discourse shift among Afghan citizens during the fall of the republic: Early insights using conversational AI platform". The 23rd Annual International Conference on Digital Government Research, Seoul National University, South Korea, June 15-17, 2022. <https://doi.org/10.1145/3543434.3543595>
 43. Yuchen Liu, Rafik Hadfi and Takayuki Ito, Concession Strategy Adjustment in Automated Negotiation Problems, International Workshop on The 13th International Workshop on Agent-based Complex Automated Negotiations (ACAN2022), in conjunction with IJCAI-ECAI2022, July 24th, 2022, Vienna, Austria.
 44. Jawad Haqbeen, Sofia Sahab, and Takayuki Ito, Facilitating Discussion on COVID-19 with Autonomous Facilitator: A Case Study on the Comparison of Expert Discussion versus the Public Paradigm Ratio of Reply for Agent Facilitation Post, The Sixteenth International Conference on Knowledge, Information and Creativity Support Systems (KICSS 2021), November 24-26, 2021.
 45. Atsuya Sakai, Shota Suzuki, Rafik Hadfi, Takayuki Ito, Extracting Issue-Based Information System Structures from Online Discussions for Automated Facilitation Agent, The Sixteenth International Conference on Knowledge, Information and Creativity Support Systems (KICSS 2021), November 24-26, 2021.
 46. Takayuki Ito, An Agreement Mechanism Among Negotiating Agents based on Self-Control in Two-Stage Negotiations, The Sixteenth International Conference on Knowledge, Information and Creativity Support Systems (KICSS 2021), November 24-26, 2021.
 47. Shun Okuhara, Rafik Hadfi, Takayuki Ito, Investigating shame and selfishness in two-stage choice problems with interdependent alternatives, The Sixteenth International Conference on Knowledge, Information and Creativity Support Systems (KICSS 2021), November 24-26, 2021.

48. WenGu, Shohei Kato, Takayuki Ito, Automated Facilitation Support in Online Forum, In the Proceedings of International Joint Conference on Artificial Intelligence (IJCAI2021), Doctoral Consortium, Online, 2021.
49. Sofia Sahab, Jawad Haqbeen, Takayuki Ito, "Different or Alike? Motivation to Participate and Social Influence in Online Discussions by Age and Gender", The 26th International Conference on Urban Planning and Regional Development in the Information Society, September 7-10, 2021, Vienna, Austria. (accepted)
50. Sofia Sahab, Jawad Haqbeen, Takayuki Ito, "What Makes a Participative Tool to Gather More Sample Views? Discussion with Supportive means for Mutual Benefit", The 26th International Conference on Urban Planning and Regional Development in the Information Society, September 7-10, 2021, Vienna, Austria.(accepted)
51. Jawad Haqbeen, Sofia Sahab, Takayuki Ito, "Text-based Discussion Environment using a Discussion Support System Enhances Participants' Engagement at International e-Conference", The 26th International Conference on Urban Planning and Regional Development in the Information Society, September 7-10, 2021, Vienna, Austria.(accepted)
52. Jawad Haqbeen, Sofia Sahab and Takayuki Ito "How to deliberate online discussion on COVID-19 at scale? Artificially but with efficient turn-taking". The 21st International Conference on Group Decision and Negotiation, June 6-10, 2021, Toronto, Canada (accepted)
53. Jawad Haqbeen, Takayuki Ito, Sofia Sahab, Rafik Hadfi, Shun Okuhara, Nasim Saba, Murtaza Hofaini and Umar Baregzai " A Contribution to COVID-19 Prevention through Crowd Collaboration using Conversational AI & Social Platforms", IJCAI 2019 Workshop on AI for Social Good, 2020 (Accepted for poster)
54. Jawad Haqbeen, Takayuki Ito, Sofia Sahab, Takumi Sato, Shun Okuhara and Murtaza Hofiani "Insights from a Large-Scale Discussion on COVID-19 in Collective Intelligence", The 19th IEEE/WIC/ACM International Joint Conference of Web Intelligence and Intelligent Agent Technology (WI-IAT-20), Melbourne, Australia (online), 14-17 December, 2020 (ACCEPT)

