

## CURRICULUM VITAE

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誕生日: 1953 年 7 月 17 日 京都 祇園祭山鉾巡航

## EMPLOYMENT HISTORY

- 2014-2018: 客員教授 (October 2014 - October 2018), 新疆大学.
- 2014-2017 Distinguished Professor of Science, (September 2014 - August 2017), Hong Kong Baptist University.
- 1998-現在: 教授 (April 1998), 京都大学大学院 情報学研究科 社会情報学専攻.
- 2008-2013: 客員教授, 国立情報学研究所.
- 2011 夏: 客員教授, (June 2011 - July 2011), Department of Computer Science, Hong Kong Baptist University.
- 2006-2011: プロジェクトリーダー (April 2006 - March 2011), 言語グリッド, 独立行政法人情報通信研究機構.
- 2002-2009: 客員教授 (December 2002 - November 2005, February 2006 - January 2009), 上海交通大学.
- 2006 summer: 客員教授 (August 2006 - September 2006), 清華大学計算機系.
- 1998-2005: リサーチプロフェッサ (October 1998 - March 2005), NTT コミュニケーション科学基礎研究所.
- 2003 夏: 招聘教授, Laboratoire d'Informatique de Paris 6, Universite Pierre et Marie Curie.
- 2002 夏: 客員教授, Institute for Advanced Computer Studies, University of Maryland.
- 2000 春: 招聘教授, Laboratoire d'Informatique de Paris 6, Universite Pierre et Marie Curie.
- 1993-1997: 教授 (July 1993), 京都大学大学院 工学研究科 情報工学専攻.
- 1996 夏: 客員教授, Institut fuer Informatik, Technische Universitaet Muenchen.
- 1991-1993: 主幹研究員, NTT コミュニケーション科学研究所.
- 1989-1991: 主幹研究員, NTT 情報通信処理研究所.
- 1985-1988: 主任研究員, NTT 情報通信処理研究所.

1983-1984: 客員研究員, Department of Computer Science, Columbia University, New York.

1978-1982: 研究員, 日本電信電話公社横須賀電気通信研究所.

## EDUCATION

1989: 京都大学工学博士 (論文博士)

博士論文:プロダクションシステムの高速化に関する研究

1978: 京都大学大学院工学研究科修士課程修了

1976: 京都大学工学部情報工学科卒業

## AREAS OF INTEREST

1. Language Services Infrastructure
2. Digital Cities and Intercultural Collaboration
3. Groupware and Communityware
4. Autonomous Agents and Multiagent Systems
5. Problem Solving, Planning and Heuristic Search
6. Parallel and Distributed Computing.

## PROFESSIONAL ACTIVITIES

### Association

1. *Member* of the Scientific Council of Web Science Research Initiative, 2008-2011.
2. *Member* of the AAAI Presidential Panel on Long-Term AI Futures, 2008-2009.
3. *Board Member* of the International Foundation on Autonomous Agents and Multiagent Systems, IFAAMAS, 2007-2008.
4. *Board Member* of the International Foundation on Multiagent Systems, IFMAS, 1998-2002, 2004-2006.

### Journals and Books

1. *Editorial Board Member* of *Designs*, Multidisciplinary Digital Publishing Institute, 2016-.
2. *Advisory Board* of the Journal of Ambient Intelligence and Smart Environments (JAISE), Springer-Verlag, 2008-.
3. *Editorial Board Member* of *Language@Internet!* 2008-.
4. *Associate Editor* of the Journal of Autonomous Agents and Multi-Agent Systems, Kluwer Academic Publishers, 1997-.

5. *Associate Editor* of International Journal of Artificial Intelligence Tools, World Scientific, 1996-.
6. *Editorial Board Member* of International Journal of Web Intelligence and Agent Systems, 2002-2014.
7. *Editorial Board Member* of Web Semantics: Journal of Science, Services and Agents on World Wide Web, Elsevier, 2006-2010.
8. *Area Editor* (Artificial Intelligence) of the Journal of Computer Science and Technology, 2007-2009.
9. *Editorial Board Member* of Handbook of Research on Knowledge-Intensive Organization. Information Science Reference, 2008.
10. *Series Editor* of Springer Book Series of Agent Technology, Springer-Verlag, 2001-2006.
11. *Editor-in-Chief* of Web Semantics: Journal of Science, Services and Agents on World Wide Web, Elsevier, 2003-2005.
12. *Editorial Board* of the Journal of Computational & Mathematical Organization Theory, Kluwer Academic Publishers, 1995-2003.
13. *Editorial Board Member* of the Information Society, An International Journal, 1998-2001.
14. *Associate Editor* of IEEE Transactions on Pattern Analysis and Machine Intelligence, 1996-1999.
15. *Editorial Board* of the Journal of Artificial Intelligence Research JAIR, Morgan Kaufmann, 1995, 1996.

