

## CURRICULUM VITAE



**Takayuki Ito**

Doctor of Engineering

Professor,  
Graduate School of Engineering  
Nagoya Institute of Technology, Japan.

### **Personal Information**

NAME: Takayuki ITO  
DATE OF BIRTH: May 1st, 1972  
PLACE OF BIRTH: Komaki (near Nagoya), Japan  
NATIONALITY: Japan

### CONTACTING ADDRESS:

Shikumi College,  
Graduate School of Engineering,  
Nagoya Institute of Technology,  
Gokiso, Showa-ku, Nagoya 466-8555 JAPAN.  
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## **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**, Apr/2014 – current

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:**

Java, C++, Lisp, Prolog, C, Tcl/Tk, Perl, Python, Ruby, Ruby on Rails, shell scripts, VB, Javascript, AJAX, KL1(Klic), HyperCard, AppleScript.

### **RESEARCH GRANTS and SCHOLARSHIPS**

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.

Apr/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: Young 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**

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 5<sup>th</sup> 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)**

1. 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)**

1. **Takayuki Ito** and Toramatsu Shintani, "A Frame Representation Description Method for Knowledge Representation Markup Language KRML and its application", 2004.
2. 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.
3. 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.
4. 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.
5. 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.
6. 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 16<sup>th</sup> International Conference on Industrial and Engineering Applications of Artificial Intelligence and Expert Systems (IEA/AIE-2004)**

1. 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**

2. 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**

3. **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)**

**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 Methods 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. Katsuhide

### 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 4<sup>th</sup> 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

1. 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.
2. 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.

3. 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.
4. 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](http://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

1. 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.
2. 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.
3. asaki 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

1. 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.
2. 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

1. Invited Talk,"Automated Negotiation", Invited Seminar, University of California, Irvine, USA, Feb. 21, 2014.
2. Invited Talk, Theories and Technologies of Multiagent Systems for Future Social System, Dalian Neusoft University of Information, Dalian, China, 2013.08.19.
3. 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.
4. Keynote speech, "Introduction to Computational Mechanism Design", 4th International Symposium on Applied Informatics (ISAI 2013), IIAI, Tokyo, 2013.5.25.
5. AAMAS2013 Tutorial, "Agend-mediated Electronic Negotiations", AAMAS2013, Saint Paul, May 7th, 2013

6. 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.
7. Invited Talk, "Innovating Multiagent Algorithms for Smartcity", Invited Seminar, University of California, Irvine, USA, Dec 3, 2012.
8. 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.
9. Invited Talk, "Innovating Multiagent Algorithms for Smartcity", Invited Seminar, Wollongong University, Australia, 22 Nov. 2012.
10. Invited Talk, "Innovating Multiagent Algorithms for Smartcity", Invited Seminar, University of Technology, Sydney, Australia, 20 Nov. 2012.
11. Panelist, The Panel Session of The First International Workshop on Sustainable Enterprise Software (SES2011), IEEE-CEC2011 Workshop, Luxemburg, 2011.9.
12. "Towards Collaborative City Design Support for Sustainable Society", 2nd International Symposium on Applied Informatics (ISAI 2011), IIAI, 2011.8 (Keynote Address).
13. "Multi-Agent Automated Negotiation and its Application to Collective Collaboration System", Invited Seminar, University of California, Irvine (UCI), March 9, 2011.
14. "Multi-Agent Systems and its Application to Collaborative Design ", Invited Talk, Dalian Neusoft Institute of Information, China, Aug. 25, 2010.
15. "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.
16. "Automated Multi-issue Negotiation and its Application to Collaborative Design", Invited Seminar, Canada National Research Council, Ottawa, Canada, May 17, 2010.
17. "Multi-Agent Technologies for Clinical Data Applications", Clinica Data International Symposium, March 5th, 2010.
18. Invited Talk, "An Implementation of Interdependent Value Auctions",



Tsukuba University, Nov. 12, 2009.

19. 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).
20. AAMAS2012 Tutorial, "Agent-mediated Electronic Negotiations", Valencia, 2012.
21. AAMAS2011 Tutorial, "Agent-mediated Electronic Negotiations", Taipei, 2011.
22. AAMAS2010 Tutorial, "Agent-mediated Electronic Negotiations", 2010.
23. AAMAS2009 Tutorial on Complex Negotiations for Intractable Problems, May 2009.
24. AAMAS2008 Tutorial on Complex Negotiations for Intractable Problems, May 2008.
25. Invited Talk, "Efficient Business Process based on Multi-Agent Technologies and its Applications", Technology Seeds Seminars, Mechtronics-Technology Japan, Nagoya, Oct. 18, 2007.
26. FIT2007 Tutorial on "Electronic Market Technologies and their Applications", Sep. 7, 2007.
27. 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.
28. Invited Talks, "The Recent Web Business from the Viewpoint of Auctions and Electronic Commerce Algorithms ", Web Business Special Interest Group, March 30, 2007.
29. Invited Talk, "Interdependent Value Auctions and their Applications", Mechanism Design Symposium, Okinawa, Japan, March 21, 2007.
30. Invited Talk, "Technologies and Theories that Flatten the World : E-Commerce algorithms and Auctions", Invited Lecture, N-Cube, Nagoya, Japan.
31. Invited Talk, "Designing an Interdependent Value Auction", AAMAS Best Paper Special Talk, Joint Agent Workshop & Symposium (JAWS2006),

Japan.

32. Invited Talk, “Designing Auction Protocols under Asymmetric Information on Nature’s selection”, ECONCS Special Seminar, Harvard University, US.
33. Invited Talk, “Designing Auction Protocols under Asymmetric Information on Nature’s selection”, Invited Seminar, Canada National Research Council, Canada.
34. Invited Talk, “Agent-mediated Electronic Commerce: Theories and Applications”, Invited Seminar, Wollongong University, Australia.

## **PROFESSIONAL ACTIVITIES**

(Main activities)

### **Assessor:**

- Australia Research Council (ARC), assessor.

### **Board Member, Journal Editors, and Steering Committee:**

- Board Member, Japanese Society for Artificial Intelligence (JSAI), 2016-
- Steering Committee Member, Pacific Rim International Conference on Artificial Intelligence (PRICAI), 2016-
- Board Member, International Foundation on Autonomous Agents and Multi-Agent Systems (IFAAMAS), 2010 -2016
- Steering Committee Member, International Conference on Principles and Practice of Multi-Agent Systems (PRIMA), 2009 -
- IPSJ Editor, 2006-2009, Intelligent Group Sub-Editor-In-Chief 2009-2010, Intelligent Group Editor-In-Chief 2010-2011.
- JSAI Editor, 2008-2012

### **Organizing Chair / Program Chair:**

- International Conference on Autonomous Agents and Multi-Agent Systems (AAMAS) 2013, Program Chair.
- International Conference on Principles of Practice in Multi-Agent Systems (PRIMA) 2014, General Chair.
- International Conference on Principles of Practice in Multi-Agent Systems (PRIMA) 2009, Program Chair.

- International Workshop on Agent-based Complex Automated Negotiations (ACAN) 2008 - 2016, Organizing Chair.
- The 2014 7th IEEE International Conference on Service Oriented Computing and Applications (SOCA) 2014, Program Chair.
- International Workshop on Rational, Robust, and Secure Negotiations among Agents (RRS) 2006 -2007, Organizaing Chair.
- Pacific Rim International Workshop on Electronic Commerce (PRIWEC) 2006, Organizaing Chair.
- International Workshop on Electronic Commerce, Business and Services (E-CBS) 2008, Organizing Chair.

**Senior Program Committee (SPC) / Vice Chair / Publications Chair / Workshop Chair:**

- IEEE International Conference on Service Oriented Computing and Applications (SOCA2013), 2013, Workshop Chair.
- International Joint Conference on Artificial Intelligence (IJCAI), 2009, 2011,2013. Senior Program Committee (SPC).
- The 25th AAAI Conference on Artificial Intelligence (AAAI-11) , 2011. Senior Program Committee (SPC).
- International Joint Conference on Autonomous Agents and Multi-Agent Systems (AAMAS), 2007 - 2008, 2011, Senior Program Committee (SPC). Also, Publications Chair in 2006.
- International Conference on Web Intelligence (WI), 2008. PC Vice Chair.

**Program Committee:**

- The 9th International Conference on Practical Applications of Agents and Multi-Agent Systems (PAAMS2011), 2011.
- The 19th European Conference on Artificial Intelligence (ECAI2010), 2010.
- The Twenty-Fourth AAAI Conference on Artificial Intelligence (AAAI2010,2012), 2010,2012.
- International Conference on Industria and Engineering Applications of Artificial Intelligence and Expert Systems (IEA/AIE), 2004 - 2011.
- International Workshop on Data Engineering Issues in E-Commerce and

Services (DEECS), 2005 - 2008.

- International Joint Conference on Autonomous Agents and Multi-Agent Systems (AAMAS), 2005 - 2006, 2009-.
- International Workshop on Agent-mediated Electronic Commerce (AMEC), 2009, 2011.
- ACM International Conference on Electronic Commerce (ACM-EC), 2007.
- International Conference on e-Business (ICE-B), 2006 - 2008.
- International Joint Conference on Knowledge Science (IJCKS), 2007 - 2008.
- Pacific Rim International Conference on Multi-Agents (PRIMA), 2008.
- International Workshop on Human Factors and Computational Models in Negotiations (HuCOMo8), 2008.
- ACM-SAC Agreement Technology, 2009.
- The 3rd International Conference on Knowledge Science, Engineering, and Management (KSEM), 2009.
- JSAI Conferences 2006 - 2007.
- IPSJ FIT 2007.
- MACC 2001
- Joint Agent Workshop & Symposium (JAWS), 2002 - 2010.

**Tutorial:**

AAMAS 2008 Tutorial, "Complex Negotiations for Intractable Problems"

AAMAS 2009 Tutorial, "Complex Negotiations for Intractable Problems"

AAMAS 2011 Tutorial, "Complex Negotiations for Intractable Problems"

AAMAS 2012 Tutorial, "Complex Negotiations for Intractable Problems"

AAMAS 2013 Tutorial, "Complex Negotiations for Intractable Problems"

AAMAS 2014 Tutorial, "Complex Negotiations for Intractable Problems"

**Chair on SIG :**

IPSJ SIG Intelligence and Complex Systems, Chair, 2005-2008

**Reviewer/ Guest Editor:**

Artificial Intelligence Journal, International Journal on Multi-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,  
AAAI, etc.

### **CAUSES TAUGHT**

#### Causes in Japan Advance Institute of Science and Technology (JAIST)

Oct/2001 – Nov/2002 (Third Quarter): (in English)

K615: Advanced Topics on New Generation Knowledge-based Systems.

Jun/2002 – Jul/2002 (Second Quarter):

K212: Methodology on Knowledge-bases (Advanced Java Programming).

Oct/2002 – Nov/2002 (Third Quarter):

K415: Knowledge Systems

#### Causes in Nagoya Institute of Technology (NIT)

Apr/2003 – Sep/2003:

“Computer Systems”, 2nd grade undergraduate students in dept. of Intelligence and Computer Science.

Apr/2003 – Sep/2003:

“Computer Architectures”, 3rd grade undergraduate students in dept. of Intelligence and Computer Science.

Apr/2003 – Sep/2003:

“Knowledge Systems”, graduate students in Graduate School of Engineering.

Nov/2003 – Mar/2004:

“Intelligence and Computer Science Special Lectures”, 2nd grade undergraduate

students in dept. of Intelligence and Computer Science.

Apr/2004 – Sep/2004:

“Computer Architectures”, 3rd grade undergraduate students in dept. of Intelligence and Computer Science.

Apr/2004 – Sep/2004:

“Programming I”, 1st grade undergraduate students of dept. of Intelligence and Computer Science. (NOTE: the num of students is 120).

Apr/2004 – Sep/2004:

“Information Technology”, 1st grade undergraduate students of dept. of Intelligence and Computer Science.

Apr/2004 – Sep/2004:

“Knowledge Systems”, graduate students in Graduate School of Engineering.

Feb/2005 – Feb / 2006:

Visiting Scholar, Harvard University

Visiting Scientist, MIT

Apr/2006 – Sep/2006:

“Intelligent Algorithms”, 3rd grade undergraduate students of dept. of Computer Science.

Apr/2006 – Sep/2006:

“Programming I”, 1st grade undergraduate students of dept. of Computer Science.

Apr/2006 – Sep/2006:

“Information Technology I”, 1st grade undergraduate students of dept. of Computer Science.

Apr/2006 – March/2006:

“Case Research Seminar”, 1st grade graduate students of School of Techno-Business Administration.

Oct/2006 – March/2006:

“Computer Engineering II”, 2nd grade undergraduate students of dept. of Computer Science.

Oct/2006 – March/2006:

“Electronics and Information core technologies special lecture”, 1st grade graduate students of School of Techno-Business Administration.

Oct/2006 – March/2006:

“Programming II”, 1st grade undergraduate students of dept. of Computer Science.

Oct/2006 – March/2006:

“Information Technology II”, 1st grade undergraduate students of dept. of Computer Science.

Apr/2007 – Sep/2007:

“Intelligent Algorithms”, 3rd grade undergraduate students of dept. of Computer Science.

Apr/2007 – Sep/2007:

“Programming I”, 1st grade undergraduate students of dept. of Computer Science.

Apr/2007 – Sep/2007:

“Information Technology I”, 1st grade undergraduate students of dept. of Computer Science.

Apr/2007 – March/2007:

“Case Research Seminar”, 1st grade graduate students of School of Techno-Business Administration.

Oct/2007 – March/2007:

“Electronics and Information core technologies special lecture”, 1st grade graduate students of School of Techno-Business Administration.

Apr/2008 – Sep/2008:

“Intelligent Algorithms”, 3rd grade undergraduate students of dept. of Computer Science.

Apr/2008 – Sep/2008:

“Programming I”, 1st grade undergraduate students of dept. of Computer Science.

Apr/2008 – Sep/2008:

“Information Technology I”, 1st grade undergraduate students of dept. of Computer Science.

Apr/2008 – Sep/2008:

“Case Research Seminar”, 1st grade graduate students of School of Techno-Business Administration.

Sep/2008 – Aug/2009:

MIT Visiting Scientist

Oct/2009 – March/2009:

“Electronics and Information core technologies special lecture”, 1st grade graduate students of School of Techno-Business Administration.

Oct/2009 – March/2009:

“Case Research Seminar”, 1st grade graduate students of School of Techno-Business Administration.



Causes in Nagoya University

Oct/2009 – March /2009:

“Advances in Electrics, Electronics, and Informatics” in 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

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## **PUBLICATIONS**

Takayuki Ito

### **Books, Chapters in Books**

1. Ivan Marsa-Maestre, Miguel A. Lopez-Carmona, Takayuki ITO, Minjie Zhang, and Katsuhide Fujita, "Novel Insights in Agent-based Complex Automated Negotiation", Series of Studies in Computational Intelligence 535, Springer-Verlag, ISBN978-4-431-54757-0, March 5, 2014.
2. Takayuki ITO, Minjie ZHANG, Valentin Robu, and Tokuro Matsuo, "Complex Automated Negotiations: Theories, Models, and Software Competitions", Series of Studies in Computational Intelligence 435,

- Springer-Verlag, ISBN 978-3-642-30736-2, 2012.
3. Takayuki ITO, Minjie ZHANG, Valentin Robu, Shaheen Fatima, and Tokuro Matsuo, "New Trends in Agent-Based Complex Automated Negotiations", Series of Studies in Computational Intelligence, Springer-Verlag, 2011, ISBN 978-3-642-24695-1, 2011.
  4. Takayuki ITO, Minjie ZHANG, Valentin Robu, Shaheen Fatima, Tokuro Matsuo and Hirofumi Yamaki(Eds.), "Innovations in Agent-Based Complex Automated Negotiations", Series of Studies in Computational Intelligence, Springer-Verlag, 2010, ISBN 978-3-642-15611-3, 2010.
  5. Jung Jin Yang, Makoto Yokoo, Takayuki Ito, Paul Scerri, and Zhi Jin, "Principles of Practice in Multi-Agent Systems: 12th International Conference, PRIMA 2009, Nagoya, Japan, December 14-16, 2009, Proceedings," LNCS/LNAI, Vol. 5925 , 2009, ISBN: 978-3-642-11160-0.
  6. **Takayuki ITO**, Minjie ZHANG, Valentin Robu, Shaheen Fatima and Tokuro MATSUO (Eds.), "Advances in Agent-Based Complex Automated Negotiations", Series of Studies in Computational Intelligence, Springer-Verlag, 2009. ISBN 978-3-642-03189-2.
  7. **Takayuki ITO**, Hiromitsu HATTORI, Minjie ZHANG, and Tokuro MATSUO (Eds.), "Rational, Robust, and Secure Negotiations in Multiagent Systems", Series of Studies in Computational Intelligence, Springer-Verlag, ISBN 978-3-540-76281-2,2008.
  8. Makoto YOKOO, **Takayuki ITO**, Tokuro MATSUO, Minjie ZHANG, and Juhnyoung LEE (Eds.), "Electronic Commerce : Mechanism Design and Applications", Series of Studies in Computational Intelligence, Springer-Verlag, ISBN 978-3-540-77808-0 2008.
  9. **Takayuki ITO**, Hiromitsu HATTORI, Minjie ZHANG, and Tokuro MATSUO (Eds.), "Rational, Robust, Secure Negotiations in Multiagent Systems", IEEE Computer Society, 2006.
  10. **Takayuki Ito**, Chapters on Electronic Commerce Support and Multi-Agent Systems in "Knowledge Science : 64 Keywords that restructuring knowledge", Kinokuniya Books, Nov. 2002. (in Japanese)
  11. **Takayuki Ito**, Chapter on Coalition Formation in "Artificial Intelligence Encyclopedia", Japan Society of Artificial Intelligence, 2003 . (in Japanese)

### **Guest Editorial (main):**

1. Quan Bai, Takayuki Ito and Minjie Zhang (Eds.), Guest Editorial: Special Issue on Automated Negotiation Technologies and their Applications, in Decision Support Systems, accepted in October 2011 and will be published in 2013. (This Journal DSS was ranked ¥A\*" in former ERA 2010, Five-year Impact Factor: 2.33)
2. Minjie Zhang, Takayuki Ito and Tokuro Matsuo (Eds.), Guest Editorial: Special Issue on Automated Negotiation Techniques in Multiagent Systems, in Computational Intelligence, 2012. (Computational Intelligence was ranked ¥A" in former ERA 2010, 2012 Impact Factor: 0.971)
3. Minjie Zhang and Takayuki Ito (Eds.), Guest Editorial: Special Issue on Advances in Agent-mediated Automated Negotiations, in Multiagent and Grid Systems, Vol. 6, No. 5-6, IOS Press, 2010. (This Journal was ranked ¥B" in former ERA 2010 and published many reputable papers in the area of agent and multi-agent systems)
4. Minjie Zhang, Takayuki Ito, (Eds.), Guest Editorial: Special Issue on Complex Negotiation and Scheduling in Multi-Agent Systems, in International Transactions on Systems Science and Applications, 2009.