55. Muhammad Asad, Ahmed Moustafa, and Takayuki Ito, "Federated Learning Verses Classical Machine Learning: A Convergence Comparison" The 15th International Conference on Knowledge, Information and Creativity Support Systems (KICSS 2020), Tasmania, Australia (Online), 25-27 November 2020 (ACCEPT)
56. Takumi Sato, Shun Okuhara, and Takayuki Ito, "Fully Automatic Classification of Open-ended Questionnaire", The 15th International Conference on Knowledge, Information and Creativity Support Systems (KICSS 2020), Tasmania, Australia (Online), 25-27 November 2020 (ACCEPT)
57. Naoki Kawamura, Shun Okuhara, and Takayuki Ito, "Increasing Facilitations by Extracting Concrete Discussion Structures", The Twelfth 2020 International Conference on Knowledge, Information and Creativity Support Systems (KICSS 2020), Tasmania, Australia (Online), 25-27 November 2020 (ACCEPT)
58. Soichiro Kuroyanagi, Shun Okuhara, Rafik Hadi, and Takayuki Ito, "Recognizing Human Actions in Telework Environments using YOLOv5", The Twelfth 2020 International Conference on Knowledge, Information and Creativity Support Systems (KICSS 2020), Tasmania, Australia (Online), 25-27 November 2020 (ACCEPT)
59. Sofia Sahab, Takayuki Ito, Jawad Haqbeen, and Shun Okuhara, "A Study on Neighborhood Functions Using Smart Discussion Platform: Kabul City Experiment", The 15th International Conference on Knowledge, Information and Creativity Support Systems (KICSS 2020), Tasmania, Australia (Online), 25-27 November 2020 (ACCEPT)
60. Jawad Haqbeen, Takayuki Ito, Sofia Sahab, Rafik Hadfi, Takumi Sato, and Shun Okuhara, "Meeting the SDGs: Enabling the goals by cooperation with crowd using conversational AI platform", The 15th International Conference on Knowledge, Information and Creativity Support Systems (KICSS 2020), Tasmania, Australia (Online), 25-27 November 2020 (ACCEPT)
61. Hijiri Suzuki, Takayuki Ito, Shun Okuhara, Rafik Hadfi, Ahmed Moutafa, "Human Action Classification using YOLO and Voice Recognition in

- factories”, The Twelfth 2020 International Conference on Knowledge, Information and Creativity Support Systems (KICSS 2020), Tasmania, Australia (Online), 25-27 November 2020 (ACCEPT)
62. Atsuya Sakai, and Takayuki Ito, “Deep Bidirectional Transformers for Online Discussion Understanding”, The 15th 2020 International Conference on Knowledge, Information and Creativity Support Systems (KICSS 2020), Tasmania, Australia (Online), 25-27 November 2020 (ACCEPT)
63. Daiki Setoguchi, Shun Okuhara, Ahmed Moustafa, and Takayuki Ito “Alternating offers protocol by automated negotiation based on constraint relaxation”, The Twelfth 2020 International Conference on Knowledge, Information and Creativity Support Systems (KICSS 2020), Tasmania, Australia (Online), 25-27 November 2020 (ACCEPT)
64. Rafik Hadfi and Takayuki Ito. “Argumentative Conversational Agent for Polarized Online Debates”. ECAI Workshop on Dialogue, Explanation and Argumentation for Human-Agent Interaction (DEXA-HAI-2020). (Accepted)
65. Takumi Sato, Ahmed Moustafa and Takayuki Ito. : “Automatic Classification of Freely-Offered Opinions”, The 2nd International Workshop on Agent-based Crowd Decision-making (AgentCrowd2020) in conjunction with AAMAS2020, Auckland, New Zealand. May 9 or 10, 2020 (Accepted)
66. Yuya Kondo, Takayuki Ito, Ahmed Moustafa, “An Automated Tool for Visualizing Large-Scale Online Discussions”, The 2nd International Workshop on Agent-based Crowd Decision-making (AgentCrowd2020) in conjunction with AAMAS2020, Auckland, New Zealand. May 9 or 10, 2020 (Accepted)
67. Atsuya Sakai, Ahmed Moustafa and Takayuki Ito. : “Deep Bidirectional Transformers for Online Discussion Understanding”, The 2nd International Workshop on Agent-based Crowd Decision-making (AgentCrowd2020) in conjunction with AAMAS2020, Auckland, New Zealand. May 9 or 10, 2020 (Accepted)