#### Conferences

1. *Honorary Chair* of International Conference on Electronic Commerce, Korea, 2016.
2. *Honorary Chair* of German Conference Series MATES on Multiagent System Technologies, 2016.
3. *General Co-Chair* of International Conference on Culture and Computing, 2012, 2013, 2015.
4. *Committee Chair* of IFAAMAS Award for Influential Papers in Autonomous Agents and Multiagent Systems, 2014.
5. *Scientific Committee Member* of Language Resources and Evaluation Conference, LREC, 2008, 2010, 2012, 2014.
6. *Program Committee Member* of International Conference on Practical Applications of Agents and Multi-Agent Systems, PAAMS, 2014.
7. *Program Co-Chair* of International Conference on Practical Applications of Agents and Multi-Agent Systems, PAAMS, 2013.
8. *Program Committee Member* of Global Wordnet Conference 2011.
9. *General Co-Chair* of International Conference on Semantics, Knowledge and Grid, SKG, 2011.
10. *Scientific Committee Member* of International Conference on Practical Applications of Agents and Multi-Agent Systems, PAAMS, 2009-2011.

11. *Conference Co-Chair* of International Conference on Culture and Computing, 2011.
12. *Conference Chair* of International Conference on Culture and Computing, 2010.
13. *Senior Program Committee Member* of International Conference on Autonomous Agents and Multiagent Systems, AAMAS, 2005, 2007, 2010.
14. *Program Co-Chair* of ACM International Conference on Intercultural Collaboration, ICIC, 2010.
15. *Program Committee Member* of IEEE International Conference on Web Services, ICWS, 2009-2010.
16. *Program Committee Member* of IEEE International Conference on Services Computing, SCC, 2009-2010.
17. *Program Committee Member* of IEEE International Conference on Web Services, ICWS, 2010.
18. *Program Committee Member* of Web Science conference, WebSci, 2009-2010.
19. *Program Committee Member* of Fifth International Conference on Computing Sciences: Research, Innovation and Vision for the Future, RIVF, 2007-2010.
20. *Program Committee Member* of IEEE International Conference on Service-Oriented Computing and Applications, SOCA, 2009.
21. *Program Committee Member* of International Conference on Global Interoperability for Language Resources, ICIG, 2008.
22. *Program Committee Member* of International Conference on Intelligent Information Processing, IIP, 2008.
23. *Program Committee Member* of International Conference on Knowledge Science, Engineering and Management, KSEM, 2007.
24. *Program Committee Member* of International Conference on Communities & Technologies, C&T, 2005, 2007.
25. *Program Committee Member* of German Conference on Multiagent Systems Technologies, MATES, 2005-2006.
26. *Program Co-Chair* of International Conference on Semantics, Knowledge and Grid, SKG, 2006.
27. *General Co-Chair* of International Conference on Intelligent Information Processing, IIP, 2006.
28. *Program Committee Member* of International Semantic Web Conference, ISWC, 2006.
29. *International Advisory Committee Member* of International Conference on Knowledge, Information, and Creativity Support Systems, KICSS, 2006.
30. *Program Committee Member* of World Congress on Social Simulation, WCSS, 2006.
31. *Doctoral Mentoring Co-Chair* of International Conference on Autonomous Agents and Multiagent Systems, AAMAS, 2006.
32. *Track Co-Chair* of Fourth International Conference on Computing Sciences: Research, Innovation and Vision for the Future, RIVF, 2006.
33. *Advisory Board Member*, International Conference on Semantics, Knowledge and Grid, SKG,

2005.

34. *Program Committee Member* of IFIP International Conference on Intelligent Information Processing, ICIIP, 2004.
35. *Senior Program Committee Member* of Third International Semantic Web Conference, ISWC, 2004.
36. *Program Committee Member* of Third International Conference on Autonomous Agents and Multiagent Systems, AAMAS, 2004.
37. *General Co-Chair* of First International Conference on Autonomous Agents and Multiagent Systems, AAMAS, 2002.
38. *Senior Program Committee Member* of Fourth International Conference on Autonomous Agents, Agents, 2001.
39. *Program Vice-Chair* of First International Symposium on Applications and the Internet, SAINT, 2001.
40. *Program Committee Member* of Second Asia-Pacific Conference on Intelligent Agent Technology, IAT, 2001.
41. *Program Committee Member* of International Conferences on Info-tech & Info-net, 2001.
42. *Program Vice-Chair* of 20th International Conference on Distributed Computing Systems, ICDCS, 2000.
43. *Program Committee Member* of International Conference on Multiagent Systems, ICMAS, 1995-1996, 1998, 2000.
44. *Advisory Committee Member* of International Conference on Multiagent Systems, ICMAS, 1995-1996.
45. *Program Committee Member* of Fifth European Conference on Planning, ECP, 1999.
46. *Program Committee Member* of Third International Conference on Autonomous Agents, Agents, 1999.
47. *Organizing Committee Member* of International Conference on Computers in Education, ICCE, 1999.
48. *Program Committee Member* of International Conference on Parallel Processing, ICPP, 1999.
49. *Program Committee Member* of International Conference and Exhibition on the Practical Application of Intelligent Agents and Multi-Agent Technology, PAAM, 1996-1999.
50. *Program Committee Member* of First International Conference on Information and Computational Economies, 1998.
51. *Program Vice-Chair* of 18th International Conference on Distributed Computing Systems, ICDCS, 1998.
52. *Program Committee Member* of 15th International Joint Conference on Artificial Intelligence, IJCAI, 1997.