### **Rigorously Refereed International Conference Papers**

1. Rafik Hadfi, Takayuki Ito, Addressing Complexity in Multi-Issue Negotiation via Utility Hypergraphs, In the Proceedings of the 28th AAAI Conference on Artificial Intelligence (AAAI-14), 2014.(Poster; Accepted)
2. Takayuki Ito, Yuma Imi, Takanori Ito, and Eizo Hideshima, "COLLAGREE: A Faciliator-mediated Large-scale Consensus Support System", Collective Intelligence 2014, June 10-12, 2014. MIT Cambridge, USA. (poster)
3. Valentin Robu, David Parkes, Takayuki Ito, Nick Jennings, "Efficient Interdependent Value Combinatorial Auctions with Single-Minded Bidders", In the Proceedings of IJCAI 2013, Beijing, China, on August 3-9, 2013 (to appear; full paper; oral presentation; poster presentation).
4. Keisuke Hara, Takayuki Ito, A Mediation Mechanism for Automated Negotiating Agents whose Utility Changes over Time, In the Proceedings of

- the 27th AAAI Conference on Artificial Intelligence (AAAI-13), 2013.(Poster; Accepted)
5. Ivan Marsa-Maestre, **Takayuki Ito**, Katsuhide Fujita, Miguel A. Lopez-Carmona, Juan R. Velasco, Mark Klein,"Balancing Utility and Deal Probability for Negotiations in Highly Nonlinear Utility Spaces", In the Proceedings of the Twenty-First International Joint Conference on Artificial Intelligence (**IJCAI-09**) , July 11 - 17 in Pasadena, California, pp.214-219, 2009.
  6. Katsuhide Fujita, **Takayuki Ito**, Mark Klein, " Approximately Fair and Secure Protocols for Multiple Interdependent Issues Negotiation", The Eighth International Joint Conference on Autonomous Agents and Multi-Agent Systems (**AAMAS2009**), pp.1287–1287, Budapest, Hungary, 2009. (Poster)
  7. Masashi Iwakami, **Takayuki Ito**, Joaquin Delgado, "A Dynamic Interest Rate Adjusting Mechanism for Online Social Lending", In the Proceedings of the Eighth International Joint Conference on Autonomous Agents and Multi-Agent Systems (**AAMAS2009**), pp. 1283-1284, 2009 (Poster).
  8. Katsuhide Fujita,**Takayuki Ito**, Mark Klein, " A Preliminary result on a representative-based multi-round protocol for multi-issue negotiations ", In the Proceedings of the Seventh International Joint Conference on Autonomous Agents and Multi-Agent Systems (**AAMAS2008**), pp.1573-1576, 2008 (Short Paper).
  9. David Sarne, Sarit Kraus, **Takayuki Ito**, "Scaling-Up Shopbots - a Dynamic Allocation-Based Approach", In the Proceedings of the Sixth International Joint Conference on Autonomous Agents and Multi-Agent Systems (**AAMAS2007**), 2007.(Full Paper) Acceptance rate : 22%.
  10. Hiromitsu Hattori, **Takayuki Ito**, Mark Klein "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).
  11. Florin Constantin, David Parkes, **Takayuki Ito**, " Online auctions for bidders with interdependent values", In the Proceedings of the Sixth International Joint Conference on Autonomous Agents and Multi-Agent

- Systems ([AAMAS2007](#)), 2007 (Poster).
12. **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, pp. 1347- 1352, 2007
  13. **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).
  14. **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.
  15. Tokuro Matsuo, **Takayuki Ito**, Robert Day, Toramatsu Shintani "A Robust Combinatorial Auction Mechanism against Shill Bidders", In the Proceedings of the Fifth International Joint Conference on Autonomous Agents and Multi-Agent Systems ([AAMAS2006](#)), 2006.
  16. **Takayuki Ito**, Mark Klein, "A Multi-Issue Negotiation Protocol among Competitive Agents based on Auctions", In the Proceedings of the Fifth International Joint Conference on Autonomous Agents and Multi-Agent Systems ([AAMAS2006](#)), 2006.
  17. **Takayuki Ito**, Makoto Yokoo, Shigeo Matsubara, and Atsushi Iwasaki "A New Strategyproof Greedy-Allocation Combinatorial Auction Protocol and its Extension to Open Ascending Auction Protocol" In the Proceedings of the Twentieth National Conference on Artificial Intelligence ([AAAI2005](#)), 2005.
  18. **Takayuki Ito**, Makoto Yokoo, and Shigeo Matsubara, "A Combinatorial Auction among Versatile Experts and Amateurs" In the Proceedings of the Third International Joint Conference on Autonomous Agents and Multi-Agent Systems ([AAMAS2004](#)), 2004.
  19. Tokuro Matsuo, **Takayuki Ito**, and Toramatsu Shintani, "A Qualitative-Quantitative Methods-Based e-Learning Support System in Economic Education", In the Proceedings of the 19th National Conference on Artificial Intelligence ([AAAI-2004](#)), 2004 . **Takayuki Ito**, Makoto Yokoo, and Shigeo Matsubara, "Towards a Combinatorial Auction Protocol among



Experts and Amateurs: The Case of Single-Skilled Experts," In the Proceedings of the Second International Joint Conference on Autonomous Agents and Multi-Agent Systems ([AAMAS2003](#)), pp.481-488, 2003.

20. **Takayuki Ito**, Makoto Yokoo, and Shigeo Matsubara, "Designing an Auction Protocol under Asymmetric Information on Nature's Selection," In the Proceedings of the International Joint Conference on Autonomous Agents and Multi-Agent Systems ([AAMAS2002](#)), Bologna, Italy, July 15-19, pp.61-68, 2002.
21. **Takayuki ITO** and Toramatsu SHINTANI.: ``Persuasion among Agents : An Approach to Implementing a Group Decision Support System Based on Multi-Agent Negotiation", *In the Proceedings of the 15th International Joint Conference on Artificial Intelligence (IJCAI-97)*, pp.592-597, Morgan Kaufmann Publishers, Inc., 1997.

### **International Journal**

1. Raiye Hailu, Takayuki Ito, "Efficient Deal Identification by Constraint Relaxation for Collaborative Decision Making Using Negotiation", *Journal of Advanced Computational Intelligence and Intelligent Informatics (JACIII)*, Vol. 18, No.4, 2014 (to appear).
2. Shantanu Chakraborty, Takayuki Ito, "Smart Pricing Scheme: A Multi-layered Scoring Rule Application", *International Journal: Expert Systems and Application (Elsevier)*, Volume 41, Issue 8, Pages 3726–3735 (IF=2.339), 15 June 2014.
3. 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). (Selected as a Specially Selected Paper)
4. Satoshi Takahira, Ryo Kanamori, and Takayuki Ito, "Experiment on Activity-Travel Survey System based on Scheduling System", *Journal of Information Processing*, IPSJ, Vol.22, No.2, 2014 (accepted).
5. Ryo Kanamori, Jun Takahashi, and Takayuki Ito, "Evaluation of Traffic Management Strategies with Anticipatory Stigmergy", *Journal of Information Processing*, IPSJ, Vol.22, No.2, 2014 (accepted).

6. Shantanu Chakraborty, Takayuki Ito, Tomonobu Senjyu, "Fuzzy Logic Based Thermal Generation Scheduling Strategy with Solar-Battery System Using Advanced Quantum Evolutionary Method," IET-Generation, Transmission and Distribution, Volume 8, No.3, pages 410-420, March 2014 (IF=1.41).
7. Takanobu Otsuka, Takayuki Ito, "Flexible WSNs Aims Easy Installation With Noise Reduce Method For Elderly People Care", The International Journal of Networked and Distributed Computing, ISSN (print): 2211-7938/ ISSN (on-line), Volume 1, Issue 3, pp.2211-7946, July 2013(Invited Paper).
8. Shantanu Chakraborty, Takayuki Ito, Tomonobu Senjyu, AY Saber, Intelligent Economic Operation of Smart-grid Facilitating Fuzzy Advanced Quantum Evolutionary Method. IEEE Transactions on Sustainable Energy, Volume 4, issue 4, p. 905-916, October 2013.
9. Tim Baarslag, Katsuhide Fujita, Enrico Gerding, Koen Hindriks, Takayuki Ito, Nick R. Jennings, Catholijn Jonker, Sarit Kraus, Raz Lin, Valentin Robu, Colin Williams, Evaluating Practical Negotiating Agents: Results and Analysis of the 2011 International Competition, Artificial Intelligence Journal (AIJ), Elsevier Science, Vol. 198, May 2013, pp. 73-103, 2013. (DOI:10.1016/j.artint.2012.09.004)(IF=2.511)
10. Katsuhide Fujita, Takayuki Ito, Mark Klein "Efficient issue-grouping approach for multiple interdependent issues negotiation between exaggerator agents", Decision Support Systems, 6 June 2013, ISSN 0167-9236, <http://dx.doi.org/10.1016/j.dss.2013.05.016>.. (IF=2.135)
11. Shantanu Chakraborty, Takayuki Ito, Tomonobu Senjyu, Ahmed Y Saber, "Unit Commitment Strategy of Thermal Generators by Using Advanced Fuzzy Controlled Binary Particle Swarm Optimization Algorithm", International Journal of Electrical Power and Energy Systems, Volume 43, issue 1 (December, 2012), p. 1072-1080. ISSN: 0142-0615 DOI: 10.1016/j.ijepes.2012.06.014, Elsevier Science, 2012(IF=3.43).
12. Hiroki Nakagawa, Akihiko Nagai, Takayuki Ito, "A Middle-Agent Framework Focused on the Role of Distributors", Journal of Information Processing, Information Processing Society of Japan (IPSJ), Vol. 53, No. 5,

2012-05-15.).

13. Katsuhide Fujita, Takayuki Ito, and Mark Klein, "An Approach to Scalable Multi-issue Negotiation: Decomposing the Contract Space", Computational Intelligence. doi: 10.1111/j.1467-8640.2012.00462.x., 2012.
14. Iván Marsá Maestre, Miguel Angel Lopez Carmona, Mark Klein, Takayuki Ito, "Addressing Stability Issues in Mediated Complex Contract Negotiations for Constraint-based, Non-monotonic Utility Spaces", Journal of Autonomous Agents and Multi-Agent Systems (IF = 1.51), 2011.
15. Yuhong Liu, Chunsheng Yang, Yubin Yang, Fuhua Lin, Xuanmin Du, and Takayuki Ito, "Case Learning for CBR-Based Collision Avoidance Systems", International Journal of Applied Intelligence (IF=0.998), 2010.
16. Katsuhide Fujita, Takayuki Ito, and Mark Klein: "Representative-based Multi-Round Protocol for Multiple Interdependent Issues Negotiations", Journal of Multiagent and Grid Systems, ios press, 2010 (accepted).
17. Masao Kobayashi, Takayuki Ito, and Satoshi Ando, "Auction Network Trust: Evaluating User Reputations From Trading Relationships in Electronic Commerce Networks", Web Intelligence and Agent Systems: An International Journal, IOS Press, 2010 (accepted).
18. Katsuhide Fujita, **Takayuki Ito**, and Mark Klein, "Secure and Efficient Protocols for Multiple Interdependent Issues Negotiation," Journal of Intelligent and Fuzzy Systems, 2009 (to appear).
19. Naoki Fukuta and **Takayuki Ito**, Fine-grained efficient resource allocation using approximated combinatorial auctions, Web Intelligence and Agent Systems: An International Journal No.5, pp. 1-21, IOS Press, 2009.
20. Katsuhide Fujita, Takayuki Ito, "An Analysis of Computational Complexity of the Threshold Adjusting Mechanism in Multi-Issue Negotiations", International Transactions on Systems Science and Applications, SIWN, Vol.4, No.4, pp.305-311, 2008.
21. **Takayuki Ito**, Mark Klein, and Hiromitsu Hattori: "A Multi-Issue Negotiation Protocol among Agents with Nonlinear Utility Functions: A Preliminary Report", Journal of Multiagent and Grid Systems, ios press, Vol 4, No. 1, 2008
22. **Takayuki Ito**, Makoto Yokoo, Shigeo Matsubara, and Atsushi Iwasaki:

- "Implementing A Strategyproof Greedy-Allocation Combinatorial Auction and Extending to Ascending Auction," Systems and Computers in Japan, John Wiley & Sons, Inc., 2006 (to appear).
23. Tokuro MATSUO, **Takayuki ITO**, Toramatsu SHINTANI, "A New Approach to Detecting Shill Bids in e-Auctions", International Journal of Intelligent Information and Database Systems (IJIIDS), 2008.
  24. Hiormitsu Hattori and **Takayuki Ito**, "A Quick Adaptation Method for Constraint Satisfaction in a Real-time Environment", International Journal of Computer Science and Network Security, 2006 (to appear).
  25. Masaaki Tanaka, Tokuro MATSUO, **Takayuki Ito**, Tadachika Ozono, Toramatsu SHINTANI, "An Intelligent Work-Study Support System based on Interactive Web Guide", International Journal of Advanced Computational Intelligence and Intelligent Informataics (JACIII), 2006.
  26. Masaaki Tanaka, Tokuro MATSUO, **Takayuki Ito**, Tadachika Ozono, Toramatsu SHINTANI, "An Interactive Learning System in Elementary Schools", International Journal of Computer Science and Network Security, Vol. 6, No. 4, pp.20-25, 2006.
  27. Nakoki Fukuta and **Takayuki Ito**, "Comparing Semantic Web Service Frameworks in a Context of Auction Services," In the International Journal of Computer Science and Network Security, 2006 (to appear).
  28. Tokuro Matsuo, Masaki Komatsu, **Takayuki Ito**, and Toramatsu Shintani : "Q-SEE: Qualitative Simulation Support System in Economic Education", Journal of Advanced Computational Intelligence and Intelligent Informatics, jc10-2437, Vol. 10, 2005 (to appear).
  29. Ahlem Ben Hassine, **Takayuki Ito**, and Ho Tu Bao, : "Meeting Scheduling Solver Enhancement with Local Consistency Reinforcement", Applied Intelligence, Kluwer Academic Publishers, inc., 2005 (to appear). ([a selected paper](#) in IEA/AIE2004)
  30. **Takayuki Ito**, Shigeo Matsubara, and Makoto Yokoo,: "Towards a Combinatorial Auction Protocol among Experts and Amateurs: The Case of Single-Skilled Experts," Systems and Computers in Japan, John Wiley & Sons, Inc., 2005 (to appear).
  31. Tokuro MATSUO, **Takayuki ITO**, "A Group Formation Support System

based on Substitute Goods in Group Buying", Systems and Computers in Japan, John Wiley & Sons, Oct. 2003 .

32. **Takayuki Ito**, Hiromitsu Hattori, and Toramatsu Shintani,: `` A Cooperative Exchanging Mechanism among Seller Agents for Group-based Sales," in the International Journal of Electronic Commerce Research and Applications (ECRA), Elsevier Science, Vol. 1, No. 2, pp.138-149, Oct. 2002 (an invited paper in PAISO1).
33. **Takayuki Ito**, Hiroyuki Ochi, and Toramatsu Shintani,: ``A Group Buy Protocol based on Coalition Formation for Agent-mediated E-Commerce," in the International Journal of Computer and Information Science( IJCIS), Vol. 3, No.1, pp. 11-20, March 2002. (a selected paper in SNPD01).
34. **Takayuki Ito** and Toramatsu Shintani,: ``Persuasion among Agents Based on Exchanging for Cooperative Scheduling," Systems and Computers in Japan, John Wiley & Sons, Inc., Vol.30, No.7, pp.1-8, June 30, 1999.
35. **Takayuki Ito** and Toramatsu Shintani,: ``An Utility Revision Mechanism based on User's Subjective Decision Hierarchy for Multi-agent based Group Decision Support Systems," Journal of Advanced Computational Intelligence, Vol.3, No.3, pp.207-211, 1999.
36. **Takayuki Ito** and Toramatsu Shintani,: ``A Mechanism of Persuasion Among Agents for Group Choice Design Support Systems," Systems and Computers in Japan, Vol.29, No.5, pp.20-28, John Wiley & Sons, Inc., May, 1998.

### **Journal (in Japanese)**

1. Ryo KANAMORI, Takayuki MORIKAWA, Masaya OKUMIYA, Toshiyuki YAMAMOTO and Takayuki ITO: THE IMPACT OF ELECTRIC VEHICLE ON TRAVEL DEMAND AND ELECTRICAL DEMAND, Journal of Japan Society of Civil Engineers, Ser. D3 (Infrastructure Planning and Management), Vol.68, No.5, 2012.12.
2. Katsuhide Fujita, Takayuki Ito, and Mark Klein, "An Automated Consensus Mechanism based on Adjustment of Issue-Groups for Multi-issue Negotiation", The Transactions of The Information Processing Society of Japan (IPSJ), 2011 (to appear).

3. Takayuki Ito, "Multi-Agent Automated Negotiation Mechanisms and their Applications to Collective Collaboration Support", Management Systems, Japan Industrial Management Association, Vol.20, No.5, Dec, 2010.
4. Katsuhide Fujita, Takayuki Ito, and Mark Klein, "Scalable and Efficient Protocols by Grouping Issues in Multiple Interdependent-Issue Negotiations", Japan Society of Artificial Intelligence (JSAI), 2010 (to appear).
5. Takayuki Ito, "Multi-Agent Automated Negotiation Models and their Applications", Journal of Japan Society for Fuzzy Theory and Intelligent Informatics, Vol.22, No.3, pp.295-302, 2010.
6. Katsuhide Fujita, **Takayuki Ito**, and Mark Klein, "Secure and Scalable Protocols for Multiple Interdependent Issues Negotiations", IEEJ Transaction on Electronics, Information and Systems (Sec. C), Vol. 130, No.4, 2010 (to appear).
7. Masao Kobayashi, Tetsushi Ando, and **Takayuki Ito**, "Auction Network Trust : A Reputation Mechanism based on Users' Relationships in E-Commerce Networks" Transactions of The Institute of Electronics, Information and Communication Engineers (IEICE), 2009 (**IN JAPANESE**) (to appear).
8. **Takayuki Ito**, "Computational Mechanism Design," Computer Software (The Journal of JSSST), Japan Society for Software Science and Technology (JSSST), 2008. (**IN JAPANESE**).
9. 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. (**IN JAPANESE**).
10. Naoki Fukuta and **Takayuki Ito**, "Towards Approximated Short Cycle Reallocation on Combinatorial Auctions," Computer Software (The Journal of JSSST), Japan Society for Software Science and Technology (JSSST), 2008. (**IN JAPANESE**) (to appear).
11. Hiromitsu Hattori, **Takayuki Ito**, and Mark Klein, "Using Iterative Narrowing to Enable Multi-Party Negotiations with Multiple

- Interdependent Issues", Transactions of The Institute of Electronics, Information and Communication Engineers (IEICE), D-I, Vol. J90-D, No.9, pp.2336-2348, 2007 (IN JAPANESE).
12. Naoki Fukuta and **Takayuki Ito**, "An analysis about approximated allocation algorithms of combinatorial auctions with large numbers of bids", Transactions of The Institute of Electronics, Information and Communication Engineers (IEICE), D-I, Vol. J90-D, No.9, pp.2324-2335, 2007. (IN JAPANESE).
  13. **Takayuki Ito**, and David C. Parkes, "Desigining A Truthful Combinatorial Auction based on Interdependant Value Model", Transactions of The Institute of Electronics, Information and Communication Engineers (IEICE), D-I, Vol. J90-D, No.5, pp.1219-1228, 2007. (IN JAPANESE).
  14. **Takayuki Ito**, and David C. Parkes, "A Truthful Interdependent Value Auction based on Contingent Bids", Transactions of The Institute of Electronics, Information and Communication Engineers (IEICE), D-I, Vol. J90-D, No.5, pp.1209-1218, 2007. (IN JAPANESE).
  15. Hiromitsu Hattori, **Takayuki Ito**, and Mark Klein, "An Auction-based Negotiation Protocol for Agents with Nonlinear Utility Functions", Transactions of The Institute of Electronics, Information and Communication Engineers (IEICE), VOL. J89-D, No. 12, pp.2648-2660, 2006. (IN JAPANESE)
  16. Tokuro MATSUO, **Takayuki Ito**, Toramatsu SHINTANI, "An Environment Education Support System based on Qualitative Simulation", Transactions of Personal Computer Users' Application Technology Association, pp.3-10, 2006.
  17. **Takayuki Ito**, Makoto Yokoo, Shigeo Matsubara, and Atsushi Iwasaki, "Desiging A New Strategy-proof Greedy-Allocation Combinatorial Auction Protocol and Extending it to Open Ascending Auction Protocol", Transactions of The Institute of Electronics, Information and Commnunication Engineers (IEICE), VOL. J89-D, No. 5, pp.943-953, 2006. (IN JAPANESE)
  18. Kentaro Nishi, Noriharu Tashiro, Tokuro Matsuo, **Takayuki Ito**, and Toramatsu Shintani, "Implementing an Online Writable Web Page System

and Its Applications", IEEJ Transaction on Electronics, Information and Systems, The Institute of Electrical Engineers of Japan, 2005 . (IN JAPANESE)