68. Jawad, Takayuki Ito, Hadfi, Sahab, Sahab, Amiryar and Nishida “Usage & application of AI-based discussion facilitation system for city issues and town meeting: Kabul experimental view”, The 2nd International Workshop

- on Agent-based Crowd Decision-making (AgentCrowd2020) in conjunction with AAMAS2020, Auckland, New Zealand. May 9 or 10, 2020 (Accepted)
69. Naoki Kawamura, Ahmed Moustafa and Takayuki Ito. : "Extracting Discussion Structures for Automated Facilitation Agents", The 2nd International Workshop on Agent-based Crowd Decision-making (AgentCrowd2020) in conjunction with AAMAS2020, Auckland, New Zealand. May 9 or 10, 2020 (Accepted)
 70. Takayuki Ito, Sensen Qiao, Ahmed Moustafa, Shun Okuhara "A Negotiation Matching Protocol for Many-to-Many Agents with Nonlinear Utility Functions", The 2nd International Workshop on Agent-based Crowd Decision-making (AgentCrowd2020) in conjunction with AAMAS2020, Auckland, New Zealand. May 9 or 10, 2020 (Accepted)
 71. Pankaj Mishra, Ahmed Moustafa, Takayuki Ito. : "Fairness based Multi-Preference Resource Allocation in Decentralised Open Markets", 11th International Workshop on Optimization and Learning in Multiagent Systems (OptLearnMAS 2020) in conjunction with AAMAS2020, Auckland, New Zealand. May 9 or 10, 2020
 72. Pankaj Mishra, Ahmed Moustafa, Takayuki Ito. : "Reinforcement Learning based Real-Time Pricing in Open Cloud Markets", The 33th International Conference on Industrial, Engineering & Other Applications of Applied Intelligent Systems, 21-24 JULY 2020 [ACCEPTED]
 73. Tagy Alden, Ahmed Moustafa, Takayuki Ito, "Toward Agent-based Interactive Systems to Support Rehabilitation Process", 2020 IEEE 24rd International Conference on Computer Supported Cooperative Work in Design (Accepted)(Due to 2019-nCoV, the organizers decided to postpone the conference for one year. Now it will be held at the same location in 2021 and the accepted papers will be published with 2021 CFP)
 74. Muhammad Asad, Ahmed Moustafa, Takayuki Ito, "Evaluating the Communication Efficiency in Federated Learning Algorithms", 2020 IEEE 24th International Conference on Computer Supported Cooperative Work in Design (Accepted) (Due to 2019-nCoV, the organizers decided to postpone the conference for one year. Now it will be held at the same location in 2021 and the accepted papers will be published with 2021 CFP)

75. Ryuta Arisaka and Takayuki Ito, "Let's Accept a Mission Impossible with Formal Argumentation, or not", The 17th International Conference on Distributed Computing and Artificial Intelligence (DCAI 2020), L'Aquila, Italy, 17th-19th June, 2020. (Accepted)
76. Ryuta Arisaka and Takayuki Ito, "A New Perspective of May-Must Argumentation: Three Pillars", The 20th Trends in Logic international conference, Logic and Reasoning: Formal and Informal (TRENDS20), Kyiv, Ukraine, May 13-15, 2020. (Accepted)
77. Ryuta Arisaka and Takayuki Ito. Broadening Label-based Argumentation Semantics with May-Must Scales, 3rd International Conference on Logic and Argumentation (CLAR 2020), 6-9 April, Hangzhou, China
78. Natsuki Matsunami, Shun Okuhara and Takayuki Ito, Agents that Learn to Vote for a Joint Action Through Multi-Agent Reinforcement Learning, 8th International Conference on Smart Computing and Artificial Intelligence (SCAI 2020) (採録)
79. Jawad Haqbeen, Takayuki Ito, Rafik Hadifi, Tomohiro Nishida, Zoia Sahab, Sofia Sahab, Shafiq Roghmal and Ramin Amiryar, "Promoting Discussion with AI-based Facilitation: Urban Dialogue with Kabul City". The 8th ACM Collective Intelligence 2020, Boston-Copenhagen, June 18-19, 2020.(accepted)
80. Rafik Hadfi and Takayuki Ito. "Exploring Interaction Hierarchies in Collaborative Editing using Integrated Information". The 8th ACM Collective Intelligence 2020, Boston-Copenhagen, June 18-19, 2020.