53. *Member of COP3 Information Support Committee of Kyoto, 1997*
54. *Technical Program Committee Member of IEEE Infocom, Infocom-97, 1997.*
55. *Program Co-Chair of the International Conference on Multiagent Systems, ICMAS, 1996.*
56. *Program Committee Member of National Conference of Artificial Intelligence, AAAI, 1996.*
57. *Advisory Committee Member of International Conference on Multiagent Systems ICMAS, 1995, 1996.*
58. *Program Committee Member / Video Track Chair of 13th International Joint Conference on Artificial Intelligence, IJCAI, 1993.*
59. *Program Committee Member of International Conference on Distributed Computing Systems, ICDCS, 1992.*

#### Associations in Japan

1. 社会情報学会 (SSI) 理事, 2017.6-2019.6.
2. 特定非営利活動法人言語グリッドアソシエーション理事長, 2017-2019 (設立総会 2016.12.9) .
3. 日本学術会議会員 (22-23 期, 3 部) 2011.10-2017.9.
4. 特定非営利活動法人多文化共生センターきょうと理事, 2010-.
5. 電子情報通信学会副会長・理事, 2014.5-2016.5.
6. 特定非営利活動法人セマンティック・コンピューティング研究開発機構理事, 2008-2015.
7. 電子情報通信学会情報システムソサイエティ次期会長・理事, 2010, 会長・理事, 2011.
8. 日本社会情報学会 (JASI) 理事, 1999-2005, 2008-2011.
9. 情報処理学会代表委員, 2007-2008, 2010-2011.
10. 日本学術会議連携会員, 2006.8-2011.9.
11. 情報処理学会理事, 2002-2003, 2005-2006.
12. 人工知能学会評議員, 1995-1998, 2002-2005.
13. イメージ情報科学研究所評議員, 1998-2005.
14. 国立民俗学博物館共同研究員, 1999-2002.
15. 人工知能学会理事, 1999, 2000.
16. 電子情報通信学会情報システムソサイエティ技術幹事, 1995, 1996.

#### MEMBERSHIPS

1. The Institute of Electronics, Information and Communication Engineers (IEICE) Fellow from 2008.
2. The Institute of Electrical and Electronics Engineers, Inc. (IEEE) Fellow from 2002.
3. The Information Processing Society of Japan (IPSJ) Fellow from 2005.
4. The Association for Computing Machinery (ACM).

5. The Japanese Society of Artificial Intelligence (JSAI).
6. The American Association for Artificial Intelligence (AAAI).
7. Japan Society for Software Science and Technology (JSSST).
8. The Japan Association for Social Informatics (JASI)

## AWARDS

1. 2017, 平成 28 年度電子情報通信学会功績賞
2. 2014, Distinguished Professor of Science, Hong Kong Baptist University.
3. 2013, 平成 24 年度電子情報通信学会業績賞.  
石田 亨, 村上陽平, 林 冬恵. インターネット上の多言語サービス基盤「言語グリッド」の研究開発.
4. 2012, 人工知能学会業績賞.
5. 2010, PRIMA Distinguished Service Award.
6. 2010, ACM Recognition of Service Award.
7. 2008, 電子情報通信学会フェロー. デジタルシティの実証的研究への貢献.
8. 2006, 文部科学大臣表彰科学技術賞研究部門. 石田 亨, 中西英之. デジタルシティにおける仮想都市空間構成法の研究.  
The Commendation for Science and Technology by the Minister of Education, Culture, Sports, Science and Technology
9. 2005, 第 20 回電気通信普及財団賞テレコムシステム技術賞.  
Toru Ishida. *Q: A Scenario Description Language for Interactive Agents*. *IEEE Computer*, Vol. 35, No. 11, pp. 54-59, 2002.  
Hideyuki Nakanishi, Satoshi Koizumi, Toru Ishida and Hideaki Ito. Transcendent Communication: Location-Based Guidance for Large-Scale Public Spaces. *International Conference on Human Factors in Computing Systems (CHI-04)*, pp. 655-662, 2004.
10. 2005, 情報処理学会フェロー. 自律エージェントとマルチエージェントシステム研究に対する貢献.
11. 2002, SI2002 ベストセッション賞  
石田 亨, 中西英之, 村上陽平, 河添智幸, 菱山玲子, 高田司郎. 都市における危機管理のためのマルチエージェントシミュレーション. SICE システムインテグレーション部門講演会 (SI2002), 1P21-04, 2002.
12. 2002, IEEE Fellow. For Contributions to Autonomous Agents and Multiagent Systems.
13. 1996, 人工知能学会 10 周年記念論文賞  
石田 亨, 新保 仁. 実時間探索による経路学習. 人工知能学会誌, Vol. 11, No. 2, pp. 411-419, 1996.