19. **Takayuki Ito**, Makoto Yokoo, and Shigeo Matsubara, "A Combinatorial Auction among Versatile Experts and Amateurs" Journal of Japanese Society for Artificial Intelligence (JSAI), Vol. 20, No. 2, pp.84-93, 2005. (IN JAPANESE)
20. Hiromitsu HATTORI, Atsushi Isomura, **Takayuki ITO**, Toramatsu SHINTANI, and Tadachika Ozono, "Nurse Scheduling System based on Dynamic Weighted Maximal Constraint Satisfaction Problem - Solution Stability based on the Provisional Constraint -", Journal of Japanese Society for Artificial Intelligence (JSAI), Vol. 20, No. 1, pp.25-35, 2004. (IN JAPANESE).
21. **Takayuki Ito**, and Kazuhsa Oguri, "An Implementation of Position Information Inference Systems based on Probabilistic Reasoning", The Transactions of The Information Processing Society of Japan, Vol. 45, No.12, pp.2792-2804, 2004 (IN JAPANESE).
22. Manabu Matsuyama, Toramatsu Shintani, **Takayuki Ito**, Yusuke Hiraoka, and , Satoshi Watanabe, "A Keyword Extraction Method for Generating a User Profile in the Paper Collection and Sharing System, MiDoc", IEEJ Transaction on Electronics, Information and Systems, The Institute of Electrical Engineers of Japan, pp. 2489-2494, Vol. 124, No. 12, 2004 (IN JAPANESE).
23. Yoshinobu Bochi, Toramatsu Shintani, **Takayuki Ito**, and Tadachika Ozono, "Reward Sharing based on Past Events in Multiagent Reinforcement Learning Using an External Evaluator," Transactions of The Institute of Electronics, Information and Communication Engineers (IEICE), ol. J87-D1, No.12, pp.1119-1127, 2004.(IN JAPANESE)
24. Takayuki Ito, Makoto Yokoo, and Shigeo Matsubara, "A Combinatorial Auction among Experts and Amateurs - The Case of Single-Skilled Experts -", Transactions of The Institute of Electronics, Information and Communication Engineers (IEICE), Vol. J87-D-I, No.10, pp.920-930, 2004. (IN JAPANESE)



25. 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)
26. Hiromitsu HATTORI, **Takayuki ITO**, and Toramatsu SHINTANI: ``A Negotiation Method among Agents based on Exchanging Goods in P2P-based Distributed Electronic Marketplace E-GarageSale" Journal of Japanese Society for Artificial Intelligence (JSAI), Vol.18, No.2, pp.66-74, 2003. (IN JAPANESE)
27. **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) (Best Paper Award)
28. **Takayuki Ito**, Hiromitsu HATTORI, and Toramatsu SHINTANI: ``A Multiple Auction Support System *BiddingBot* based on a Cooperative Bidding Mechanism among Agents" Journal of Japanese Society for Artificial Intelligence (JSAI), pp.247-258, Vol 17, No. 3, 2002. (IN JAPANESE)
29. **Takayuki Ito** and Toramatsu SHINTANI: ``Implementation Technologies for Multiagent Systems and their Applications," Journal of Japanese Society for Artificial Intelligence (JSAI), Vol 16, No. 4, pp. 469 - 475, July 2001. (IN JAPANESE)
30. **Takayuki Ito** and Toramatsu SHINTANI: ``On a group choice design support system based on multiple negotiations among mobile-agents," The Transactions of The Information Processing Society of Japan (IPSJ), Vol. 39, No. 12, pp. 3165-3176, 1998. (IN JAPANESE)
31. **Takayuki Ito** and Toramatsu SHINTANI: ``Persuasion based on exchanging for cooperative scheduling," The Transactions of The Institute of Electronics, Information and Communication Engineers (IEICE) Vol. J81-D-I, No.9, pp. 1099-1106, 1998. (IN JAPANESE)
32. **Takayuki Ito** and Toramatsu SHINTANI: ``On a Persuasion Mechanism

Among Agents for Group Choice Design Support Systems," The Transactions of The Institute of Electronics, Information and Communication Engineers (IEICE), Vol. J80-D-II, No. 10, pp. 2780-2789, 1997. (IN JAPANESE)

### **Refereed International Conference Papers**

1. Rafik Hadfi, Takayuki Ito, Addressing Complexity in Multi-Issue Negotiation via Utility Hypergraphs, In the Proceedings of the 28th AAAI Conference on Artificial Intelligence (AAAI-14), 2014.(Poster; Accepted)
2. 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)
3. 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)
4. Raiye Hailu and Takayuki Ito, "Optimal Preference Clustering Technique For Scalable Multiagent Negotiation(short paper)" 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,Short-paper)
5. Takayuki Ito, Yuma Imi, Takanori Ito, and Eizo Hideshima, "COLLAGREE: A Faciliator-mediated Large-scale Consensus Support System", Collective Intelligence 2014, June 10-12, 2014. MIT Cambridge, USA. (poster)
6. Tomomichi Hayakawa, Yuma Imi, Takayuki Ito, "Towards a Sustainable Volunteered Community: An Analysis of the OpenStreetMap Community in Japan and Its Activity After the 2011 Tohoku Earthquake", PICMET2014 July 27 - 31, 2014 Kanazawa, Japan
7. Keita Mizuno, Ryo Kanamori, and Takayuki Ito, "Proposal of information provision to probe vehicles based on distribution of link travel time that

tends to have two peaks", Fourth International Workshop on Collaborative Agents -- REsearch and Development (CARE2013) ,“CARE for a Smarter Society”, held in conjunction with the 26th Australasian Joint Conference on Artificial Intelligence, and the 16th Conference on Principles and Practice of Multi-Agent Systems.

8. Shantanu Chakraborty, Takayuki Ito, "Incentive based Smart Pricing Scheme Using Scoring Rule", IEEE PES ISGT Europe 2013 (Full paper Accepted).
9. So Hashimoto, Ryo Kanamori and Takayuki Ito, "Auction-based Parking Reservation System with Electricity Trading"1st IEEE International Conference on Business Informatics(CBI), Vienna, Austria, July 15-18, 2013. (Full paper)
- 10.Satoshi Takahira, Ryo Kanamori and Takayuki Ito, "Experiment of Activity-Travel Survey System with Scheduling System"1st IEEE International Conference on Business Informatics(CBI), Vienna, Austria, July 15-18, 2013. (Short paper)
11. Takuya Yoshimura, Ryo Kanamori and Takayuki Ito, "Agent-based Home Power Management Model with Prediction of Photovoltaic Generation using Particle Filter", 5th International Conference on Advanced Power System Automation and Protection (APAP2013), Oct 28 - 31, Jeju, Korea, 2013.
- 12.Jun Takahashi, Ryo Kanamori and Takayuki Ito, "Evaluation of Route Assignment Method with Anticipatory Stigmergy under Distributed Processing Environment", International Workshop on Smart Simulation and Modelling for Complex Systems (SSMCS 2013), August 3-9, 2013(Accepted)
- 13.Shantanu Chakraborty, Takayuki Ito, "Hierarchical Scoring Rule Based Smart Dynamic Electricity Pricing Scheme", International Workshop on Smart Simulation and Modelling for Complex Systems (SSMCS 2013), August 3-9, 2013 (Accepted)
- 14.Rafik Hadfi, Takayuki Ito, "Uncertainty of Cognitive Processes with High-Information Load", The 9th International Conference on Cognitive Science (ICCS) 2013 (Accepted).
- 15.Rafik Hadfi, Takayuki Ito, "Cognition as a Game of Complexity",

International Conference on Cognitive Modeling (ICCM) 2013.  
(Poster;Accepted)

16. Ryo Kanamori, Takayuki Morikawa, Masaya Okumiya, Toshiyuki Yamamoto and Takayuki Ito, The Impact of Electric Vehicles on Travel Demand and Electricity demand in Nagoya, 13th International Conference on Computers in Urban Planning and Urban Management (CUPUM) 2013.7/2-5@Utrecht (Full paper Accepted)
17. Shantanu Chakraborty, Takayuki Ito, Ryo Kanamori and Tomonobu Senjyu, "Application of Incentive Based Scoring Rule Deciding Pricing for Smart Houses", 2013 IEEE PES General Meeting, Vancouver, BC, Canada, 21 - 25 July 2013.
18. Tomomichi Hayakawa, Yuma Imi and Takayuki Ito, "An Analysis on Community Activity based on Geo Information Data of OpenStreetMap in Japan", The Fifth International Workshop on Emergent Intelligence on Networked Agents (WEIN2013), May 6-7, 2013 (Accepted; Full paper).
19. Keiuske Hara, Takayuki Ito, "Effects of Dis GA based Mediation Protocol for Utilities that Change over Time", The Sixth International Workshop on Agent-based Complex Automated Negotiations (ACAN2013), May 6-7, 2013 (Accepted : Full paper).
20. Satoshi Takahira, Ryo Kanamori, Takayuki Ito, Prototype of Activity-Travel Survey System with Automatic Function of Route Search, The First International Workshop on The 1st International Workshop on Multiagent-based Societal Systems (MASS2013) May 6-7, 2013 (Accepted : Full paper).
21. Takanobu Otsuka, Tatsunosuke Tsuboi, Takayuki Ito, "A Bayesian Network based Method for Reducing Noise-data for Anomaly Detection in Flexible Wireless Sensor Networks" The First International Workshop on The 1st International Workshop on Multiagent-based Societal Systems (MASS2013) May 6-7, 2013 (Accepted : Full paper).
22. Shantanu Chakraborty, Takayuki Ito and Ryo Kanamori, "Intelligent Resource Scheduling in Green Smart Grid Considering Uncertainties" The First International Workshop on The 1st International Workshop on Multiagent-based Societal Systems (MASS2013) May 6-7, 2013 (Accepted :

Full paper).

23. Keisuke Hara, Mikoto Okumura and Takayuki Ito, A Mediator-based Agent Negotiation Protocol for Utilities that Change with Time, In the Proceedings of the 26th International Conference on Industrial, Engineering & Other Applications of Applied Intelligent Systems (IEA/AIE2013), Amsterdam, Jun 17-21, 2013. (full paper)
24. Takanobu Otsuka, Tatsunosuke Tsuboi and Takayuki Ito, Prototyping and evaluation of a wireless sensor network that aims easy installation, In the Proceedings of the 26th International Conference on Industrial, Engineering & Other Applications of Applied Intelligent Systems (IEA/AIE2013), Amsterdam, Jun 17-21, 2013. (short paper)
25. Chika Nishikawa, Akihiko Nagai, Takayuki Ito and Satomi Maruyama, An Implementation of a Menu-List Recommendation System Providing Feedback from User, In the Proceedings of the 26th International Conference on Industrial, Engineering & Other Applications of Applied Intelligent Systems (IEA/AIE2013), Amsterdam, Jun 17-21, 2013. (short paper)
26. Takanobu Otsuka, Tatsunosuke Tsuboi, Takayuki Ito, "Prototyping and evaluating a wireless sensor network for easy installation," Computer and Information Science (ICIS), 2013 IEEE/ACIS 12th International Conference on , vol., no., pp.129,134, 16-20 June 2013 doi: 10.1109/ICIS,2013.
27. Takayuki Ito, Shantanu Chakraborty, Ryo Kanamori, and Tadanobu Otsuka, "Innovating Multiagent Algorithms for Smart City: An Overview", International Workshop on Knowledge and Service Technology for Life, Environment, and Sustainability, (KASTLES 2012), December 17, 2012.
28. Ryo Kanamori, Jun Takahashi, and Takayuki Ito, Evaluation of Anticipatory Stigmergy Strategies for Traffic Management, IEEE Vehicular Networking Conference 2012, Seoul, South Korea, November 14-16, 2012.
29. So Hashimoto, Ryo Kanamori, Takayuki Ito, and Shantanu Chakraborty, "Evaluation of Parking Reservation System with Auction Including Electricity Trading", International Workshop on 3rd International Workshop on Green Computing and Sustainable Society (GCSS'12), Macau,

China, Dec 4 - 7, 2012.

30. Jun Takahashi, Ryo Kanamori, and Takayuki Ito, "A Preliminary Study on Anticipatory Stigmergy for Traffic Management", International Workshop on 3rd International Workshop on Green Computing and Sustainable Society (GCSS'12), Macau, China, Dec 4 - 7, 2012.
31. Naoki Fukuta and Takayuki Ito, "A Preliminary Experimental Analysis on Combinatorial Auction-based Electric Power Allocation for Manufacturing Industries" International Workshop on 3rd International Workshop on Green Computing and Sustainable Society (GCSS'12), Macau, China, Dec 4 - 7, 2012.
32. Shantanu Chakraborty, Takayuki Ito, Tomonobu Senjyu and Ahmed Yousuf Saber, Optimal Economic Operation of Smart Grid by Fuzzy Advanced Quantum Evolutionary Method, In the Proceedings of the 2012 3rd IEEE PES Innovative Smart Grid Technologies Europe (ISGT Europe), Berlin, Germany, Oct. 14-17, 2012.
33. Raiye Alemayehu and Takayuki Ito, Constraint definition rule to achieve high rate of success in negotiations, In the Proceedings of the 1st International Conference on Agreement Technologies (AT2012), Dubrovnik, Croatia, Oct 15-16, 2012 (to appear).
34. Akihiko Nagai and Takayuki Ito, The Significance of Serendipity in New Market Creation, In the Proceedings of The IEEE International Conference on Industrial Engineering and Engineering Management (IEEM2012), Dec 10-13, 2012, Hong Kong Convention and Exhibition Centre, Hong Kong, 2012 (to appear).
35. Yuma Imi, Tomomichi Hayakawa and Takayuki Ito, Analyzing the Effect of OpenStreetMap during Crises: The Great East Japan Earthquake, The 1st International Workshop on Smart Enterprise and Mobile Platforms, The 14th IEEE International Conference on Commerce and Enterprise Computing (CEC), pp 126-130, Hangzhou, China, September 9-11, 2012.
36. Tomomichi Hayakawa, Yuma Imi and Takayuki Ito, Analysis of Quality of Data in OpenStreetMap, The 1st International Workshop on Smart Enterprise and Mobile Platforms, The 14th IEEE International Conference on Commerce and Enterprise Computing (CEC), pp 131-134, Hangzhou,

China, September 9-11, 2012.

37. Akihiko Nagai and Takayuki Ito, Proposal of Business process Visualization Tool, The 1st International Workshop on Smart Enterprise and Mobile Platforms, The 14th IEEE International Conference on Commerce and Enterprise Computing (CEC), pp 135-139, Hangzhou, China, September 9-11, 2012.
38. Shun Okuhara, Takanobu Otsuka, Takuya Yoshimura, Raiye Hail and Takayuki Ito, Teaching Method based on Learning Networks, The 1st International Workshop on Smart Enterprise and Mobile Platforms, The 14th IEEE International Conference on Commerce and Enterprise Computing (CEC), pp 140-143, Hangzhou, China, September 9-11, 2012.
39. Takayuki Ito, Jun Takahashi, Ryo Kanamori, Iván Marsa Maestre and Enrique De La Hoz, "Effect of Anticipatory Stigmergy on Decentralized Traffic Congestion Control", The 15th International Conference on Principles and Practice of Multi-Agent Systems (PRIMA-2012), 2012 (to appear).
40. Shantanu Chakraborty, Takayuki Ito and Tomonobu Senjyu, Economical Operation of Thermal Generating units Integrated with Smart Houses, In the Proceedings of the 12th Pacific Rim International Conference on Artificial Intelligence (PRICAI 2012), 2012.
41. Takayuki Ito, Ryo Kanamori, Jun Takahashi, Iván Marsa Maestre and Enrique De La Hoz, The Comparison of Stigmergy Strategies for Decentralized Traffic Congestion Control: Preliminary Results, In the Proceedings of the 12th Pacific Rim International Conference on Artificial Intelligence (PRICAI 2012), 2012.
42. Tsuguya Ueta, Jun Takahashi, Akihiko Nagai and Takayuki Ito, Implementation of automatic nutrient calculation system for cooking recipes based on text analysis, In the Proceedings of the 12th Pacific Rim International Conference on Artificial Intelligence (PRICAI 2012), 2012 (short paper).
43. Rafik Hadfi and Takayuki Ito, Application of the Maximum Entropy Principle to Preferences Merging: Case of Utility Functions with Infinite Outcomes, The Fifth International Workshop on Agent-Based Complex

- Automated Negotiations (ACAN2012), Valencia, Spain, June 4-5, 2012.
44. Raiye Alemayehu and Takayuki Ito, Reducing The complexity of negotiations over interdependent issues, The Fifth International Workshop on Agent-Based Complex Automated Negotiations (ACAN2012), Valencia, Spain, June 4-5, 2012.
  45. Takanobu Otsuka and Takayuki Ito, Distance and Reputation: Evaluating user reputations from Real Distance in Social Network, The Fifth International Workshop on Agent-Based Complex Automated Negotiations (ACAN2012), Valencia, Spain, June 4-5, 2012.
  46. Ryo Kanamori, Nobuyasu Mizutani and Takayuki Ito, Agent-based Home Power Management Model considering the Instability of Renewable Energy, The Fifth International Workshop on Agent-Based Complex Automated Negotiations (ACAN2012), Valencia, Spain, June 4-5, 2012.
  47. Takanobu Otsuka, Takayuki Ito, and Yuichi Kubota "An Implementation of A Precision Fastener Management System for Aircraft Manufacturing", 2012 IEEE International Conference on Management of Information and Technology, Snur Bali, Indonesia, 11-13 June 2012.
  48. Akihiko Nagai, Hiroki Nakagawa, and Takayuki Ito, "Re-examination of Market Strategies of Fabless Semiconductor Companies in Japan", 2012 IEEE International Conference on Management of Information and Technology, Snur Bali, Indonesia, 11-13 June 2012.
  49. Nobuyasu Mizutani, Ryo Kanamori, Takayuki Ito, "Agent-based Electrical Power Management Model in Consideration of Weather Change",
  50. In the Proceedings of IEEE Green Technologies Conference, Tulsa, Oklahoma, 2012.
  51. Takuya Yoshimura, Yutaro Fujii and Takayuki Ito, "Grouping Co-occurrence Filtering Based on Bayesian Filtering", In the Proceedings of The 25th International Conference on Industrial, Engineering & Other Applications of Applied Intelligent Systems (IEA/AIE2012), Dalian, China, 2012.
  52. Hiroki Nakagawa, Akihiko Nagai and Takayuki Ito, "A Framework for Collaborative Business Development based on Middle Agent Model", In the Proceedings of The 25th International Conference on Industrial, Engineering & Other Applications of Applied Intelligent Systems



- (IEA/AIE2012), Dalian, China, 2012.
53. Nagai,A. Nakagawa,H and Takayuki Ito.” Market Strategies of fables Semiconductor Companies in Japan,” Portland International Center for Management of Engineering and Technology(PICMET2012), July 2012.
  54. Nakagaw,H. Nagai,A and Ito,T.” Effectiveness of Middle Mediator Model,” Portland International Center for Management of Engineering and Technology(PICMET2012), July 2012.
  - 55.Rafik Hedfi and Takayuki Ito, "Symptotic Maximum Entropy principle for Utility Elicitation under High Uncertainty and Partial Information", The 25th International FLAIRS Conference (FLAIRS-25), May 23-25, 2012.
  56. Tsuguya Ueta, Masashi Iwakami and Takayuki Ito, "Implementation of a Goal-Oriented Recipe Recommendation System Providing Nutrition Information” , The 2011 Conference on Technologies and Applications of Artificial Intelligence (TAAI 2011), 2011.
  - 57.Hiroki Nakagawa, Akihiko Nagai, and Takayuki Ito, ” A Proposal of Middle-Agent Based Framework for Innovating A Business Model” , 1st ACIS International Symposium on Software and Network Engineering (SSNE2011), Seoul, Korea, December, 2011
  58. Tsuguya Ueta , Masashi Iwakami and Takayuki Ito, "A Recipe Recommendation System based on Automatic Nutrition Information Extraction", The 2011 International Conference on Knowledge Science, Engineering and Management (KSEM2011), 2011.
  59. Kanamori, R., Mizutani, N andTakayuki Ito: Agent-based electrical power management model for houses equipped with storage battery and photovoltaic units, International Workshop on Knowledge and Service Technology for Life, Environment, and Sustainability (KASTLES2011), December, 2011.
  60. Takanobu Otsuka, Ryo Suzuki, Shogo Kawaguchi, and Takayuki Ito,"An Implementation of A Geolocation Information-sharing System", International Workshop on Knowledge and Service Technology for Life, Environment, and Sustainability, (KASTLES 2011), December 12-14, 2011.
  - 61.Ryo Kanamori, Nobuyasu Mizutani and Takayuki Ito, "Agent-based electrical power management model for the house equipped with a storage battery