81. Takayuki Ito, Rafik Hadfi, Jawad Ahmad Haqbeen, Shota Suzuki, Atsuya Sakai, Naoki Kawamura and Naoko Yamaguchi, Agent-based Crowd Discussion Support System and Its Societal Experiments, 18th International Conference on Practical Applications of Agents and Multi-Agent Systems (PAAMS2020), demonstration, L'Aquila (Italy), 17th-19th June, 2020.
82. Takayuki Ito, Shota Suzuki, Naoko Yamaguchi, Tomohiro Nishida, Kentaro Hiraishi and Kai Yoshino, D-agree: Crowd Discussion Support System based on Automated Facilitation Agent, Demonstration, 35th AAI conference, February 7-12 2020, New York (Accepted, Demonstration Paper)

83. Pankaj Mishra, Ahmed Maustafa and Takayuki Ito, Optimal Auction based Automated Negotiation in Realistic Decentralized Market Environments, Twenty-Fifth AAAI/SIGAI Doctoral Consortium in 35th AAAI conference, February 7-12 2020, New York (Accepted, Extended Abstract and Poster)
84. Ryuta Arisaka, Makoto Hagiwara, and Takayuki Ito, Formulating Manipulable Argumentation with Intra-/Inter-Agent Preferences, The 22nd International Conference on Principles and Practice of Multi-Agent Systems (PRIMA 2019), October 28-31, 2019, Torino, Italy (Accepted, short paper)
85. Jin Tanda, Ahmed Moustafa, Takayuki Ito, Cooperative Behavior by Multi-agent Reinforcement Learning with Abstractive Communication, The 4th IEEE International Conference on Agents (IEEE ICA 2019), October 18-21, 2019, Jinan, China (Accepted).
86. Z. Marafie, K. Lin, D. Wang, H. Lyu, Y. Meng and T. Ito, "AutoCoach: Driving Behavior Management Using Intelligent IoT Services," 2019 IEEE 12th Conference on Service-Oriented Computing and Applications (SOCA), Kaohsiung, Taiwan, 2019, pp. 103-110. doi: 10.1109/SOCA.2019.00023
87. Ryuta Arisaka and Takayuki Ito, Semantics of Opinion Transitions in Multi-Agent Forum Argumentation, 2019 The 16th Pacific International Conference on Artificial Intelligence (PRICAI 2019), August 26-30, 2019, Yanuca Island, Fiji. (accepted)(Best Paper Award)
88. Daichi Shibata, Shota Suzuki, Ahmed Moustafa, Takayuki Ito, On Facilitating Large-Scale Online Discussions, 2019 The 16th Pacific International Conference on Artificial Intelligence (PRICAI 2019), August 26-30, 2019, Yanuca Island, Fiji. (accepted)
89. Shun Okuhara, Takayuki Ito, A Compromising Strategy Based on Constraint Relaxation for Automated Negotiating Agents, 2019 The 16th Pacific International Conference on Artificial Intelligence (PRICAI 2019), August 26-30, 2019, Yanuca Island, Fiji. (accepted)
90. Wen Gu, Ahmed Moustafa, Takayuki Ito, Minjie Zhang, Chunsheng Yang, A Case-based Reasoning Approach for Facilitating Online Discussions, 2019 The 16th Pacific International Conference on Artificial Intelligence (PRICAI 2019), August 26-30, 2019, Yanuca Island, Fiji. (accepted)

91. Shunya Kitagawa, Ahmed Moustafa, Takayuki Ito, Urban Traffic Control using Distributed Multi-Agent Deep Reinforcement Learning, 2019 The 16th Pacific International Conference on Artificial Intelligence (PRICAI 2019), August 26-30, 2019, Yanuca Island, Fiji. (accepted)
92. Wen Gu, Ahmed Moustafa, Takayuki Ito, Minjie Zhang and Chunsheng Yang, "Discussion Case Base Simulation for Case-based Reasoning based Online Discussion Facilitation", IJCAI 2019 Workshop on Smart Simulation and Modelling for Complex Systems (SSMCS2019), 2019
93. Shun Okuhara, Takayuki Ito, " A Moral-oriented Negotiation based on the Constraint-based Utility Graph Model", IJCAI 2019 Workshop on Agent-based Complex Automated Negotiations (ACAN), 2019 (Accepted).
94. Ryuta Arisaka, Jeremie Dauphin and Takayuki Ito, Facilitation in Abstract Argumentation with Abstract Interpretation, IJCAI 2019 Workshop on Agent-based Complex Automated Negotiations (ACAN), 2019 (Accepted).
95. Ryuta Arisaka and Takayuki Ito, Numerical Abstract Persuasion Argumentation for Expressing Concurrent Multi-Agent Negotiations, IJCAI 2019 Workshop on Agent-based Complex Automated Negotiations (ACAN), 2019 (Accepted).
96. Takayuki Ito, Shota Suzuki, Naoko Yamaguchi, Tomohiro Nishida, Kentaro Hiraishi, and Kai Yoshino, " Crowd Discussion for the Future of Your Hometown: An Agent-based Crowd Discussion Support System ", IJCAI 2019 Workshop on Artificial Intelligence and United Nations Sustainable Development Goals (AI4SDG), 2019 (accepted)
97. Shun Okuhara and Takayuki Ito, A Negotiation Strategy based on Compromising Degree, the 20th IEEE/ACIS International Conference on Software Engineering, Artificial Intelligence, Networking and Parallel/Distributed Computing (SNPD 2019), Toyama, Japan on July 8-10, 2019.
98. Takayuki Ito, Daichi Shibata, Shota Suzuki, Naoko Yamaguchi, Tomohiro Nishida, Kentaro Hiraishi, and Kai Yoshino, "Agent that Facilitates Crowd Discussion", The 7th ACM Collective Intelligence 2019, Carnegie Mellon University, Pittsburgh, USA, June 13-14, 2019

99. Chunsheng Yang, Takayuki Ito and Wen Gu, Toward case-based reasoning facilitation for online discussion in deliberation, 2019 IEEE 23rd International Conference on Computer Supported Cooperative Work in Design (IEEE CSCWD 2019), May 6-8, 2019, Porto, Portugal.
100. Naoko Yamaguchi, Tomohiro Nishida, Takayuki Ito, "An Annotation Scheme for Developing Prototype Automated Facilitation Software", PICMET '19 Conference), "Technology Management in the World of Intelligent Systems" , August 25 - 29, 2019 Hilton Portland and Executive Tower, Portland, Oregon, USA
101. Dave de Jonge, Tim Baarslag, Reyhan Aydogan, Catholijn Jonker, Katsuhide Fujita and Takayuki Ito, The Challenge of Negotiation in the Game of Diplomacy, The 6th International Conference on Agreement Technologies (AT2018), Bergen, Norway, 6-7 December 2018.
102. Naoko Yamaguchi, Takayuki Ito, Tomohiro Nishida, "A Method for Online Discussion Design and Discussion Data Analysis", The Thirteenth International Conference on Knowledge, Information and Creativity Support Systems (KICSS-2018) November 15-17, 2018 Pattaya, Thailand(Accepted)
103. Wen Gu, Ahmed Moustafa, Takayuki Ito, Minejie Zhang, Chunsheng Yang, "A Case-based Reasoning Approach for Automated Facilitation in Online Discussion Systems", The Thirteenth International Conference on Knowledge, Information and Creativity Support Systems (KICSS-2018) November 15-17, 2018 Pattaya, Thailand (Accepted)
104. Tang Xun, Ahmed Moustafa, Takayuki Ito, "The Design of Meta-Strategy that Can Obtain Higher Negotiating Efficiency", The Thirteenth International Conference on Knowledge, Information and Creativity Support Systems (KICSS-2018) November 15-17, 2018 Pattaya, Thailand (Accepted)
105. Tomoya Fukui, Ahmed Moustafa, Takayuki Ito, "Jupiter: An Automated Negotiation Environment for Supporting Agents that Use Machine Learning", The Thirteenth International Conference on Knowledge, Information and Creativity Support Systems (KICSS-2018) November 15-17, 2018 Pattaya, Thailand (Accepted)

106. **Takayuki Ito**, Towards Agent-based Large-scale Decision Support System: The Effect of Facilitator, The 51st Hawaii International Conference on System Sciences, Hilton Waikoloa Village, USA, January 3-6, 2018.
107. Ryoji Horita, Minoru Mitsui, **Takayuki Ito**, Shun Shiramatsu, Akihisa Sengoku, Katsuhide Fujita and Naoki Fukuta, A Design of Research Group Workshop to Generate Co-Creation Between Researchers and Citizens, The 12th International Conference on Knowledge, Information and Creativity Support Systems (KICSS 2017), Nagoya, Japan, Nov 9-11, 2017.