- and a photovoltaic unit", International Workshop on Knowledge and Service Technology for Life, Environment, and Sustainability (KASTLES 2011), December 12-14, 2011.
62. Akihiko Nagai, Takayuki Ito, "Approach to Storage Sharing Cluster that Optimizes Power Consumption in Subregion", 1st International Symposium on Green Computing and Sustainable Society (GCSS2011), December 9-10, 2011.
  63. Raiye Hailu and Takayuki Ito, "Challenges in Automating Collaborative Negotiations", Third IEEE International Conference on Intelligent Networking and Collaborative Systems (INCoS-2011), November 30 - December 2, 2011.
  64. Satoashi TAKAHASHI, Tokuro MATSUO, Roger LEE, Takayuki Ito, "A Co-dependent Value-based Mechanism for the Internet Advertisement Auction", International Workshop on Multi-agent Smart Computing (MASmart2011), 14 - 15 November 2011.
  65. Ryo Kanamori, Takayuki Morikawa and Takayuki Ito, "Evaluation of special lanes as incentive policies for promoting electric vehicles", International Workshop on Multi-agent Smart Computing (MASmart2011), 14 - 15 November, 2011.
  66. Naoki Fukuta and Takayuki Ito, "An Approach to Sustainable Electric Power Allocation Using a Multi-Round Multi-Unit Combinatorial Auction", International Workshop on Multi-agent Smart Computing (MASmart2011), 14 - 15 November, 2011.
  67. Nobuyasu Mizutani, Katsuhide Fujita, Takayuki Ito, "Effective Distributed Genetic Algorithms for Optimizing Social Utility", The First International Workshop on Sustainable Enterprise Software (SES2011), IEEE-CEC2011 Workshp, Luxemborg, 2011.9.
  68. Katsuhide Fujita, Mark Klein and Takayuki Ito, "Issue-Grouping Approach for Multiple Interdependent issues Negotiation with Exaggerator Agents", The First International Workshop on Sustainable Enterprise Software (SES2011), IEEE-CEC2011 Workshp, Luxemborg, 2011.9.
  69. Naoki Fukuta and Takayuki Ito, "Toward Combinatorial Auction-based Better Electric Power Allocation on Sustainable Electric Power Systems",

- The First International Workshop on Sustainable Enterprise Software (SES2011), IEEE-CEC2011 Workshp, Luxemborg, 2011.9.
70. Takayuki Ito, Yuya Takahashi, Eizo Hideshima and Takanori Ito, "An Implementation of Web-based Consenting Support System for the Campus Greening Project: Preliminary Results", The First International Workshop on Sustainable Enterprise Software (SES2011), IEEE-CEC2011 Workshp, Luxemborg, 2011.9.
  71. Tokuro Matsuo, Yuji Hashiura and Takayuki Ito, "A Qualitative Decision Support System for Sustainable City Planning", The First International Workshop on Sustainable Enterprise Software (SES2011), IEEE-CEC2011 Workshp, Luxemborg, 2011.9.
  72. Yutaro Fujii, Takuya Yoshimura, Takayuki Ito, Satoshi Ando, Filtering Harmful Sentences based on Three Words Co-occurrence, In the Proceedings of The 8th Annual Collaboration, Electronic messaging, Anti-Abuse and Spam Conference (CEAS 2011).
  73. Katsuhide Fujita, Takayuki Ito, and Mark Klein, "Scalable and Efficient Negotiation Protocol: Decomposing the Contract Space based on Idea of Issue-Grouping", In the Proceedings of the 2ND INTERNATIONAL WORKSHOP ON MULTI-AGENT SYSTEMS AND COLLABORATIVE TECHNOLOGIES (I-MASC 2011), 2011.
  74. Takayuki Ito, Naoki Fukuta, and Mark Klein "An Approach to Sharing Business Process Models in Agile-style Global Software Engineering", In the Proceedings of the First International Conference on Computer, Networks, Systems and Industrial Engineering (CNSI2011), 2011.
  75. Katsuhide Fujita, Mark Klein, Takayuki Ito, "Efficient Issue-Grouping Approach for Multi-Issues Negotiation between Exaggerator Agents", In the Proceedings of the National Conference on Artificial Intelligence (AAAI-2011), 2011 (poster abstract).
  76. Shogo Kawaguchi, Katsuhide Fujita, Takayuki Ito, "Compromising Strategy based on Estimated Maximum Utility for Automated Negotiation Agents Competition (ANAC-10)", In the Proceeding of the 24th International Conference on Industrial, Engineering & Other Applications of Applied Intellitent Systems (IEA/AIE2011), 2011.

77. Katsuhide Fujita, Takayuki Ito and Mark Klein The Effect of Grouping Issues in Multiple Interdependent Issues Negotiation between Exaggerator Agents, In the Proceedings of the 4th International Workshop on Agent-based Complex Automated Negotiations (ACAN2011), 2011.
78. Raiye Hailu and Takayuki Ito Efficient Deal Identification For the Constraints Based Utility Space Model, In the Proceedings of the 4th International Workshop on Agent-based Complex Automated Negotiations (ACAN2011), 2011.
79. Rafik Hedfi and Takayuki Ito Agreement among Agents based on Decisional Structures and its Application to Group Formation, In the Proceedings of the 4th International Workshop on Agent-based Complex Automated Negotiations (ACAN2011), 2011.
80. Mikoto Okumura, Katsuhide Fujita and Takayuki Ito Implementation of Collective Collaboration Support System based on Automated Multi-Agent Negotiation, In the Proceedings of the 4th International Workshop on Agent-based Complex Automated Negotiations (ACAN2011), 2011.
81. Katsuhide Fujita, Takayuki Ito, Mark Klein, "Scalable Negotiation Protocol based on Issue-Grouping for Highly Nonlinear Situation", The 2010 Decision Making with Multiple Imperfect Decision Makers (NIPS 2010 Workshop), Canada, Dec., 2010.
82. Satoshi Ando, Yutaro Fujii, Takayuki Ito, "Filtering Harmful Sentences based on Multiple Word Co-occurrence", 9th IEEE/ACIS International Conference on Computer and Information Science , 2010.8.19.
83. Yuya Takahashi, Takayuki Ito, "An Efficient Real-Time Search Algorithm with Forecasting in Uncertain Problem Spaces", 9th IEEE/ACIS International Conference on Computer and Information Science , 2010.8.19.
84. Nobuyasu Mizutani, Katsuhide Fujita, Takayuki Ito, "Issue Clustering and Distributed Genetic Algorithms for Multi-issue Negotiations", 9th IEEE/ACIS International Conference on Computer and Information Science , 2010.8.19.
85. Dayong Ye, Minjie Zhang, Quan Bai and Takayuki Ito, "Self-organisation in

- an Agent Network via Multiagent Q-Learning", The 11th International Workshop on Knowledge Management and Acquisition for Smart Systems and Services (PKAW 2010), Daegu, Korea, Sep. 2010.
86. Katsuhide Fujita, Takayuki Ito, Mark Klein, "An Approach to Scalable Multi-issue Negotiation: Decomposing the Contract Space based on Issue Interdependencies", The 2010 IEEE/WIC/ACM International Joint Conference on Intelligent Agent Technology (IAT2010), Tronto, Canada, Sep. 2010. Acceptance rate : 18.8%.
  87. Takayuki Ito, Rafik Hedfi, and Katsuhide Fujita, "Towards Collective Collaborative Design : An Implementation of Agent-mediated Collaborative 3D Products Design System", International Workshop on Multi-Agent Systems and Collaborative Technologies (I-MASC2010), 2010 (to appear).
  88. Katsuhide Fujita, Takayuki Ito and Mark Klein "The Effect of Grouping Issues in Multiple Interdependent Issues Negotiation based on Cone-Constrain" The 3rd International Workshop on Agent-based Complex Automated Negotiations (ACAN2010), Tronto, Canada, 2010年5月
  89. Hideyuki Sugiura, Bipin Khanal, Takayuki Ito, Masashi Iwasaki, Katsuhide Fujita, and Masao Kobayashi, SmartContractor: A Distributed Task Assignment System based on the Simple Contract Net Protocol, Proceedings of The 12th International Conference on Principles of Practice in Multi-Agent Systems (PRIMA2009), pp.403-416, 2009.
  90. Takuya Yamamoto and Takayuki Ito, Verification of the effect of introducing an agent in a prediction market, International Workshop on Agent-based Collaboration, Coordination, and Decision Support (ACCDS 2009), Nagoya, Dec 13, 2009.
  91. Katsuhide Fujita, Takayuki Ito, Mark Klein, "A Secure and Fair Negotiation Protocol in Highly Complex UtilitySpace based on Cone-Constraints", The 2009 IEEE/WIC/ACM International Joint Conference on Intelligent Agent Technology (IAT2009), Milan, Italy, Sep 2009.
  92. Masashi Iwakami and Takayuki Ito. Analyzing Network Structure of Borrowers and Lenders in Social Lending, NETSCIO9, International Workshop and Conference on Complex Networks and their Applications, 2009.

93. Ivan Marsa-Maestre, **Takayuki Ito**, Katsuhide Fujita, Miguel A. Lopez-Carmona, Juan R. Velasco, Mark Klein, "Balancing Utility and Deal Probability for Negotiations in Highly Nonlinear Utility Spaces", In the Proceedings of the Twenty-First International Joint Conference on Artificial Intelligence (**IJCAI-09**) , July 11 - 17 in Pasadena, California, pp.214-219, 2009.
94. Masashi Iwakami, **Takayuki Ito**, and Joaquin Delgado, "An Incentive Mechanism for Increasing Repayment Rate for Online Social Lending", In the Proceeding of the 22nd International Conference on Industrial, Engineering & Other Applications of Applied Intellitent Systems (IEA/AIE2009), 2009 (to appear).
95. Katsuhide Fujita, **Takayuki Ito**, Mark Klein, "Approximately Fair and Secure Protocols for Multiple Interdependent Issues Negotiation", The Eighth International Joint Conference on Autonomous Agents and Multi-Agent Sys- tems (**AAMAS2009**), pp.1287–1287, Budapest, Hungary, 2009. (Poster)
96. Masashi Iwakami, **Takayuki Ito**, Joaquin Delgado, "A Dynamic Interest Rate Adjusting Mechanism for Online Social Lending", In the Proceedings of the Eighth International Joint Conference on Autonomous Agents and Multi-Agent Systems (**AAMAS2009**), 2009 (Poster).
97. Katsuhide Fujita, **Takayuki Ito**, and Mark Klein, "Finding Nash Bargaining Solutions for Multi-issue Negotiations : A Preliminary Result", Proceedings of the Working Conference on Human Factors and Computational Models for Negotiation (HuCom 2008), Delft, Netherland, 2008.
98. Naoki Fukuta, and **Takayuki Ito**, ``Approximated Winner Determination for a Series of Combinatorial Auctions", Proc. of the 1st International Conference on Agents and Artificial Intelligence (ICAART2009), pp400 – 407, 2009.
99. Naoki Fukuta, and **Takayuki Ito**, ``Winner Price Monotonocity for Approximated Combinatorial Auctions", Proc. of IEEE/WIC/ACM IAT International Workshop on Electronic Commerce, Business, and Services (ECBS2008), 2008.

100. Masao Kobayashi, and **Takayuki Ito**, "An Approach to Ranking Participants based on Relationship Network in E-Commerce", Proc. of IEEE/WIC/ACM IAT International Workshop on Electronic Commerce, Business, and Services (ECBS2008), 2008.
101. Naoki Fukuta and **Takayuki Ito**, Performance Analysis about Parallel Greedy Approximation on Combinatorial Auctions, Proceedings of the 1st Pacific Rim International Conference on Multi-Agents (PRIMA 2008), (full paper), Hanoi, Vietnam, 2008.
102. Katsuhide Fujita, **Takayuki Ito**, and Mark Klein, Preliminary Result on Secure Protocols for Multiple Issue Negotiation Problems, Proceedings of the 1st Pacific Rim International Conference on Multi-Agents (PRIMA 2008), (full paper), Hanoi, Vietnam, 2008.
103. Masashi Iwakami and **Takayuki Ito**, An Interest Rate Adjusting Method with Bayesian Estimation in Social Lending, Proceedings of the 1st Pacific Rim International Conference on Multi-Agents (PRIMA 2008), (short paper), Hanoi, Vietnam, 2008.
104. Katsuhide Fujita, **Takayuki Ito**, and Mark Klein "Effects of Revealed Area based Selection Method for Representative-based Protocol", In the Proceedings of the 1st International Workshop on Agent-based Complex Automated Negotiations (ACAN 2008), 2008.
105. Mikito Kobayashi, Fumiaki Minami, **Takayuki Ito**, and Satoshi Tojo, "An Implementation of Goal-Oriented Fashion Recommendation System", In the Proceeding of the 21st International Conference on Industrial, Engineering & Other Applications of Applied Intelligent Systems (IEA/AIE2008), 2008 (poster presentation).
106. Fumiaki Minami, Mikito Kobayashi and **Takayuki Ito**, "A Proposal on Recommender System based on Observing Web-Chatting", In the Proceeding of the 21st International Conference on Industrial, Engineering & Other Applications of Applied Intelligent Systems (IEA/AIE2008), 2008 (poster presentation).
107. Katsuhide Fujita, **Takayuki Ito**, Mark Klein, " A Preliminary result on a representative-based multi-round protocol for multi-issue negotiations ", In the Proceedings of the Seventh International Joint Conference on

- Autonomous Agents and Multi-Agent Systems ([AAMAS2008](#)), pp.1573-1576, 2008 (Short Paper).
108. Naoki Fukuta and **Takayuki Ito**, "Fast Partial Reallocation in Combinatorial Auctions for Iterative Resource Allocation", In The Proceedings of The 10th Pacific Rim International Workshop on Multi-Agents (PRIMA 2007), Bangkok, Thailand, Nov. 21-23, 2007.
  109. Katsuhide Fujita and **Takayuki Ito**, "A Preliminary Analysis of Computational Complexity of the Threshold Adjusting Mechanism in Multi-Issue Negotiations", In The Proceeding of The 3rd International Workshop on Rational, Robust, and Secure Negotiations in Multi-Agent Systems (RRS2007), 2007.
  110. 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 ([Best Student Paper Award](#)).
  111. Masao Kobayashi and **Takayuki Ito**, "An Approach to Implement A Trading Network Visualizing System for Internet Auctions", In The Proceedings of The 2nd International Conference on Knowledge, Information and Creativity Support Systems (KICSS277), 2007 .
  112. Naoki Fukuta, and **Takayuki Ito**, "Periodical Resource Allocation Using Approximated Combinatorial Auctions", The Proceedings of the 2007 IEEE/WIC/ACM International Conference on Intelligent Agent Technology (IAT/WI 2007), 2007(Full paper). Acceptance rate: 20%
  113. Hiromitsu Hattori, Mark Klein, and **Takayuki Ito**, "A Multi-Phase Protocol for Negotiation with Interdependent Issues", The Proceedings of the 2007 IEEE/WIC/ACM International Conference on Intelligent Agent Technology (IAT/WI 2007), 2007(Full paper). Acceptance rate: 20%
  114. Masao Kobayashi and **Takayuki Ito**, "A Transactional Relationship Visualization System In Internet Auctions", The Proceedings of the 2007 IEEE/WIC/ACM International Conference on Intelligent Agent Technology (IAT/WI 2007), 2007(Short paper). Acceptance rate: 28%
  115. Naoki Fukuta and **Takayuki Ito**, "Short-Time Approximation on



- Combinatorial Auctions -- A Comparison on Approximated Winner Determination Algorithms", In the Proceeding of the 3rd International Workshop on Data Engineering Issues in E-Commerce and Services (DEECS2007), June 12, San Diego, USA, 2007 (full paper).
116. Naoki Fukuta and **Takayuki Ito**, "Toward A Large Scale E-Market : A Greedy and Local Search based Winner Determination", In the Proceeding of the 20th International Conference on Industrial, Engineering & Other Applications of Applied Intellitent Systems (IEA/AIE2007), 2007.
  117. David Sarne, Sarit Kraus, **Takayuki Ito**, "Scaling-Up Shopbots - a Dynamic Allocation-Based Approach", In the Proceedings of the Sixth International Joint Conference on Autonomous Agents and Multi-Agent Systems (AAMAS2007), 2007.(Full) Acceptance rate : 22%.
  118. Hiromitsu Hattori, **Takayuki Ito**, Mark Klein "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).
  119. Florin Constantin, David Parkes, **Takayuki Ito**, " Online auctions for bidders with interdependent values", In the Proceedings of the Sixth International Joint Conference on Autonomous Agents and Multi-Agent Systems (AAMAS2007), 2007 (Poster).
  120. **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, pp. 1347- 1352, 2007.
  121. Naoki Fukuta and **Takayuki Ito**, "Towards Better Approximation of Winner Determination for Combinatorial Auctions with Large Number of Bids", In the Proceeding of 2006 IEEE/WIC/ACM International Joing Conference on Web Intelligence and Intelligent Agent Technology (IAT2006), 2006 (short paper).
  122. **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).