108. Tatsuya Toyama, Ahmed Moustafa and **Takayuki Ito**, On Measuring the Opposition Level Amongst Intelligent Agents in Multi-issue Closed Negotiation Scenarios, The 12th International Conference on Knowledge, Information and Creativity Support Systems (KICSS 2017), Nagoya, Japan, Nov 9-11, 2017.
109. Xun Tang, Ahmed Moustafa and **Takayuki Ito**, An Ordering Mechanism for Automated Negotiation Among Nonlinear Utility Agents, The 12th International Conference on Knowledge, Information and Creativity Support Systems (KICSS 2017), Nagoya, Japan, Nov 9-11, 2017.
110. Jawad Ahmad Haqbeen, **Takayuki Ito**, Mohammad Arifuzzaman, Takanobu Otsuka, "Joint Routing, MAC and Physical Layer Protocol for Wireless Sensor Networks", 2017 IEEE TENCON, IEEE Region Ten Conference, 11/5-8, 2017
111. Catholijn M. Jonker, Reyhan Aydogan, Tim Baarslag, Katsuhide Fujita, **Takayuki Ito** and Koen Hindriks, Automated Negotiating Agents Competition (ANAC), Proceedings of the Thirty-First AAAI Conference on Artificial Intelligence (AAAI-17), pp. 5070-5072, AAAI Press, 2017.
112. Tomohiro Nishida, Takayuki Ito, Takanori Ito, Eizo Hideshima, Shunpei Fukamachi, Akihisa Sengoku and Yumika Sugiyama, "Core Time Mechanism for Managing Large-Scale Internet-based Discussions on COLLAGREE", In the Proceedings of the 2nd IEEE International Conference on Agents (IEEE ICA2017), Beijin, China, 2017. (accepted, acceptance rate: 30%)
113. Daichi Shibata and Takayuki Ito, A Distributed Power Managing Method based on Power Grid Network Centrality, In Proceedings of the 2nd IEEE

- International Conference on Agents (IEEE ICA 2017), Beijing, China, 2017.
(accepted, acceptance rate: 30%)
114. Kwei-Jay Lin, Sen Zhou, Surong Yany and Takayuki Ito, "Service-Oriented Things: Delivering Smart Services Using Internet of Things", The 19th IEEE International Conference on Business Informatics (CBI2017), 2017.
 115. Rafik Hadfi, Masayuki Hayashi, **Takayuki Ito**, A Pipeline Multiagent Architecture for Road Traffic Simulation, ITS World Congress 2017 in Montréal, Québec, Canada (October 29 – November 2), 2017.
 116. Katsuhide Fujita, **Takayuki Ito**, Mark Klein, "Enabling Large Scale Deliberation using Ideation and Negotiation-Support Agents", The 37th IEEE International Conference on Distributed Computing (ICDCS 2017) US-Japan Workshop on Collaborative Global Research on Applying Information Technology, J.W. Marriott, Buckhead, Atlanta, GA, USA on June 5 – 6, 2017.
 117. Chunsheng Yang, Takayuki Ito, Yubin Yang, and Jie Liu. Developing machine learning-based models to estimate time to failure for PHM. In Proceedings of the 2016 IEEE International Conference on Prognostics and Health Management (ICPHM), pages 1–6. IEEE, 2016.
 118. **Takayuki Ito**, Takanobu Otsuka, Satoshi Kawase, Akihisa Sengoku, Shun Shiramatsu, Tokuro Matsuo, Tetsuya Oishi, Rieko Fujita, Naoki Fukuta, and Katsuhide Fujita, "Preliminary Results on A Large-scale Cyber-Physical Hybrid Discussion Support Experiment", The Eleventh 2016 International Conference on Knowledge, Information and Creativity Support Systems (KICSS 2016), Yogyakarta, Indonesia, 10 - 12 November 2016 (to appear).
 119. Jawad Ahmad Haqbeen, **Takayuki Ito**, Takanobu Otsuka, Mohammad Arifuzzaman, "Intelligent Cross-Layer Protocol with Traffic-Differentiation-Based QoS for Wireless Sensor Networks", IEEE TENCON 2016, 22 - 25 November 2016, Marina Bay Sands, Singapore, 2016 (accepted).