123. Tokuro Matsuo, **Takayuki Ito**, Robert Day, Toramatsu Shintani, "An Approach to Detecting Shill-Biddable Allocations in Combinatorial Auctions", In the Proceedings of the 2nd International Workshop on Data Engineering Issues in E-Commerce and Services (DEECS2006), 2006.
124. Tokuro Matsuo, **Takayuki Ito**, Robert Day, Toramatsu Shintani, "A Two-Stage Robust Combinatorial Auction Mechanism against False-name Bids", In the Proceedings of the First IEEE Pacific Rim International Workshop on Electronic Commerce (IEEE-PRIWEC2006), 2006.
125. **Takayuki Ito**, Mark Klein, Hiromitsu Hattori, "A Multi-Issue Negotiation Protocol among Nonlinear Utility Agents : A Preliminary Report", In the Proceedings of the 2nd International Workshop on Rational, Robust, and Secure Negotiations in Multi-Agent Systems (RRS2006), 2006 (to appear).
126. **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.
127. Tokuro Matsuo, **Takayuki Ito**, Robert Day, Toramatsu Shintani "A Robust Combinatorial Auction Mechanism against Shill Bidders", In the Proceedings of the Fifth International Joint Conference on Autonomous Agents and Multi-Agent Systems ([AAMAS2006](#)), 2006.
128. **Takayuki Ito**, Mark Klein, "A Multi-Issue Negotiation Protocol among Competitive Agents based on Auctions", In the Proceedings of the Fifth International Joint Conference on Autonomous Agents and Multi-Agent Systems ([AAMAS2006](#)), 2006.
129. Takeshi Konagaya, Tadachika Ozono, **Takayuki Ito**, and Toramatsu Shintani, "Big Blackboard : On a Large Web Page by using a Fast Page Loading Method " In the Proceedings of The 2005 IEEE/WIC/ACM International Joint Conference on Web Intelligence (WI2005), 2005 (Short Paper).
130. Tokuro Matsuo, **Takayuki Ito** and Toramatsu Shintani, "An Approach to Avoiding Shill Bids based on Combinatorial Auction in Volume Discount," Proc. of the AAMAS2005 Workshop on Rational, Robust, and Secure Negotiations in Multi-Agent Systems (RRS2005), July. 2005

131. **Takayuki Ito**, Makoto Yokoo, Shigeo Matsubara, and Atsushi Iwasaki "A New Strategyproof Greedy-Allocation Combinatorial Auction Protocol and its Extension to Open Ascending Auction Protocol" In the Proceedings of the Twentieth National Conference on Artificial Intelligence (**AAAI2005**), 2005. **Acceptance rate : 18% (148/803)**.
132. Tokuro Matsuo, **Takayuki Ito**, and Toramatsu Shintani, "A Learning Support Method in Qualitative Simulation-based Economic Education", In the Proceedings of the 20th National Conference on Artificial Intelligence (**AAAI-2005**), 2005 (student poster)(to appear).
133. Takahiro Koga, Noriharu Tashiro, Tadachika Ozono, **Takayuki Ito**, Toramatsu Shintani, "Web Page Marker: a Web Browsing Support System based on Marking and Anchoring", In the 14th World Wide Web Conference(**WWW2005**), 2005 (poster abstract) (to appear).
134. Yujiro Fukagaya, Tadachika Ozono, **Takayuki Ito**, Toramatsu Shintani, "MiSpider: A Continuous Agent on Web pages", In the 14th World Wide Web Conference(**WWW2005**), 2005 (poster abstract) (to appear).
135. Hiromitsu Hattori, **Takayuki Ito**, Tadachika Ozono, Toramatsu Shintani, "A Nurse Scheduling System based on the Dynamic Constraint Satisfaction Problem", In the Proceedings of the 17th International Conference on Industrial and Engineering Applications of Artificial Intelligence and Expert Systems (**IEA/AIE-2005**), 2005 (to appear).
136. Tokuro Matsuo, **Takayuki Ito**, and Toramatsu Shintani, "A Support Method for Qualitative Simulation Based Learning System" In the Proceedings of the 17th International Conference on Industrial and Engineering Applications of Artificial Intelligence and Expert Systems (**IEA/AIE-2005**), 2005 (to appear).
137. **Takayuki Ito**, Tokuro Matsuo, Tadachika Ozono, and Toramatsu Shintani, "A Strategy-proof Mechanism based on Multiple Auction Support Agents" In the Proceedings of the 17th International Conference on Industrial and Engineering Applications of Artificial Intelligence and Expert Systems (**IEA/AIE-2005**), 2005 (to appear).
138. Satoshi Watanabe, **Takayuki Ito**, Tadachika Ozono and Toramatsu Shintani, ``A Paper Recommendation Mechanism for the Research

- Support System Papits", International Workshop on Data Engineering in Electronic Commerce (DEEC2005), 2005 (to appear).
139. Tokuro Matsuo, **Takayuki Ito**, Toramatsu Shintani: A Volume Discount-Based Allocation Mechanism in Group Buying, International Workshop on Data Engineering in Electronic Commerce (DEEC2005), 2005 (to appear).
  140. Takafumi Yamaya, Yusuke Hiraoka, Hiromitsu Hattori, **Takayuki Ito**, Naoki Fukuta, Tadachika Ozono, and Toramatsu Shintani, "MiNet: Building Ad-hoc Peer-to-Peer Networks for information Sharing based on Mobile Agents", In the Proceedings of the 5th International Conference on Practical Aspects of Knowledge Management (PAKM2004), 2004 .
  141. **Takayuki Ito**, Makoto Yokoo, and Shigeo Matsubara: " Designing Auction Protocols under Asymmetric Information on Nature's Selection, " In the Proceedings of DIMACS Workshop on Computational Issues in Auction Design, Rutgers University, NJ, on October 7 and 8, 2004. .
  142. Tokuro Matsuo, **Takayuki Ito**, and Toramatsu Shintani:A Tele-Learning Support System for Consumers Education, Proc. of the International Conference on Computers in Education, Melbourne, Australia, November 2004.
  143. Tokuro Matsuo, **Takayuki Ito**, and Toramatsu Shintani:An economic education support system based on qualitative/quantitative simulations, Proc. of the International Workshop on Qualitative Reasoning(QR04), Illinois, U.S.A, August 2004. .
  144. Tomoharu Hasegawa, Toramatsu Shintani, Takayuki Ito, and Tadachika Ozono, "A Feature Selection for Text Categorization on Research Support System Papits", In the Proceedings of the 8th Pacific Rim International Conference on Artificial Intelligence (PRICAI 2004). .
  145. Hiromitsu Hattori, Toramatsu Shintani, Atsushi Isomura, Takayuki Ito, and Tadachika Ozono, "Stable Solutions dealing with Dynamics in Scheduling based on Dynamic Constraint Satisfaction Problems", In the Proceedings of the 8th Pacific Rim International Conference on Artificial Intelligence (PRICAI 2004) (poster abstract). .
  146. Masaaki Tanaka, Tokuro Matsuo, Noriharu Tashiro, Kentaro Nishi,

- Takayuki Ito**, and Toramatsu Shintani, "An Implementation of Web-Based Interactive Integrative Learning Supporting System", The 2004 International Conference on Artificial Intelligence (IC-AI2004), Las Vegas, June 2004 .
147. Tokuro Matsuo, **Takayuki Ito**, and Toramatsu Shintani, "A Buyers Integration Support System in Group Buying", In the Proceedings of the IEEE Conference on E-commerce Technology(IEEE CEC 2004), July 2004 .
148. **Takayuki Ito**, Makoto Yokoo, and Shigeo Matsubara, "A Combinatorial Auction among Versatile Experts and Amateurs" In the Proceedings of the Third International Joint Conference on Autonomous Agents and Multi-Agent Systems (**AAMAS2004**), 2004. **Acceptance rate : 24%**.
149. Noriharu Tashiro, Hiromitsu Hattori, **Takayuki Ito**, and Toramatsu Shintani:"Implementing a Proxy Agent based Writable Web for a Dynamic Information Sharing System, " In the 13th World Wide Web Conference(WWW2004), 2004 (poster abstract) .
150. Toshihiro Yamaguchi, **Takayuki Ito**, and Toramatsu Shintani: "On a Web Browsing Support System with 3D Visualization," In the 13th World Wide Web Conference(WWW2004), 2004 (poster abstract) .
151. Tokuro Matsuo, **Takayuki Ito**, and Toramatsu Shintani, "A Qualitative-Quantitative Methods-Based e-Learning Support System in Economic Education", In the Proceedings of the 19th National Conference on Artificial Intelligence (**AAAI-2004**), 2004 . **Acceptance rate : 26%**.
152. Tokuro Matsuo, **Takayuki Ito**, and Toramatsu Shintani, "An e-Learning Support System Based on Qualitative Simulations for Assisting Consumers' Decision Making", In the Proceedings of the 16th International Conference on Industrial and Engineering Applications of Artificial Intelligence and Expert Systems (IEA/AIE-2004), 2004 .
153. **Takayuki Ito**, Kazuhisa Oguri, and Tokuro Matsuo, "A Location Information System based on Real-time Probabilistic Position Inference" In the Proceedings of the 16th International Conference on Industrial and Engineering Applications of Artificial Intelligence and Expert Systems (IEA/AIE-2004), 2004 .

154. 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), 2004 . (Nominated for the best paper!)
155. Hiromitsu Hattori, Tadachika Ozono, **Takayuki Ito**, and Toramatsu Shintani, "Coalition Formation among Agents in Complex Problems based on a Combinatorial Auction Perspective," In the Proceedings of the 16th International Conference on Industrial and Engineering Applications of Artificial Intelligence and Expert Systems (IEA/AIE-2004), 2004 .
156. Ahlem Ben Hassine, **Takayuki Ito**, and Ho Tu Bao, "A New Distributed Approach to Solve Meeting Scheduling Problems," In Proceedings of the 2003 IEEE/WIC International Conference on Intelligent Agent Technology (IAT 2003), 2003 .
157. Tokuro MATSUO, **Takayuki ITO**, "A Buyers Integration Support System based on Users' Multi Attribute Utilities for Internet Group Buying", In the 12th World Wide Web International Conference (WWW-2003), Budapest, Hungary, 2003 (poster abstract).
158. Masaki Hyoudo, Tokuro Matsuo, and **Takayuki Ito**, "An Optimal Coalition Formation Among Buyer Agents Based on a Genetic Algorithm", In the Proceedings of the 16th International Conference on Industrial and Engineering Applications of Artificial Intelligence and Expert Systems (IEA/AIE-2003), Loughborough, United Kingdom, June 23-26, 2003 (to appear; will be published as Lecture Notes in Artificial Intelligence (LNAI), Springer).
159. Tokuro Matsuo, and **Takayuki Ito**, "A Bidders Cooperation Support System for Agent-based Electronic Commerce", In the Proceedings of the 16th International Conference on Industrial and Engineering Applications of Artificial Intelligence and Expert Systems (IEA/AIE-2003), Loughborough, United Kingdom, June 23-26, 2003 (to appear: will be published as Lecture Notes in Artificial Intelligence (LNAI), Springer).
160. **Takayuki Ito**, Makoto Yokoo, and Shigeo Matsubara, "Towards a Combinatorial Auction Protocol among Experts and Amateurs: The Case of

Single-Skilled Experts," In the Proceedings of the Second International Joint Conference on Autonomous Agents and Multi-Agent Systems (AAMAS2003), 2003 .

161. Tokuro MATSUO, **Takayuki ITO**, " A Bidder Group Support System to Participate in Multiple Auctions", In the Proceedings of 1st International Forum on Information and Computer Technology (IFICT 2003), pp.62-67, Hamamatsu, Japan, Jan. 9-10, 2003.
162. Hiromitsu HATTORI, Tadachika OZONO, **Takayuki ITO**, and Toramatsu SHINTANI: "An Automated Budget Allocation Mechanism for Simultaneous Multiple Bidding", Students Poster Paper in Eighteenth National Conference on Artificial Intelligence (AAAI-02), Edmonton, Canada, July 28-August 1 , 2002 .
163. **Takayuki Ito**, Hiromitsu Hattori, and Toramatsu Shintani, " Incentive Compatibility on Multiple Internet Auctions based on Bidding Support Agents ", In the Proceedings of 11th International World Wide Web Conference (WWW 2002), Honolulu, Hawaii, USA, May 7-11, 2002 (poster abstract).
164. Tokuro MATSUO, **Takayuki Ito**, " A Decision Support System for Group Buying based on Buyers' Preferences in Electronic Commerce ", In the Proceedings of 11th International World Wide Web Conference (WWW 2002), Honolulu, Hawaii, USA, May 7-11, 2002 (poster abstract).
165. Tokuro MATSUO, **Takayuki Ito**, "Effects of Nomination in a Multiagent Reverse Auction", In the Proceedings of 6th World Multiconference on Systemics, Cybernetics and Informatics (SCI 2002), Vol. XVII, pp.299-204, 2002.
166. Tokuro Matsuo, **Takayuki Ito**, "A Designated Bid Reverse Auction for Agent-based Electronic Commerce", In the Proceedings of International Conference on Industrial and Engineering Applications of Artificial Intelligence and Expert Systems (IEA/AIE-2002), (Lecture Notes in Artificial Intelligence (LNAI 2358), Springer), pp. 460-469, Cairns, Australia, June 2002.
167. **Takayuki Ito**, Makoto Yokoo, and Shigeo Matsubara, "Designing an Auction Protocol under Asymmetric Information on Nature's Selection," In

- the Proceedings of the International Joint Conference on Autonomous Agents and Multi-Agent Systems (AAMAS2002), Bologna, Italy, July 15-19, pp.61-68, 2002.
168. Ranjit Nair, **Takayuki Ito**, Milind Tambe and Stacy Marsella, "Task Allocation in the Rescue Simulation Domain: A Short Note", RoboCup-2001: Robot Soccer World Cup V, A. Birk and S. Coradeschi (Eds.), Lecture Notes in Artificial Intelligence (LNAI 2377), Springer Verlag, pp.751-754, 2002.
  169. Naoki Fukuta, **Takayuki ITO**, Tadachika Ozono, and Toramatsu Shintani, "A Framework for Cooperative Mobile Agents and Its Case-Study on BiddingBot", In A. Namatame, T. Terano, and K. Kurumatani (Eds.) Frontiers in Artificial Intelligence and Applications, Vol.72, IOS Press, pp.235-242, Feb. 2002.
  170. Naoki Fukuta, **Takayuki ITO**, and Toramatsu Shintani, "An Approach to Building Mobile Intelligent Agents Based on Anytime Migration", n R. Kowalczyk, S.W. Loke, N.E. Reed, and G. Williams (Eds.) Lecture Notes in Artificial Intelligence, Vol.2112, Springer-Verlag, pp.219-228, Oct. 2001.
  171. Ryota Yamada, **Takayuki Ito**, Hiromitsu Hattori, Tadachika Ozono, and Toramatsu Shintani, "MultiHammer: A Virtual Auction System for a Testbed of Agent-Mediated Electronic Commerce," In the Proceedings of the Pacific Asian Conference on Intelligent Systems (PAIS-2001), pp.73-77, 2001.
  172. **Takayuki Ito**, Hiromitsu Hattori, and Toramatsu Shintani, "A Cooperation Mechanism among Seller Agents based on Exchanging Goods in Agent-mediated Electronic Commerce," In the Proceedings of the Pacific Asian Conference on Intelligent Systems (PAIS-2001), pp.89-96, 2001.
  173. Toramatsu Shintani and **Takayuki Ito**, "Cooperative Meeting Scheduling among Agents based on Multiple Negotiations," In the Proceedings of Sixth International Conference on Cooperative Information Systems(CoopIS 2001), pp.95-107, 2001.
  174. Naoki Fukuta, **Takayuki Ito**, and Toramatsu Shintani, "On Implementing Cooperative E-commerce Support Agents Using Mobile Intelligent Agent Framework MiLog," In the Proceedings of 2nd International Conference on



- Software Engineering, Artificial Intelligence, Networking & Parallel/Distributed Computing(SNPD-01), pp.928-935, 2001.
175. Hiromitsu HATTORI, **Takayuki Ito**, Tadachika OZONO and Toramatsu SHINTANI, "A Hierarchical Coalition Formation Mechanism using Argumentation-based Negotiation for Group Decision Making", In the Proceedings of 2nd International Conference on Software Engineering, Artificial Intelligence, Networking & Parallel/Distributed Computing(SNPD-01), pp.326-331, 2001.
  176. **Takayuki Ito**, Hiroyuki OCHI, and Toramatsu SHINTANI, "A Group Buy Protocol based on Coalition Formation for Agent-mediated E-Commerce", In the Proceedings of the 2nd International Conference on Software Engineering, Artificial Intelligence, Networking & Parallel/Distributed Computing (SNPD 01), pp.921-927, 2001.
  177. Naoki FUKUTA , **Takayuki Ito**, Tadachika OZONO, and Toramatsu SHINTANI, "A Framework for Cooperative Mobile Agents and Its Case-Study on BiddingBot," In the Proceedings of the JSAI 2001 International Workshop on Agent-based Approaches in Economic and Social Complex Systems (AESCS 2001), pp.91-98, 2001.
  178. Naoki Fukuta, **Takayuki Ito**, and Toramatsu Shintani, "A Logic-based Framework for Mobile Intelligent Information Agents," In the Proceedings of the 10th International World Wid Web Conference (WWW10), pp. 58-59, 2001.
  179. Hiromitsu Hattori, **Takayuki Ito**, Tadachika Ozono, and Toramatsu Shintani, "An Approach to Coalition Formation Using Argumentation-Based Negotiation in Multi-agent Systems," In the Proceedings of the 14th International Conference on Industrial and Engineering Applications of Artificial Intelligence and Expert Systems (IEA/AIE-2001)(Lecture Notes in Artificial Intelligence 2070, (Laszlo Monostori, Jozsef Vancza, and Moonis Ali (Eds.)), pp. 687--696, Budapest, Hungary, June 4--7 2001.
  180. Naoki FUKUTA, **Takayuki Ito**, and Toramatsu SHINTANI: "MiLog: A Mobile Agent Framework for Implementing Intelligent Information Agents with Logic Programming," In the Proceedings of the First Pacific Rim

- International Workshop on Intelligent Information Agents(PRIIA'2000), pp.113-123, 2000.
181. Ranjit Nair, **Takayuki Ito**, Milind Tambe, and Stacy Marsella, ``Robocup Rescue: A Proposal and Preliminary Experiences," Workshop on Robocup Rescue at International Conference on Multiagent Systems (ICMAS2000), pp.69-75, 2000.
  182. **Takayuki Ito**, Naoki FUKUTA, Ryota YAMADA, Toramatsu SHINTANI, and Katia SYCARA,: "Cooperative Bidding Mechanisms among Agents in Multiple Online Auctions," In the Proceedings of the Sixth Pacific Rim International Conference on Artificial Intelligence (PRICAI'2000), p.810, 2000 (poster abstract).
  183. Toramatsu SHINTANI, **Takayuki Ito**, and Katia SYCARA,: "Multiple Negotiations among Agents for a Distributed Meeting Scheduler," In the Proceedings of the Fourth International Conference on Multi Agent Systems (ICMAS'2000),pp.435-436, 2000 (poster abstract).
  184. **Takayuki Ito**, Naoki FUKUTA, Toramatsu SHINTANI, and Katia SYCARA,: "-BiddingBot-: A Multiagent Support System for Cooperative Bidding in Multiple Auctions," In the Proceedings of the Fourth International Conference on Multi Agent Systems (ICMAS'2000), pp.399-400, 2000. (poster abstract)
  185. Hiromitsu HATTORI, **Takayuki Ito** and Toramatsu SHINTANI,: "An Approach to Improving Quality and Facilitating Consensus in Negotiation Among Agents",In the Proceedings of IASTED International Conference, Intelligent Systems and Control(ISC), pp.252-257, 1999.
  186. **Takayuki Ito** and Toramatsu SHINTANI,: "A Utility Revision Mechanism Among Agents Based on User's Uncertain Judgements", In the Proceedings of IASTED International Conference, Intelligent Systems and Control(ISC), pp.258-263, 1999.
  187. **Takayuki Ito** and Toramatsu SHINTANI,: "Utility Revision in A Java-based Group Decision Support System", In the Proceedings of the 5th Pacific Rim International Conferences on Artificial Intelligence (PRICAI'98) Workshop on Java-based Intelligent Systems, pp.61-72, 1998.OHP Slides

188. Toramatsu SHINTANI and **Takayuki Ito**,: ``An Architecture for Multi-Agent Negotiation Using Private Preferences in a Meeting Scheduler", In the Proceedings of the 5th Pacific Rim International Conferences on Artificial Intelligence (PRICAI'98) , pp.47-58, 1998.
189. **Takayuki Ito** and Toramatsu SHINTANI.: ``An Agenda-scheduling System Based on Persuasion Among Agents", In the Proceedings of the IPSJ International Symposium on Information Systems and Technologies for Network Society , pp.287-294, World Scientific, Fukuoka, Japan, September 1997. Gzipped-ps:272k.
190. **Takayuki Ito** and Toramatsu SHINTANI.: ``Persuasion among Agents : An Approach to Implementing a Group Decision Support System Based on Multi-Agent Negotiation", In the Proceedings of the 15th International Joint Conference on Artificial Intelligence (IJCAI-97), pp.592-597, Morgan Kaufmann Publishers, Inc., 1997. OHP Slides
191. **Takayuki Ito** and Toramatsu SHINTANI.: ``Implementing an agent negotiation protocol based on persuasion.", In the Proceedings of the Second International Conference on Multiagent Systems(ICMAS-96), p.443, AAAI Press, 1996. (Poster abstract)
192. **Takayuki Ito** and Toramatsu SHINTANI.: ``An Approach to a Multi-agent Based Scheduling System Using a Coalition Formation", In the Proceedings of the Ninth International Conference on Industrial & Engineering Applications of Artificial Intelligence and Expert Systems (IEA/AIE-96), p.780. Gordon and Breach Science Publishers, 1996. (Poster abstract)

### **Other publications (first author and in Japanese )**

#### **2006- more**

1. **Takayuki Ito** and David C. Parkes, "Designing An Interdependent Value Auction based on Contingent Bids," In the Proc. of the 68th Annual Conference of IPSJ, Mar. 2006.
2. **Takayuki ITO**, Makoto YOKOO, Katsutoshi HIRAYAMA, and Hiroshi YAMAKI, "Multiagent theories for safe ubiquitous environments", Joint Agent Workshop & Symposiumn (JAWS2004), 2004.

3. **Takayuki ITO**, Makoto YOKOO, and Shigeo MATSUBARA: "Designing a Combinatorial Auction Protocol among Versatile Experts and Amateurs", Proceedings of the 18th Annual Conference of Japanese Society for Artificial Intelligence (JSAI), Japanese Society for Artificial Intelligence (JSAI), 2004 .
4. **Takayuki Ito**, and Toramatsu Shintani: "A Frame Representation Description Method for Knowledge Representation Markup Language KRML and its application", In the Proceedings of the Sixty sixth Annual Conference of Information Processing Society of Japan (IPSJ) , Information Processing Society of Japan (IPSJ), Mar. 2004..
5. **Takayuki ITO** and Toramatsu Shintani "A Cooperation Mechanism among Agents and Humans based on Adjustable Autonomy and its Application", Joint Agent Work Shop (JAWS2003), pp.222- 228, 2003.
6. **Takayuki Ito**, Makoto YOKOO, and Shigeo MATSUBARA: "A Multi-Unit Auction among Experts and Amateurs – In Case of Single-Skilled Experts - ", SIG-ICS & IEICE-AI, Vol. 102, No. 614, pp.11-16, 2003.
7. **Takayuki Ito**, Makoto YOKOO, and Shigeo MATSUBARA: "Designing an Multi-Unit Auction Protocol with Asymmetric Information on Nature's Selection", The First Japan Agent Work Shop (JAWS2002), pp.267-271, 2002.
8. **Takayuki Ito**, Makoto YOKOO, and Shigeo MATSUBARA: "Designing an Auction Protocol with Asymmetric Information on Nature's Selection", Proceedings of the SIG-KBSE(IEICE), and the 55th SIG-KBS(JSAI), Technical report of IEICE, KBSE 2001-57, Vol. 101, No. 602, pp.15-22, 2002.
9. **Takayuki Ito**, Ranjit Nair, Milind Tambe, and Stacy Marsella, "On a task allocation mechanism among agents based on an auction mechanism in the Robocup Rescue simulation," Proceedings of the 2nd SICE System Integration Division Conference (SI2001), pp.341-342, 2001.
10. **Takayuki Ito** and Toramatsu SHINTANI: `` On a Multiagent Cooperative Bidding Strategy for Multiple Online Auctions ," Proceedings of the 60th Annual Conference of Information Processing Society of Japan (IPSJ), pp.19-20, 2000.

11. **Takayuki Ito** and Toramatsu SHINTANI: ``Experimental Evaluation of GCDSS: a Group Decision Support System based on Negotiation among Agents,"Proceedings of the 13th Annual Conference of Japanese Society for Artificial Intelligence (JSAI), Japanese Society for Artificial Intelligence (JSAI),pp.417-420, 1999.
12. **Takayuki Ito**, Naoki Fukuta, and Toramatsu SHINTANI: ``On a Multi-Agent Cooperative Bidding Mechanism for Multi-Agent Online Auction Bidding Support Systems,"Proceedings of the 8th Workshop on Multi-Agents and Cooperative Computation (MACC99), 1999.
13. **Takayuki Ito** and Toramatsu SHINTANI: ``On a Group Decision Support System based on Multiple Negotiations among Agents," Proceedings of the 58th Annual Conference of Information Processing Society of Japan (IPSJ), pp.392-393, 1999.
14. **Takayuki Ito** and Toramatsu SHINTANI: ``On a group schedule management system using a preference-based distributed ATMS," Proceedings of the 34th SIG-FAI, Japanese Society for Artificial Intelligence (JSAI), pp.75-80, 1998.
15. **Takayuki Ito** and Toramatsu SHINTANI: ``On a preference-based distributed ATMS in multi-agent scheduling system," Proceedings of the 57th Annual Conference of Information Processing Society of Japan (IPSJ) , pp.392-393, 1998.
16. **Takayuki Ito** and Toramatsu SHINTANI: ``On a preference-based ATMS in multiagent environment and its application,"Proceedings of the 12th Annual Conference of Japanese Society for Artificial Intelligence (JSAI), Japanese Society for Artificial Intelligence (JSAI),pp.542-543, 1998.
17. **Takayuki Ito** and Toramatsu SHINTANI: ``On a negotiation method among mobile agents based on intelligent movements", Proceedings of the 56th Annual Conference of Information Processing Society of Japan (IPSJ) (2), pp.412-413, 1998.
18. **Takayuki Ito** and Toramatsu SHINTANI: ``On Agenda-Scheduling based on Persuasion among Agents," Proceedings of 1997 IEICE Information and System Society Special Symposium "Software Agents and its Applications," The Institute of Electronics, Information and Communication Engineers

- (IEICE), pp.120-125, 1997.
19. **Takayuki Ito** and Toramatsu SHINTANI: ``An implementation of group decision support system based on negotiation among mobile agents," Record of 1997 Tokai-Section Joint Conference of The Seven Institutes of Electrical and Related Engineers, p.308, 1997.
  20. **Takayuki Ito** and Toramatsu SHINTANI: ``On a Persuasion Mechanism Based on Suspended Proposals for Consensus Among Agents," Proceedings of the 11th Annual Conference of Japanese Society for Artificial Intelligence (JSAI), Japanese Society for Artificial Intelligence (JSAI), pp.217-218, 1997.
  21. **Takayuki Ito** and Toramatsu SHINTANI: ``On Meeting Scheduling Based on Multi-agent Persuasion", Proceedings of the 28th SIG-FAI, Japanese Society for Artificial Intelligence (JSAI), pp. 80-85, 1997.
  22. **Takayuki Ito** and Toramatsu SHINTANI: ``On negotiation based on persuasion among agents by using AHP," Proceedings of the 54th Annual Conference of Information Processing Society of Japan (IPSJ) (2), pp.111-112, 1997.
  23. **Takayuki Ito** and Toramatsu SHINTANI: ``An implementation of a group decision support system based on persuasion among agents," Record of 1996 Tokai-Section Joint Conference of The Seven Institutes of Electrical and Related Engineers, p.305, 1996.
  24. **Takayuki Ito** and Toramatsu SHINTANI: ``On Agent Negotiation Based on Persuasion and Nemawashi and its Application", Proceedings of the 10th Annual Conference of Japanese Society for Artificial Intelligence (JSAI), Japanese Society for Artificial Intelligence (JSAI), pp.151-154, 1996.
  25. **Takayuki Ito** and Toramatsu SHINTANI: ``Implementing a scheduling system based on coalition formation among agents," Proceedings of the 52th Annual Conference of Information Processing Society of Japan (IPSJ) (2), pp.3-4, 1996.
  26. **Takayuki Ito** and Toramatsu SHINTANI: ``An implementation of a computer-purchasing support system based on case-based reasoning," Proceedings of the 50th Annual Conference of Information Processing Society of Japan (IPSJ) (2), pp.137-138, 1995.
  27. **Takayuki Ito** and Toramatsu SHINTANI: "Implementing a scheduling

system using Multi TMS", Proceedings of the 8th Annual Conference of Japanese Society for Artificial Intelligence (JSAI), Japanese Society for Artificial Intelligence (JSAI), pp.273-276, 1994.

### **Refferred Demonstrations**

1. Ranjit Nair, **Takayuki Ito**, Milind Tambe, and Stacy Marsella, ``Robocup Rescue Agents: Facing the Challenges of Rapidly Chaniging Environments," Demonstration, International Conference on Autonomous Agents (Agents'2001), 2001.

### **Book reviews and Conference reports (in Japanese)**

1. **Takayuki Ito** and Masayuki Ohta, "AAMAS2002 Conference Report," Computer Software (The Journal of JSSST), Japan Society for Software Science and Technology (JSSST), Vol. 20, No.1, pp.98-102, 2002.
2. **Takayuki Ito** ``Introduction of Research Laboratories: University of Southern California - Information Sciences Institute (USC/ISI), Milind Tambe's Group", Journal of Japan Society for Artificial Intelligence, Vol.16, No.1, pp.176-177, 2000.
3. **Takayuki Ito** ``Doctor Thesis Collection: Study of Multiagent Cooperation Mechanisms for Decision Support and their Applications", Journal of Japan Society for Artificial Intelligence, Vol.15, No.6, 2000.
4. **Takayuki Ito** ``Multiagent Systems", Information Processing, Information Processing Society of Japan, Vol.40, No.10, p.1046, 1999.
5. **Takayuki Ito** ``AAAI'99", Information Processing, Information Processing Society of Japan, Vol.40, No.9, p.950, 1999.

### **Other Publications (in Japanese)**

2007- more

1. Yuta Mito, and **Takayuki Ito**, "A Proposal on the method for selecting a prioritized target in real time multi moving target search," In the Proc. of the 70th Annual Conference of IPSJ, Mar. 2007.
2. Masao Kobayashi, and **Takayuki Ito**, "Evaluation and Implementation of a judgment model for fraud users in e-commerce network," In the Proc. of the

- 70th Annual Conference of IPSJ, Mar. 2007.
3. Katsuhide Fujita, and **Takayuki Ito**, "An Analysis on the representative selection method for persuasive negotiation mechanism in multi-issue negotiations" In the Proc. of the 70th Annual Conference of IPSJ, Mar. 2007.
  4. Takyuya Yamamoto, and **Takayuki Ito**, "An Analysis on Stability of keyword auction based on locally envy free equilibrium," In the Proc. of the 70th Annual Conference of IPSJ, Mar. 2007.
  5. Fumiaki MINAMI, Mikito KOBAYASHI, and **Takayuki Ito**, "A Proposal on Cloth Recommendation System based on conversation between users and sellers on web chatting," In the Proc. of the 70th Annual Conference of IPSJ, Mar. 2007.
  6. Mikito KOBAYASHI, Fumiaki MINAMI, **Takayuki Ito**, Satoshi TOJO, "An Implementation of Goal-Oriented Fashion Recommendation System with Concept Dictionary," In the Proc. of the 70th Annual Conference of IPSJ, Mar. 2007. (**Student Encourage Award**)
  7. Mikito KOBAYASHI, Fumiaki MINAMI, **Takayuki Ito**, Satoshi TOJO, "An Implementation of Cloth Recommendation System Based on User's Situation", IEICE SIG-WI2, 10th Web Intelligence and Interaction , 2007 (IN JAPANESE).
  8. Fumiaki MINAMI, Mikito KOBAYASHI, **Takayuki Ito**, "The Item Recommender System based on Real-Time Change of User Profile with Web-Chat Interface", Japan Society for Artificial Intelligence, 67th SIG-FPAI, Nov 3 - 4, 2007 (IN JAPANESE).
  9. Mikito KOBAYASHI, Fumiaki MINAMI, **Takayuki Ito**, Satoshi TOJO, "An Implementation of Gift Recommendation System Based on User's Infomation", Joint Agent Workshop and Symposium (JAWS2007), 2007 (IN JAPANESE).
  10. Yuta MITO, **Takayuki Ito**, "Real-Time Search Method for Multi Moving-Targets", Joint Agent Workshop and Symposium (JAWS2007), 2007 (IN JAPANESE).
  11. Katsuhide FUJITA, **Takayuki Ito**, Hiromitsu HATTORI, "Using Autonomous Threshold Adjustment to Enable Multi- Party Negotiations



- with Multiple Interdependent Issues", Joint Agent Workshop and Symposium (JAWS2007), 2007 (IN JAPANESE).
12. Fumiaki MINAMI , Mikito KOBAYASHI , **Takayuki Ito** , "An Implementation of Goal-Oriented Book Recommendation System with Concept Dictionary", Japan Society for Software Science and Technology(JSSST2007), 2007 (IN JAPANESE).
  13. Takuya YAMAMOTO,**Takayuki Ito** , "A Transactional Relationship Visualization System in the Internet Auctions", Forum on Information Technology(FIT2007) 2007 (IN JAPANESE).
  14. Masao KOBAYASHI, **Takayuki Ito** , "A Transactional Relationship Visualization System in the Internet Auctions", Forum on Information Technology(FIT2007) 2007 (IN JAPANESE).
  15. Katsuhide FUJITA, **Takayuki Ito** , "Using Autonomous Threshold Adjustment to Enable Multi-Party Negotiations with Multiple Interdependent Issues", Forum on Information Technology(FIT2007), 2007 (IN JAPANESE).
  16. Naoki Fukuta and **Takayuki Ito**,"An Evaluation of Short-time Approximation Algorithm on Combinatorial Auctions," 6th Forum on Information Technology (FIT 2007), Information Processing Society of Japan(IPSJ), Sept. 2007. [in Japanese] (peer reviewed)
  17. Osamu Kawamura, Tadachika Ozono, **Takayuki Ito** and Toramatsu Shintani, "Algorithmic Composition System based on Sequential Rhythm-Interval Generation Model," IPSJ SIG Technical Report, Information Processing Society of Japan(IPSJ), Dec. 2005. (To Appear)[in Japanese]
  18. Yasuto Mukai, Tadachika Ozono, **Takayuki Ito** and Toramatsu Shintani, "The Analysis of Users Behavior for optimization of transmission of information on web," In the Proc. of the 68th Annual Conference of IPSJ, Mar. 2006. (To Appear)
  19. Yusuke Hiraoka, Tadachika Ozono, **Takayuki Ito** and Toramatsu Shintani, "A Smart Mailbox Generation Method based on Self-Organizing based on Form of an E-mail," In the Proc. of the 68th Annual Conference of IPSJ, Mar. 2006.

20. Manabu Matsuyama, Tadachika Ozono, **Takayuki Ito** and Toramatsu Shintani, "information recommendation technique in case both a user model and a context change dynamically," In the Proc. of the 68th Annual Conference of IPSJ, Mar. 2006. (To Appear)
21. Masaki Tanabe, Tadachika Ozono, **Takayuki Ito** and Toramatsu Shintani, "web servise addition system by bookmarklet for user browsing domain ," In the Proc. of the 68th Annual Conference of IPSJ, Mar. 2006. (To Appear)
22. Jin QingXi, Tokuro Matsuo, Masaki Komatsu, Tadachika Ozono, **Takayuki Ito** and Toramatsu Shintani, "A Learning Support System based on Qualitative Environment Analysis," In the Proc. of the 68th Annual Conference of IPSJ, Mar. 2006. (To Appear)
23. Masaki Komatsu, Tadachika Ozono, **Takayuki Ito** and Toramatsu Shintani, "JavaScript development environment to enable code concealment by hiding decryption situation," In the Proc. of the 68th Annual Conference of IPSJ, Mar. 2006.
24. Osamu Kawamura, Tadachika Ozono, **Takayuki Ito** and Toramatsu Shintani, "Automatic Classification of Standerd MIDI Files based on Rhythm," In the Proc. of the 68th Annual Conference of IPSJ, Mar. 2006. (To Appear)
25. Tokuro Matsuo, **Takayuki Ito** and Toramatsu Shintani, "Evaluations of Social Surplus and Theoretical Characterizations in a Robust Two-Stage Auction Mechanism against Shill bidders," In the Proc. of the 68th Annual Conference of IPSJ, Mar. 2006. (To Appear)
26. Tokuro Matsuo, Masaki Komatsu, Tadachika Ozono, **Takayuki Ito** and Toramatsu Shintani, "Evaluations of an Education Support System based on Qualitative Modeling in Economic Dynamics," In the Proc. of the 68th Annual Conference of IPSJ, Mar. 2006.
27. Yujiro Fukagaya, Tadachika Ozono, **Takayuki Ito** and Toramatsu Shintani, "Implementing a Web Browsing Support Agent Based on MiSpider," In the Proc. of the 22th Annual Conference of Japan Society for Software Science and Technology, Sept. 2005.
28. Yasuto Mukai, Tadachika Ozono, **Takayuki Ito** and Toramatsu Shintani, "Dynamic page construction system based on push type

- transmission of information ," 4th Forum on Information Technology, Information Processing Society of Japan(IPSJ), Sept. 2005.
29. Manabu Matsuyama, Tadachika Ozono, **Takayuki Ito** and Toramatsu Shintani, "Extracting Keywords for Personalization using Deviation of Interest and Ill-chosen Documents," 4th Forum on Information Technology, Information Processing Society of Japan(IPSJ), Sept. 2005.
  30. Yusuke Hiraoka, Tadachika Ozono, **Takayuki Ito** and Toramatsu Shintani, "Implementing of an E-Mail Consult System based on E-Mail Mapping," 4th Forum on Information Technology, Information Processing Society of Japan(IPSJ), Sept. 2005.
  31. Osamu Kawamura, Tadachika Ozono, **Takayuki Ito** and Toramatsu Shintani, "A Method of Characterful-Phrase Extraction Based on Adaptation," 4th Forum on Information Technology, Information Processing Society of Japan(IPSJ), Sept. 2005.
  32. Tokuro MATSUO, **Takayuki Ito**, and Toramatsu SHINTANI, "Detecting skill bidder-groups and item allocations in Multi-unit auctions", Joint Agent Workshop 2005(JAWS 2005), 2005.
  33. Yusuke Hiraoka, Yujiro Fukagaya, Tadachika Ozono, **Takayuki Ito**, and Toramatsu Shintani, "A Webmail System Considering User's Situation Based on Web Agent MiSpider," Joint Agent Workshop 2005 (JAWS 2005), 2005.
  34. Tokuro Matsuo, **Takayuki Ito** and Toramatsu Shintani, "A Discovering Method of False-name Bidders in Combinatorial Auctions," MYCOM2005, Japan Society of Artificial Intelligence, May. 2005. [in Japanese]
  35. Tokuro Matsuo, **Takayuki Ito** and Toramatsu Shintani, "A Method of Discovering Skill Bidders based on a Comparison of Bidders' Utilities in Combinatorial Auctions," 4th Forum on Information Technology (FIT 2005), Information Processing Society of Japan(IPSJ), Sept. 2005. [in Japanese] (peer reviewed)
  36. Takafumi Yamaya, Tadachika Ozono, **Takayuki Ito** and Toramatsu Shintani, "An implementation of network system for Information sharing based on the agents," 19th JSAI Annual Conference 2005, The Japanese Society for AI(JSAI), Jun. 2005. [in Japanese]