 120. Susel Fernandez, **Takayuki Ito**, Driver Classification for Intelligent Transportation Systems using Fuzzy Logic, 19th IEEE Intelligent Transportation Systems Conference, Rio de Janeiro, Brazil, November 1-4, 2016.

121. Pankaj Mishra, Rafik Hadfi and **Takayuki Ito**. "Role of Facial Emotion in Social Correlation". International Conference on Principles and Practice of Multi-Agent Systems (PRIMA-2016) (Extended Abstract-Under Student Session Scholarship), 22~26 August 2016, Phuket, Thailand
122. Pankaj Mishra, Rafik Hadfi and **Takayuki Ito**. "Adaptive Model for Traffic Congestion Prediction". The 29th International Conference on Industrial, Engineering & Other Applications of Applied Intelligent Systems (IEA/AIE2016), 2~4 August 2016, Morioka, Japan.
123. Wen Gu and **Takayuki Ito**. "Optimization of Road Distribution for Traffic System Based on Vehicle's Priority" 14th Pacific Rim International Conference on Artificial Intelligence(PRICAI2016),22 - 26 August, Phuket, Thailand, 2016
124. Pankaj Mishra, Rafik Hadfi and **Takayuki Ito**. "Role of Human Emotions in Social Influence". International Conference on Crowd Science and Engineering 2016 , 27~30 July 2016, Vancouver, Canada
125. Akihisa Sengoku, **Takayuki Ito**, Katsuhide Fujita, Shun Shiramatsu, Takanori Ito and Eizo Hideshima, "Towards Intelligent Crowd Decision Support: A Preliminary Result on Large-scale Discussion Support based on the Discussion Tree", International Conference on Crowd Science and Engineering (ICCSE2016), Vancouver, Canada, July 27-30, 2016.(Best Paper Award)
126. Pankaj Mishra, Rafik Hadfi and Takayuki Ito. "Social Influence Analysis based on Facial Emotions". IJCAI2016 2nd International Workshop on Social Influence Analysis (SocInf 2016) , 9~15 July 2016, New York, USA
127. Tomomichi Hayakawa, Ryo Suzuki, Takayuki Ito, "Development of River Information Management System According to the Participatory Sensing.", 15th IEEE/ACIS International Conference on Computer and Information Science (ICIS 2016) Special Session on Internet of Things for Smart Society (IoTSS 2016), 26 - 29 June, 2016, Okayama, Japan (ACCEPTED)
128. Yoshitaka Torii, Takanobu Otsuka, Takayuki ito, "A diversity Sensor connection capability WSN for Disaster Information Gathering System"15th IEEE/ACIS International Conference on Computer and Information Science

- (ICIS 2016) Special Session on Internet of Things for Smart Society (IoTSS 2016), 26 – 29 June, 2016, Okayama, Japan (ACCEPTED)
129. Xishun Wang, Minjie Zhang, Fenghui Ren, and **Takayuki Ito**, "GongBroker: A Broker Model for Power Trading in Smart Grid Markets", 2015 IEEE/WIC/ACM International Conference on Intelligent Agent Technology (IAT'15), Singapore December 6-9, 2015.
 130. Keisuke Hara and **Takayuki Ito**, "A Scoring Rule-based Truthful Demand Response Mechanism", In the Proceedings of the 14th IEEE/ACIS International Conference on Computer and Information Science (ICIS2015), June 28 - July 1, Las Vegas, U.S.A. (ACCEPTED AS FULL PAPER)
 131. Takanobu Otsuka, Yoshitaka Torii, **Takayuki Ito**, "Challenges and implementation of ad-hoc water gauge system for the grasp of internal water damage", 14th IEEE/ACIS International Conference on Computer and Information Science (IEEE/ACIS ICIS 2015) June 28 - July 1, 2015 Las Vegas, USA. (ACCEPTED AS SHORT PAPER)
 132. Sho Tokuda, Miguel Angel Lopez-Carmona, Ryo Kanamori, **Takayuki Ito**, "Parking Space Allocation System based on Automatic Negotiation with Vehicle", 14th IEEE/ACIS International Conference on Computer and Information Science (IEEE/ACIS ICIS 2015) June 28 - July 1, 2015 Las Vegas, USA. (ACCEPTED AS SHORT PAPER)
 133. Motoki Sato, **Takayuki Ito**, "Text Filtering for Harmful Document Classification Method Based on Paragraph Vector and Multi Layer Perceptron", 14th IEEE/ACIS International Conference on Computer and Information Science (IEEE/ACIS ICIS 2015) June 28 - July 1, 2015 Las Vegas, USA. (ACCEPTED AS SHORT PAPER)
 134. Akyuki Mori, Shota Morii **Takayuki Ito**, "A Dependency-based Automated Negotiation Mechanism for a Hypergraph Utility Model". In 4th International Congress on Advanced Applied Informatics. July 12-16, 2015, Okayama Convention Center, Okayama, Japan. (ACCEPTED)
 135. Makoto Niimi, **Takayuki Ito**, "Budget-limited multi-armed bandit problem with dynamic rewards and proposed algorithms". In 4th International

- Congress on Advanced Applied Informatics. July 12-16, 2015, Okayama Convention Center, Okayama, Japan. (ACCEPTED)
136. Sho Tokuda, Ryo Kanamori, **Takayuki Ito**, "A Traffic Simulator based on Modified Stochastic Cell Transmission Model to Road Network", The 19TH International Conference of Hong Kong Society for Transportation Studies (HKSTS2014), 13-15 December, 2014. (Accepted for oral presentation and publication in conference proceedings)
 137. Yuichi Enoki, Ryo Kanamori, and **Takayuki Ito**, "Managing Parking Fees based on Massive Parking Accounting Data", The 13th Pacific Rim International Conference on Artificial Intelligence (PRICAI2014), Gold Coast, Queensland, Australia December 1-5, 2014. (Accepted; Full paper)
 138. Sho Tokuda, Ryo Kanamori, **Takayuki Ito**, "Development of Traffic Simulator based on Stochastic Cell Transmission Model for Urban Network", 17th International Conference on Principles and Practice of Multi-Agent Systems (PRIMA2014), Gold Coast, Queensland, Australia, December 1-5, 2014. (Accepted; Full paper)
 139. Rafik Hadfi and **Takayuki Ito**, Approximating Constraint-based Utility Spaces using Generalized Gaussian Mixture Models, 17th International Conference on Principles and Practice of Multi-Agent Systems (PRIMA2014), Gold Coast, Queensland, Australia, December 1-5, 2014. (Accepted; Short paper)
 140. Ryo Kanamori and **Takayuki Ito**, A Dynamic Route-exchanging Mechanism for Anticipatory Traffic Management, 17th International Conference on Principles and Practice of Multi-Agent Systems (PRIMA2014), Gold Coast, Queensland, Australia, December 1-5, 2014. (Accepted; Short paper)
 141. Rafik Hadfi, Takayuki Ito. Modeling Complex Nonlinear Utility Spaces using Utility Hyper-graphs. The 11th International Conference on Modeling Decisions for Artificial Intelligence. Tokyo, Japan. October 29 - 31, 2014 (Accepted)
 142. Rafik Hadfi, **Takayuki Ito**, Addressing Complexity in Multi-Issue Negotiation via Utility Hypergraphs, In the Proceedings of the 28th AAI

- Conference on Artificial Intelligence (AAAI-14), July 27-31, 2014.(Poster; Accepted)
143. Rafik Hadfi and **Takayuki Ito**, Constraint-based Preferences via Utility Hyper-graphs, The 8th Multidisciplinary Workshop on Advances in Preference Handling (M-PREF14). July 27-28, 2014, Quebec, Canada, in conjunction with AAAI 2014. (Accepted)
 144. Kohei Hayakawa, Tomomichi Hayakawa, **Takayuki Ito**, “Implementation of an Event Information Sharing Support System Utilizing OpenStreetMap”, In the proceedings of the 27th International Conference on Industrial, Engineering & Other Applications of Applied Intelligent Systems (IEA-AIE 2014), June 3-6, 2014, in Kaohsiung, Taiwan. (Accepted,Full-paper)
 145. Yuta Iwama, **Takayuki Ito**, “Implementation of Question Answering System Based on Reference-based Ranking Algorithm” In the proceedings of the 27th International Conference on Industrial, Engineering & Other Applications of Applied Intelligent Systems (IEA-AIE 2014), June 3-6, 2014, in Kaohsiung, Taiwan.(Accepted,Full-paper)
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