37. Kentaro Nishi, Tadachika Ozono, Takayuki Ito and Toramatsu Shintani, "Implementation of Advertising Control System Based on Web Agent - MiSpider -," 19th JSAI Annual Conference 2005, The Japanese Society for AI(JSAI), Jun. 2005.
38. Yusuke Hiraoka, Tadachika Ozono, **Takayuki Ito** and Toramatsu Shintani, "An Method and Experimentation of Rule induction for E-Mail Classification based on a Self Organizing Map ," 19th JSAI Annual Conference 2005, The Japanese Society for AI(JSAI), Jun. 2005. [in Japanese]
39. Takeshi Konagaya, Tadachika Ozono, **Takayuki Ito** and Toramatsu Shintani, "Big Black Board : A Web Information Sharing System Based on Transmitting and Exchanging Information," 19th JSAI Annual Conference 2005, The Japanese Society for AI(JSAI), Jun. 2005. [in Japanese]
40. Masaki Komatsu, Tokuro Matsuo, Tadachika Ozono, **Takayuki Ito** and Toramatsu Shintani, "A Causal Model Building Support System by Causal Model Reuse in Qualitative Simulator," 19th JSAI Annual Conference 2005, The Japanese Society for AI(JSAI), Jun. 2005. [in Japanese]
41. Tokuro Matsuo, **Takayuki Ito** and Toramatsu Shintani, "A Discovering Method of Skill Bidders in Combinatorial Auctions," 19th JSAI Annual Conference 2005, The Japanese Society for AI(JSAI), Jun. 2005. [in Japanese]
42. Toshihiro Yamaguchi, Tadachika Ozono, **Takayuki Ito** and Toramatsu Shintani, "An Implementation of a Nurse Scheduling System with a Team Structure Using CSP," 19th JSAI Annual Conference 2005, The Japanese Society for AI(JSAI), Jun. 2005. [in Japanese]
43. Takahiro Koga, Noriharu Tashiro, Tadachika Ozono, **Takayuki Ito**, and Toramatsu Shintani: "Web Page Marker: An Implementaion of a Browsing Support System, " In the Proceedings of the Sixty seventh Annual Conference of Information Processing Society of Japan (IPSJ),6R-4, Information Processing Society of Japan (IPSJ), Mar. 2005.
44. 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.
45. Junichi Hayakawa, Yusuke Hiraoka, Tadachika Ozono, **Takayuki Ito**, and Toramatsu Shintani:"On a Color Coordination System for Web Page Design", Proc. of the 67th Annual Conference of Information Processing Society of Japan (IPSJ) , Tokyo, Japan, March 2005.
  46. Tokuro Matsuo, **Takayuki Ito**, and Toramatsu Shintani:"An Efficient Allocation Mechanism based on Volume Discount", Proc. of the 67th Annual Conference of Information Processing Society of Japan (IPSJ) , Tokyo, Japan, March 2005.
  47. 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.
  48. 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.
  49. Yujiro Fukagaya, Tadachika Ozono, **Takayuki Ito**, and Toramatsu Shintani:"An Agent System on Web pages, " In the Proceedings of the Sixty seventh Annual Conference of Information Processing Society of Japan (IPSJ) , 1R-5, Information Processing Society of Japan (IPSJ), Mar. 2005.
  50. Yusuke Hiraoka, Tadachika Ozono, **Takayuki Ito**, and Toramatsu Shintani:"The Proposal the automatic mailbox creating system by using unsupervised mail clustering" In the Proceedings of the Sixty seventh Annual Conference of Information Processing Society of Japan (IPSJ),5R-6, Information Processing Society of Japan (IPSJ), Mar.2005.
  51. Masaki Komatsu, Tokuro Matsuo, Tadachika Ozono, **Takayuki Ito**, and Toramatsu Shintani:" An support system for building causal model based on tree structure for qualitative reasoning, " In the Proceedings of the Sixty seventh Annual Conference of Information Processing Society of Japan

- (IPSJ), 3M-2, Information Processing Society of Japan (IPSJ), March, 2005.
52. 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.
  53. Manabu Matsuyama, Tadachika Ozono, **Takayuki Ito**, and Toramatsu Shintani: "Technique for estimated distribution about user's interest in Weblog ", In the Proceedings of the Sixty seventh Annual Conference of Information Processing Society of Japan (IPSJ) ,Information Processing Society of Japan (IPSJ), Mar. 2005.
  54. Kazuhiro Hori, Tadachika Ozono, **Takayuki Ito**, and Toramatsu Shintani: "About explanation of book recommendation in book information management system MiBook", The 67th national convention of Information Processing Society of Japan , March, 2005.
  55. Takeshi konagaya, Tadachika Ozono, **Takayuki Ito**, and Toramatsu Shintani: "Transmission Reduction by Partial Display of Web Page", In the Proceedings of the Sixty seventh Annual Conference of Information Processing Society of Japan (IPSJ) ,Information Processing Society of Japan (IPSJ), Mar. 2005.
  56. Takahiro Koga, Noriharu Tashiro, Tadachika Ozono, **Takayuki Ito**, and Toramatsu Shintani: "An Implementation of a Web Page Marking System ", In the Proc of 2004 Tokai-Section Joint Conference of The Institutes of Electrical and Related Engineers, 2004 Tokai-Section Joint Conference of The Institutes of Electrical and Related Engineers, Sep. 2004.
  57. Toshihiro Yamaguchi, Hiromitsu Hattori, Tadachika Ozono, **Takayuki Ito**, and Toramatsu Shintani: "Implementing a Nurse Scheduling System for Stable Scheduling," In the Proc of Tokai-Section Joint Conference of The Institutes of Electrical and Related, Sep, 2004.
  58. Yuta Nagata, Tadachika Ozono, **Takayuki Ito**, and Toramatsu Shintani: "Implementing a Hazardous Web Pages Filtering System by Using a Query Expansion based on Web Mining", In the Proc of Tokai-Section Joint Conference of The Institutes of Electrical and Related, Sep, 2004.

59. Yuya Okawara, Satoshi Watanabe, Tadachika Ozono, **Takayuki Ito**, and Toramatsu Shintani: "A movie information discovery system by visualizing relevance of movie information", In the Proc of Tokai-Section Joint Conference of The Institutes of Electrical and Related, Sep, 2004.
60. Yusuke Hiraoka, Tadachika Ozono, **Takayuki Ito**, and Toramatsu Shintani: "On a Mail Perusal Support System Using an Accordion Mail View", In the Proceedings of the Sixty sixth Annual Conference of Information Processing Society of Japan (IPSJ), Information Processing Society of Japan (IPSJ), Mar. 2004.
61. Masaki Komatsu, **Takayuki Ito**, and Toramatsu Shintani: Knowledge Representation Markup Language KRML for information sharing systems, In the Proceedings of the Sixty sixth Annual Conference of Information Processing Society of Japan (IPSJ), Information Processing Society of Japan (IPSJ), Mar. 2004.
62. Hirokazu Taki, Tadachika Ozono, **Takayuki Ito**, and Toramatsu Shintani: "On a JavaScript Code Hiding Method using a Java Applet and an One Time Key", In the CD-ROM of 2004 Tokai-Section Joint Conference of the Institutes of Electrical and Related Engineers, 2004 Tokai-Section Joint Conference of the Institutes of Electrical and Related Engineers, Sep, 2004.
63. Yujiro Fukagaya, Takafumi Yamaya, Hiromitsu Hattori, **Takayuki Ito**, and Toramatsu Shintani: "M-Script: a script language for controlling agents", In the Proc of Tokai-Section Joint Conference of The Institutes of Electrical and Related, Sep, 2004.
64. Miyashita Tsuneo, Yusuke Hiraoka, Masaki Komatsu, Tadachika Ozono, **Takayuki Ito**, and Toramatsu Shintani: "On a Concert Information Recommendations System Using Collaborating Filtering", In the Proc of 2004 Tokai-Section Joint Conference of The Institutes of Electrical and Related Engineers, 2004 Tokai-Section Joint Conference of The Institutes of Electrical and Related Engineers, Sep. 2004.
65. Yasunari Kajikawa, Satoshi Watanabe, Tadachika Ozono, **Takayuki Ito**, and Toramatsu Shintani: "Implementing a Q&A Search System for Discovering Important Claims", In the Proc of 2004 Tokai-Section Joint Conference of The Institutes of Electrical and Related Engineers, 2004

Tokai-Section Joint Conference of The Institutes of Electrical and Related Engineers, Sep. 2004.

66. Tanabe Masaki, Takafumi Yamaya, Tadachika Ozono, **Takayuki Ito**, and Toramatsu Shintani:"An Information Sharing Method between Private Networks for the Document Sharing System MiDoc ",In the Proc of 2004 Tokai-Section Joint Conference of The Institutes of Electrical and Related Engineers, 2004 Tokai-Section Joint Conference of The Institutes of Electrical and Related Engineers, Sep. 2004.
67. Junichi Hayakawa, Yusuke Hiraoka, Tadachika Ozono, **Takayuki Ito**, and Toramatsu Shintani:"On a Color Coordination Support System for Web Pages",In the Proc of 2004 Tokai-Section Joint Conference of The Institutes of Electrical and Related Engineers, 2004 Tokai-Section Joint Conference of The Institutes of Electrical and Related Engineers, Sep. 2004.
68. ShimizuToru, Yusuke Hiraoka, Satoshi Watanabe, Tadachika Ozono, **Takayuki Ito**, and Toramatsu Shintani:"A Slide Show Mechanism for a Mail Viewer", In the Proc of 2004 Tokai-Section Joint Conference of The Institutes of Electrical and Related Engineers, 2004 Tokai-Section Joint Conference of The Institutes of Electrical and Related Engineers, Sep. 2004.
69. Tokuro MATSUO, Masaaki TANAKA, **Takayuki ITO**, Toramatsu SHINTANI, "An Economic Education Support System based on Causal Model",PC Conference, CIEC, 2004.
70. Yuta Nagata, **Takayuki ITO**, and Toramatsu Shintani:"A Knowledge Market Mechanism for Knowledge Sharing System COLM" 18th JSAI Annual Conference 2004, May 2004.
71. Hiromitsu Hattori, **Takayuki ITO**, and Toramatsu Shintani:"The constraints addition method for solution stability in Nurse Scheduling based on Dynamic Valued Constraint Satisfaction Problem," Proc. of the 18th Annual Conference of Japanese Society for Artificial Intelligence(JSAI), May, 2004.
72. Manabu Matsuyama, Yusuke Hiraoka, **Takayuki ITO**, and Toramatsu Shintani: "The trial production of a user profile generation mechanism for paper collection share system -MiDoc- and the evaluation",18th JSAI Annual Conference 2004, May 2004.



73. Masaya Suzuki, **Takayuki ITO**, and Toramatsu Shintani: "Implementation of the system supports the Information share with the strange users in a radio ad hoc network",18th JSAI Annual Conference 2004, May 2004.
74. Yasuto Mukai, Tokuro Matsuo, Hiromitsu Hattori, **Takayuki ITO**, and Toramatsu Shintani: " Receptionist:a Visitor Guideshow System based on Mediate agent in conformity with situation of Organization man", The 18th Annual Conference of JSAI, May 2004.
75. Kazuhiro Hori, Masaki Komatsu, **Takayuki ITO**, and Toramatsu Shintani: "Recommendation mechanism based on the utilization status in book information management system MiBook ",The 18th Annual Conference of JSAI, May 2004.
76. Osamu Kawamura, **Takayuki ITO**, and Toramatsu Shintani: " Feature Extraction Based on Performances Equal to A Quater Note Span, The 18th Annual Conference of JSAI, May 2004.
77. Tokuro Matsuo, **Takayuki ITO**, and Toramatsu Shintani: "An Economic Education Support System using Qualitative Simulations", 18th JSAI Annual Conference 2004, May 2004.
78. Takafumi Yamaya, Hiromitsu Hattori, **Takayuki ITO**, and Toramatsu Shintani: "Location transparency operation for mobile agent and Application of distributed system" The 18th Annual Conference of JSAI, May 2004.
79. Toshihiro Yamaguchi, **Takayuki ITO**, and Toramatsu Shintani: "Implementation of stable re-schedulable nurse work schedule management support system", 18th JSAI Annual Conference 2004, May 2004.
80. Kentaro Nishi, Tokuro Matsuo, Noriharu Tashiro, **Takayuki ITO**, and Toramatsu Shintani: Implementation of HPS for Online Web-Page Creation and Evaluation about it's Usability,"The 18th Annual Conference of JSAI, May 2004.
81. Tokuro MATSUO, **Takayuki ITO**, and Toramatsu SHINTANI, "An e-Learning Support System for Consumers based on Qualitative Simulation ", SIG-CE, Information Processing Society of Japan, 2004.
82. Tokuro MATSUO, **Takayuki ITO**, and Toramatsu SHINTANI, "A Designated Bid Auction Protocol based on Evaluation Values", Technical

report of IEICE, IEICE SIG-AI, 2004 .

83. Masaaki Tanaka, Kentaro Nishi, Noriharu Tashiro, **Takayuki Ito**, and Toramatsu Shintani, "An Integrated Learning Supporting System utilizing Web," 40th Inforcom, JST, 2003.
84. 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
85. KAWAMURA OSAMU, **Takayuki Ito**, and Toramatsu Shintani:" Adlib Imitating System based on a case base of musical performances, ",In the Proceedings of the Sixty sixth Annual Conference of Information Processing Society of Japan (IPSJ), Information Processing Society of Japan (IPSJ),Mar.2004..
86. Masaya Suzuki, **Takayuki Ito**, and Toramatsu Shintani: "Implementation of the information shared system based on the radio ad hoc network by the multi 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..
87. Yasuto Mukai, **Takayuki Ito**, and Toramatsu Shintani:"an Implementation of the auction support system by management of the personalized information using the cellular phone" In the Proceedings of the Sixty sixth Annual Conference of Information Processing Society of Japan (IPSJ) , Information Processing Society of Japan (IPSJ), Mar. 2004..
88. Tomoharu Hasegawa, **Takayuki Ito**, Tadachika Ozono, and Toramatsu Shintani: "An Implementation of A FAQ Generation Support System using a Large Amount of question and answer data in a call center,"In the Proceedings of the Sixty sixth Annual Conference of Information Processing Society of Japan (IPSJ) , Information Processing Society of Japan (IPSJ), Mar. 2004..
89. Yoshinobu Bochi, **Takayuki Ito**, Tadachika Ozono, and Toramatsu Shintani: "Production Rule Generation Unit based on Reinforcement Learning on Soar Architecture," In the Proceedings of the Sixty sixth Annual

Conference of Information Processing Society of Japan (IPSJ) , Information Processing Society of Japan (IPSJ), Mar. 2004..

90. 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..
91. Yuta Nagata, **Takayuki Ito**, and Toramatsu Shintani: "Collaborative On-Line Manual for Programming Support based on user's memo",In the Proceedings of the Sixty sixth Annual Conference of Information Processing Society of Japan (IPSJ), Information Processing Society of Japan (IPSJ),Mar.2004..
92. Takafumi Yamaya, Yuta Nagata, Hiromitsu Hattori, **Takayuki Ito**, and Toramatsu Shintani: "An Implementation of Real-time Location Information Viewer for Mobile Agent System",In the Proceedings of the Sixty sixth Annual Conference of Information Processing Society of Japan (IPSJ), Information Processing Society of Japan (IPSJ),Mar.2004..
93. Tokuro Matsuo, **Takayuki Ito**, and Toramatsu Shintani: "A Designated Bid Reverse Auction based on Seller Evaluations", In the Proceedings of the Sixty sixth Annual Conference of Information Processing Society of Japan (IPSJ) , Information Processing Society of Japan (IPSJ), Mar. 2004..
94. 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..
95. 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..
96. Manabu Matsuyama, Yusuke Hiraoka, Satoshi Watanabe, **Takayuki Ito**, and Toramatsu Shintani: "About the user profile generation based on the keyword extraction using the collection paper,"In the Proceedings of the Sixty sixth Annual Conference of Information Processing Society of Japan

- (IPSJ), Information Processing Society of Japan (IPSJ),Mar.2004..
97. 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..
  98. 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..
  99. Kazuhiro Hori, Masaki Komatsu, **Takayuki Ito**, and Toramatsu Shintani: "An implementation of the agent based book information management system MiBook",In the Proceedings of the Sixty sixth Annual Conference of Information Processing Society of Japan (IPSJ), Information Processing Society of Japan (IPSJ),Mar.2004..
  100. 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..
  - 101.Satoshi Watanabe, **Takayuki Ito**, and Toramatsu Shintani: "Papers Management Supporting System Based on Distributed Information Sharing Environment,"In the Proceedings of the Sixty sixth Annual Conference of Information Processing Society of Japan (IPSJ) , Information Processing Society of Japan (IPSJ), Mar. 2004..
  102. 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..
  103. 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 (**Research Award**).

104. Masaki HYODO, Tokuro MATSUO, Takayuki ITO, Susumu KUNIFUJI, "A Travel Planning Support System based on Genetic Algorithms", Proc. of 2003 Hokuriku-Section Joint Conference of Electrical and Related Engineers, Toyama, Japan, September 2003.
105. Hirokazu Taki, Tadachika Ozono, **Takayuki Ito**, and Toramatsu Shintani: "Restaurant Selection Support System with Web Proxy Agent" In the Record of 2003 Tokai Section joint Conference of the Institutes of Electrical and Related Engineers, pp.260, Institutes of Electrical and Related Engineers, Oct. 2002.
106. Tomoharu Hasegawa, **Takayuki Ito**, Tadachika Ozono, and Toramatsu Shintani: "feature selection of the question and answer data for FAQ generation support system ," In the Record of 2003 Tokai Section joint Conference of the Institutes of Electrical and Related Engineers, Institutes of Electrical and Related Engineers, pp.258, Oct.2003.
107. Takafumi Yamaya, Yuta Nagata, Hiromitsu Hattori, **Takayuki Ito**, and Toramatsu Shintani: "An Implementation of a Viewer that supports Agent Test-Debug on a Mobile Agent Framework, MiLog," In the Record of 2003 Tokai Section joint Conference of the Institutes of Electrical and Related Engineers, Institutes of Electrical and Related Engineers, Oct.2003.
108. Yusuke Hiraoka, Tomoharu Hasegawa, Yoshinobu Bochi, **Takayuki Ito**, and Toramatsu Shintani: "Mail perusal support with a cellular phone", in the Proc of Tokai-Section Joint Conference of The Seven Institutes of Electrical and Related Engineers, pp.261, Oct, 2003.
109. Mariko Taga, **Takayuki Ito**, and Toramatsu Shintani: "Making a Plan of Television Program Support System," In the Record of 2003 Tokai Section joint Conference of the Institutes of Electrical and Related Engineers, pp.262, Institutes of Electrical and Related Engineers, Oct.2003.
110. Takeshi konagaya, Yuta Nagata, **Takayuki Ito**, and Toramatsu Shintani: "The help system consulting Blog for use in User's Web consult history," In the Record of 2003 Tokai Section joint Conference of the Institutes of Electrical and Related Engineers, Institutes of Electrical and

- Related Engineers, pp.237-237 , Oct.2003.
111. Yuta Nagata, **Takayuki Ito**, Tadachika Ozono, and Toramatsu Shintani:"On-line manual producing support system based on user's memo",In the Proc of Tokai-Section Joint Conference of The Seven Institutes of Electrical and Related Engineers,pp.260, Oct, 2003.
  112. Kentaro Nishi, Noriharu Tashiro, **Takayuki Ito**, and Toramatsu Shintani:"Web page creation support system by the direct input from a browser," In the Record of 2003 Tokai Section Joint Conference of the Institutes of Electrical and Related Engineers, pp261, Institutes of Electrical and Related Engineers, Oct. 2003.
  113. Masaya Suzuki, Tadachika Ozono, **Takayuki Ito**, and Toramatsu Shintani:"An Implementation of a Peer-to-Peer type Research Support System with Paper Recommendation Mechanism by Using Bibliography Information,"In the Record of 2003 Tokai Section joint Conference of the Institutes of Electrical and Related Engineers,Institutes of Electrical and Related Engineers, pp.253, Oct.2003.
  114. Atsushi Isomura, Tadachika Ozono, **Takayuki Ito**, and Toramatsu Shintani:"Re-scheduling a roster based on Dynamic Valued Constraint Satisfaction Problems," In the Record of 2003 Tokai Section joint Conference of the Institutes of Electrical and Related Engineers,Institutes of Electrical and Related Engineers, pp.231, Oct.2003.
  115. Masaki Komatsu, Hiromitsu Hattori, **Takayuki Ito**, and Toramatsu Shintani:"Information Management Support System InfoManager on Internet Auctions," In the Record of 2003 Tokai Section Joint Conference of the Institutes of Electrical and Related Engineers, pp252, Institutes of Electrical and Related Engineers, Oct. 2003.
  116. Manabu Matsuyama, Satoshi Watanabe, **Takayuki Ito**, and Toramatsu Shintani:"The trial production of an information share mechanism using the user profile based on the statistical keyword extraction technique, " In the Record of 2003 Tokai Section joint Conference of the Institutes of Electrical and Related Engineers, Institutes of Electrical and Related Engineers, pp.259 , Oct.2003.
  117. Yoshinari Takeyama, **Takayuki Ito**, and Toramatsu Shintani:"The trial

- production of the portal page creation support system using RSS, "In the Record of 2003 Tokai Section Joint Conference of the Institutes of Electrical and Related Engineers, pp.262, Institutes of Electrical and Related Engineers, Oct. 2003.
118. Toshihiro Yamaguchi, **Takayuki Ito**, and Toramatsu Shintani: "Visualization of the bookmark with 3D in a Web browser." In the Record of 2003 Tokai Section joint Conference of the Institutes of Electrical and Related Engineers, Institutes of Electrical and Related Engineers, Oct. 2003.
  119. Tokuro Matsuo, **Takayuki Ito**, and Toramatsu Shintani: "A Structural Model for Qualitative Simulation-based a Contractors' Decision Support System", in the Proc of Tokai-Section Joint Conference of The Seven Institutes of Electrical and Related Engineers, Oct, 2003.
  120. Kazuhiro Hori, **Takayuki Ito**, Tadachika Ozono, and Toramatsu Shintani: "Implementation of apparatus of emotion in BDI Agent," In the Record of 2003 Tokai Section joint Conference of the Institutes of Electrical and Related Engineers, pp.249, Institutes of Electrical and Related Engineers, Oct. 2003.
  121. 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 (**Research Award**).
  122. Yasuto Mukai, Atsushi Isomura, Hiromitsu Hattori, **Takayuki Ito**, and Toramatsu Shintani: "An Implementation of the task integrated system using groupwares ," In the Record of 2003 Tokai Section joint Conference of the Institutes of Electrical and Related Engineers, pp259, Institutes of Electrical and Related Engineers, Oct. 2003.
  123. Satoshi Watanabe, **Takayuki Ito**, Tadachika Ozono, and Toramatsu Shintani: "User models construction method using scale-free network for paper information recommendation," In the Record of 2003 Tokai Section joint Conference of the Institutes of Electrical and Related Engineers, Institutes of Electrical and Related Engineers, pp.237, Tokai

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

124. Yoshinobu Bochi, **Takayuki Ito**, Tadachika Ozono, and Toramatsu Shintani: "Rule Generation based on Reinforcement Learning and Subgoaling Using Background Knowledge on Soar Architecture," In the Record of 2003 Tokai Section joint Conference of the Institutes of Electrical and Related Engineers, Vol. 1, No. 1, p 234, Institutes of Electrical and Related Engineers, Oct. 2003.
125. Yusuke Hiraoka, Tomoharu Hasegawa, Yoshinobu Bochi, **Takayuki Ito**, and Toramatsu Shintani: "Contents Simplification for Reading Mails on Cellular Phones" In the Proceedings of the 20th Annual Conference of Japan Society for Software Science and Technology ÅC Japan Society for Software Science and Technology, September 2003, [in Japanese]
126. Satoshi Watanabe, **Takayuki Ito**, Tadachika Ozono, and Toramatsu Shintani: "User Models Using Scale-free Network in Research Activities," In the Proceedings of the 20th Annual Conference of Japan Society for Software Science and Technology (JSSST), Japan Society for Software Science and Technology (JSSST), Sep. 2003, [in Japanese]
127. Yasuto Mukai, Atsushi Isomura, Hiromitsu Hattori, **Takayuki Ito**, and Toramatsu Shintani: "An Implementation of a Communication Support System based on Multi-Agents," In the Proceedings of the 20th Annual Conference of Japan Society for Software Science and Technology ÅC Japan Society for Software Science and Technology, September 2003, [in Japanese]
128. Atsushi Isomura, Tadachika Ozono, **Takayuki Ito**, and Toramatsu Shintani: "Nurse Scheduling System based on a Dynamic Valued Constraint Satisfaction," In the Proceedings of the 20th Annual Conference of Japan Society for Software Science and Technology (JSSST), Japan Society for Software Science and Technology (JSSST), Sep. 2003, [in Japanese]
129. Toshihiro Yamaguchi, **Takayuki Ito**, and Toramatsu Shintani: "Visualization of Web Bookmark and Browsing Histories with 3D Technology," In the Proceedings of the 20th Annual Conference of Japan Society for Software Science and Technology (JSSST), Japan Society for



- Software Science and Technology (JSSST), Sep.2003,.[in Japanese]
130. Tomoharu Hasegawa, Tadachika Ozono, **Takayuki Ito**, and Toramatsu Shintani:"A FAQ generation support system using the question and answer data in a call center," In the Proceedings of the 20th Annual Conference of Japan Society for Software Science and Technology (JSSST), Japan Society for Software Science and Technology (JSSST), Sep.2003,[in Japanese]
  - 131.Yuta Nagata, **Takayuki Ito**, Tadachika Ozono, and Toramatsu Shintani: "Implementing a Collaborative On-Line Manual for Logic Programming Language MiLog" In the Proceedings of the 20th Annual Conference of Japan Society for Software Science and Technology (JSSST), Japan Society for Software Science and Technology (JSSST), Sep.2003,[in Japanese]
  132. Yoshinobu Bochi, Tadachika Ozono, **Takayuki Ito**, and Toramatsu Shintani: "Implementation of Rule Generation and Conflict Resolution Unit Using Reinforcement Learning on Soar Architecture," In the Proceedings of the 20th Annual Conference of Japan Society for Software Science and Technology (JSSST), Japan Society for Software Science and Technology (JSSST), Sep.2003,[in Japanese]
  133. Noriharu Tashiro, **Takayuki Ito**, and Toramatsu Shintani: "A Mechanism of Web-page Online Partial Editing Mechanism and its Application," In the Proceedings of the 20th Annual Conference of Japan Society for Software Science and Technology (JSSST), Japan Society for Software Science and Technology (JSSST), Sep.2003,[in Japanese]
  134. Takafumi Yamaya, Yuta Nagata, Hiromitsu Hattori, **Takayuki Ito**, and Toramatsu Shintani:"An Implementation of an Agent Viewer that Supports Location Transparency on a Mobile Agent Framework, MiLog," In the Proceedings of the 20th Annual Conference of Japan Society for Software Science and Technology (JSSST), Japan Society for Software Science and Technology (JSSST), Sep.2003,[in Japanese]
  135. Tokuro Matsuo, **Takayuki Ito**, Hiromitsu Hattori, and Toramatsu Shintani: "A Qualitative Simulation Model for Buyers' Decision Making", In the Proceedings of the 20th Annual Conference of Japan Society for Software Science and Technology (JSSST), Japan Society for Software Science and Technology (JSSST), Sep.2003. [in Japanese]

136. Masaki HYODO, Tokuro MATSUO, **Takayuki ITO**, and Susumu Kunifuji, "On the Real-Time Coalition Formation Support Algorithm for the Electronic Group Buying", In the Technical Report of the Institute of Electronics, Information, and Communication Engineers, pp.25-30, 2003
137. Masaaki Tanaka, Noriharu Tashiro, Kentaro Nishi, **Takayuki Ito**, Tadachika Ozono, Toramatsu Shintani, "A Method of Learning by Investigation and Experience utilizing the an Excursion Ticket", Summer Symposium in Shizuoka 2003 (SSS2003), SIG-CE, Information Processing Society of Japan, 2003.
138. Tokuro MATSUO, Masaki HYODO, **Takayuki ITO**: "A Buyer Allocation Support System in First-Price Auctions", SICE Annual Conference 2003 (SICE2003).
139. Masaki HYODO, Tokuro MATSUO, **Takayuki ITO**: "An Optimal Coalition Formation Algorithm for Electronic Group Buying", SICE Annual Conference 2003 (SICE2003).
140. Toshiyuki Hirata, Kazuhisa Ooguri and **Takayuki Ito**, "An Implementation of A Location Information Display Interface based on User's Permission-based Privacy", Proceedings of the 65th Annual Conference of Information Processing Society of Japan (IPSJ), 2003.
141. Masaki Hyodo, Tokuro Matsuo and **Takayuki Ito**, "Real-Time Coalition Formation in Electronic Group Buying based on a Genetic Algorithm", Proceedings of the 65th Annual Conference of Information Processing Society of Japan (IPSJ), 2003.
142. 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 Award**).
143. Tokuro Matsuo and **Takayuki Ito**, "Effects of Group Integration based on Users' Multi-attribute Utilities in an e-Group Buying Market", Proceedings of the 65th Annual Conference of Information Processing Society of Japan (IPSJ), 2003.
144. Kunihiro Yamashita, Susumu Kunifuji, Kazushi Nishimoto, **Takayuki Ito**, and Kazunori Miyata: "The Applications of Position Information

- Awareness Server in the Knowledge Creation Buildings", Special Interest Group on Groupware and Network services (SIG-GN), Information processing Society of Japan (IPSJ), pp. 65-70, 2003. (in Japanese).
145. Tokuro MATSUO, **Takayuki ITO**: "A Group Coalition Support System based on Multi Attribute Preferences in e-Group Buying ", Special Interest Group on Intelligence and Complex Systems (SIG-ICS), Information Processing Society of Japan (IPSJ), 2002. (in Japanese).
  146. Toshiki KAMIYA, **Takayuki ITO**: "An Information Sharing and Messaging System based on Memos", Hokuriku-Section Joint Conference of Electrical and Related Engineers, p.362, 2002. (in Japanese)
  147. Tokuro MATSUO, **Takayuki ITO**: "A Group Integration in a Group Buying Support System based on Substitute Goods", Hokuriku-Section Joint Conference of Electrical and Related Engineers, 2002. (in Japanese)
  148. Kazuhisa Oguri, **Takayuki Ito**: "An Approach to Learning Location Information for A Community Support System", SICE Annual Conference (SICE2002), 2002.
  149. Tokuro Matsuo, **Takayuki Ito**: "An Implementation of a Group Buying Support System based on Buyers' Preference", SICE Annual Conference (SICE2002), 2002.
  150. Akihito Nakagawa, **Takayuki Ito**: "An Implementation of A Knowledge Recommendation System based on Similarity among User's Profiles ", SICE Annual Conference (SICE2002), 2002.
  151. Tokuro MATSUO, **Takayuki ITO**: "A Designated Bidding Reverse Auction based on a Buyer's Preference.", 16th Annual Conference of Japanese Society for Artificial Intelligence (JSAI), Japanese Society for Artificial Intelligence (JSAI), 2002.
  152. Tokuro Matsuo, **Takayuki ITO** ``A Multiagent Reverse Auction based on Designated Bids," Proceedings of the 64th Annual Conference of Information Processing Society of Japan (IPSJ) (2), pp.189-190, 2002.
  153. Kosuke Shinoda, **Takayuki ITO**, Susumu Kunifuji, "The distributed cooperation planning for heterogeneous agents on RoboCup-Rescue," Proceedings of the 2nd SICE System Integration Division Conference (SI2001), pp.341-342, 2001.

154. Hiromitsu HATTORI, **Takayuki ITO**, and Toramatsu SHINTANI, ``On a Commerce Mechanism based on Coalition Formation among Agents in Agent-mediated Electronic Commerce", 10th Multi-Agents and Cooperative Computation (MACC2001), 2001.
155. Naoki Fukuta, **Takayuki Ito**, Toramatsu Shintani, "On Implementing an Intelligent Mobile Agent-based Web Page Constructing Framework, MiPage," Proceedings of the 53th SIG-KBS, Japanese Society for Artificial Intelligence(JSAI), 2001.
156. Naoki FUKUTA, **Takayuki ITO**, Tadachika OZONO, and Toramatsu SHINTANI, ``On Implementing Anytime Migration on the Mobile Agent Description Language MiLog," Proceedings (3) of the 62th Annual Conference of Information Processing Society of Japan (IPSJ), pp.439-440, 2001.
157. Takahiro TANAKA, Hiromitsu HATTORI, **Takayuki ITO**, Tadachika OZONO, and Toramatsu SHINTANI, ``Implementing a Hierarchical Consensus Mechanism for Group Decision Support," Proceedings (2) of the 62th Annual Conference of Information Processing Society of Japan (IPSJ), pp.57-58, 2001.
158. Hiroyuki OCHI, Hiromitsu HATTORI, **Takayuki ITO**, Tadachika OZONO, and Toramatsu SHINTANI, ``A Realization of A Multi-Agent Cooperative System for Group Buy," Proceedings (2) of the 62th Annual Conference of Information Processing Society of Japan (IPSJ), pp.55-56, 2001.
159. Hiromitsu HATTORI, **Takayuki ITO**, Tadachika OZONO, and Toramatsu SHINTANI, ``A Coalition Formation Method using Argumentation-based Negotiation in Multi-agent Systems," Proceedings (2) of the 62th Annual Conference of Information Processing Society of Japan (IPSJ), pp.51-52, 2001.
160. Ryota Yamada, **Takayuki Ito**, Naoki Fukuta, and Toramatsu Shintani:" Wrapper Generating Mechanism for Multiple Instance Sources on WWW, " In the Proceedings of the 2000 Society Conference of Institute of Electronics, Information and Communication Engineers (IEICE), pp.91, Institute of Electronics, Information and Communication Engineers

(IEICE), Oct. 2000.

161. Hirokazu Soejima, Naoki Fukuta, Tadachika Ozono, **Takayuki Ito**, and Toramatsu Shintani: " An Inter-Agent's Private Information Sharing Method based on Friendship, " In the Proceedings of the 2000 Society Conference of Institute of Electronics, Information and Communication Engineers (IEICE), pp.82, Institute of Electronics, Information and Communication Engineers (IEICE), Oct. 2000.
162. Hiromitsu Hattori, **Takayuki Ito**, and Toramatsu Shintani: " On Agent Negotiation Method Based on Exchanging of Attribute in Multiattribute Decision Problem and its Application, " In the Proceedings of the 2000 Society Conference of Institute of Electronics, Information and Communication Engineers (IEICE), pp.87, Institute of Electronics, Information and Communication Engineers (IEICE), Oct. 2000.
163. Takahiro Tanaka, Hiromitsu Hattori, **Takayuki Ito**, and Toramatsu Shintani: " A Choosing Party Place Support System Based on Hierarchical Consensus Mechanism, " In the Proceedings of the 2000 Society Conference of Institute of Electronics, Information and Communication Engineers (IEICE), pp.83, Institute of Electronics, Information and Communication Engineers (IEICE), Oct. 2000.
164. Hiroyuki Ochi, Hiromitsu Hattori, **Takayuki Ito**, and Toramatsu Shintani: " Implementing a Multi-Agent Negotiation System based on Group Discount, " In the Proceedings of the 2000 Society Conference of Institute of Electronics, Information and Communication Engineers (IEICE), pp.85, Institute of Electronics, Information and Communication Engineers (IEICE), Oct. 2000.
165. Ryota Yamada, **Takayuki Ito**, Naoki Fukuta, and Toramatsu Shintani: " On Wrapper Generating Method Based on Comparing Tree Structured HTML Descriptions, " In the Record of 2000 Tokai Section Joint Conference of the Institutes of Electrical and Related Engineers, pp.299, Institutes of Electrical and Related Engineers, Sep. 2000.
166. Takahiro TANAKA, **Takayuki ITO**, and Toramatsu SHINTANI, "A Hierarchical Consensus Mechanism among Agents for Organizational Decision Making ," Proceedings of the 14th Annual Conference of Japanese

- Society for Artificial Intelligence(JSAI), Japanese Society for Artificial Intelligence(JSAI), 2000.
167. Hiroyuki OCHI, **Takayuki ITO**, and Toramatsu SHINTANI, "Implementing a Multi-Agent Electronic Commerce Support System based on Group Discount," Proceedings of the 14th Annual Conference of Japanese Society for Artificial Intelligence(JSAI), Japanese Society for Artificial Intelligence(JSAI), 2000.
  168. Ryota YAMADA, **Takayuki ITO**, Naoki FUKUTA and Toramatsu SHINTANI, "On Wrapper Generating Mechanism of Information Agents for Multiple Auction Bidding Support System BiddingBot," Proceedings of the 14th Annual Conference of Japanese Society for Artificial Intelligence(JSAI), Japanese Society for Artificial Intelligence(JSAI), 2000.
  169. Hirokazu SOEJIMA, Naoki FUKUTA, Tadachika OZONO, **Takayuki ITO**, and Toramatsu SHINTANI, "FriendRing: A Inter-Mobile Agents Cooperative Method Based on The Relationship by Adopting Confidential Degrees," Proceedings of the 14th Annual Conference of Japanese Society for Artificial Intelligence(JSAI), Japanese Society for Artificial Intelligence(JSAI), 2000.
  170. Syuichi KOJIMA, **Takayuki ITO**, Toramatsu SHINTANI, ``An Implementation of a Conference Coordination System based on the Weighted Distributed Truth Maintenance Mechanism," Proceedings (2) of the 60th Annual Conference of Information Processing Society of Japan (IPSJ), pp.159-160, 2000.
  171. Ryota YAMADA, **Takayuki ITO**, Naoki FUKUTA, Toramatsu SHINTANI, ``On a Bidding Support Mechanism for *BiddingBot*, an Online Auction Support System," Proceedings (2) of the 60th Annual Conference of Information Processing Society of Japan (IPSJ), pp.21-22, 2000.
  172. Hiromitsu HATTORI, **Takayuki ITO**, Toramatsu SHINTANI, ``On a consensus by an argumentation based negotiation among agents using illocutions," Proceedings (2) of the 60th Annual Conference of Information Processing Society of Japan (IPSJ), pp.15-16, 2000.
  173. Naoki Fukuta, **Takayuki ITO**, and Toramatsu SHINTANI: ``Weblog: On Implementing A Logic-based Information Gathering Agent

- Description Language for WWW."Proceedings of the 8th Workshop on Multi-Agents and Cooperative Computation (MACC99), 1999.
174. Hiromitsu HATTORI, **Takayuki ITO**, Toramatsu SHINTANI: ``A multiagent negotiation method based on individual negotiation strategy in "Nemawashi", Proceedings of the 13th Annual Conference of Japanese Society for Artificial Intelligence (JSAI), Japanese Society for Artificial Intelligence (JSAI), pp.421-424, 1999.
  175. Hiromitsu HATTORI, **Takayuki ITO**, Toramatsu SHINTANI: ``Negotiation-Agents Based on the Nemawashi Mechanism and its Application,"Record of 1998 Tokai-Section Joint Conference of The Seven Institutes of Electrical and Related Engineers, p.287, 1998.
  176. Hiromitsu HATTORI, **Takayuki ITO**, Toramatsu SHINTANI, ``On Agent Negotiation by using Nemawashi Mechanism Based on Utility Theory,"Proceedings of the 58th Annual Conference of Information Processing Society of Japan (IPSJ), pp.209-210, 1999.
  177. Hiromitsu HATTORI, **Takayuki ITO**, Toramatsu SHINTANI: ``On Agent Negotiation Based on Nemawashi Mechanism and its Application," Proceedings of the 57th Annual Conference of Information Processing Society of Japan (IPSJ), pp.402-403, 1998.
  178. Atsushi MIZUTANI, **Takayuki ITO**, Toramatsu SHINTANI: ``On a Conflict Avoiding Method for Group Scheduling using Persuasion among Mobile-agents," Proceedings of the 56th Annual Conference of Information Processing Society of Japan (IPSJ), pp.414-415, 1998.
  179. Takuya MIZUGUCHI, **Takayuki ITO**, Toramatsu SHINTANI: ``Implementing a GDSS using WWW search Agent," Proceedings of the 56th Annual Conference of Information Processing Society of Japan (IPSJ), 1998.
  180. Hiromitsu HATTORI, **Takayuki ITO**, Toramatsu SHINTANI: ``A multiagent negotiation method based on user's character and its application," Proceedings of the 12th Annual Conference of Japanese Society for Artificial Intelligence (JSAI), Japanese Society for Artificial Intelligence (JSAI), pp.564-565, 1998.
  181. Norikatsu NAGINO, **Takayuki ITO**, Toramatsu SHINTANI:

``Implementing Journey Plan Support System Based on Coalition Game,"  
Proceedings of the 10th Annual Conference of Japanese Society for  
Artificial Intelligence (JSAI), Japanese Society for Artificial Intelligence  
(JSAI), pp.147-150, 1996.

182. Yoshio KAWAKAMI, **Takayuki ITO**, Toramatsu SHINTANI: ``Making  
of Multiagent system for trial purposes based on Distributed  
TMS,"Proceedings of the 9th Annual Conference of Japanese Society for  
Artificial Intelligence (JSAI), Japanese Society for Artificial Intelligence  
(JSAI), pp.273-276, 1994.