14. 1992, 人工知能学会論文賞  
石田 亨, Les Gasser, 横尾真. エージェントの組織による実時間連続問題解決. 人工知能学会誌, Vol. 7, No. 2, pp. 300-308, 1992.
15. 1992, 日本電信電話株式会社研究開発賞  
石田 亨, 他 3 名. 個別学習者適合型知的 CAI システム(CAIRNEY)の実用化.
16. 1991, 人工知能学会全国大会優秀論文賞  
石田 亨, 佐々木 裕, 福原美三. 手続き型プログラミング言語を用いたプロダクションシステムの制御. 第 5 回人工知能学会全国大会, pp. 415-418, 1991.
17. 1987, 人工知能学会全国大会優秀論文賞  
石田 亨. ファクト管理を強化したプロダクションシステムとその応用. 第 1 回人工知能学会全国大会, pp. 115-118, 1987.
18. 1985, 日本電信電話公社研究開発本部長表彰論文賞  
花田収悦, 永瀬淳夫, 安原隆一, 石田 亨. データフロー解析によるオペレーション実行系列の検証. 電子情報通信学会論文誌, Vol. J64-D, No. 12, pp. 1137-1144, 1981.

#### **AWARDS to SUPERVISED RESEARCH**

1. 2016, Nepal Bidhya Bhusan Padak 'A'.  
Amit Pariyar, *Supporting Consistencies in Multi-Language Knowledge Sharing*. September, PhD Thesis, 2015.
2. 2016, International Conference on Collaboration Technologies (CollabTech) Best Paper Award. (共同受賞)  
Xun Cao, Naomi Yamashita and Toru Ishida. How Non-Native Speakers Perceive Listening Comprehension Problems: Implications for Adaptive Support Technologies.
3. 2015, 12th IEEE International Conference on Services Computing (SCC) Best Paper Award. (共同受賞)  
Mai Xuan Trang, Yohei Murakami, Toru Ishida. Policy-Aware Optimization of Parallel Execution of Composite Services.
4. 2013, 情報処理学会全国大会 学生奨励賞  
Mairidan Wushouer, Toru Ishida<sup>1</sup>, Katsutoshi Hirayama, Donghui Lin. Inducing Bilingual Lexicon Using Pivot Language.
5. 2011, 情報処理学会長尾真記念特別賞  
山下直美
6. 2010.05, Autonomous Agents and Multi Agent Systems Influential Paper Award. (共同受賞)  
Makoto Yokoo, Edmund H. Durfee, Toru Ishida, and Kazuhiro Kuwabara. The Distributed Constraint Satisfaction Problem: Formalization and Algorithms. *IEEE Transactions on*



*Knowledge and Data Engineering*, Vol. 10, pp. 673-685, 1998.

7. 2009.12, 日本社会情報学会学位論文賞 (博士論文・奨励賞) .  
Heeryon Cho. Analysis of Cultural Differences in Pictogram Interpretations.
8. 2009.12, Best Multimedia Paper Award. (共同受賞)  
Shohei Yamane, Shoichi Sawada, Hiromitsu Hattori, Marika Odagaki, Kengo Nakajima, and Toru Ishida. Participatory Simulation Environment gumonji/Q: A Network Game Empowered by Agents. *International Conference on Principles of Practice in Multi-Agent Systems (PRIMA-09), Lecture Notes in Artificial Intelligence*, 5925, Springer-Verlag, 2009.
9. 2009.09, FIT 論文賞. (共同受賞)  
石松昌展, 田仲正弘, 石田 亨. 表形式の言語資源からのメタデータ抽出, 2009.
10. 2009.06, Gold Prize (1st place) in "Microsoft Cup" IEEE China Student Paper Contest.  
Yue Suo, Naoki Miyata, Hiroki Morikawa, Toru Ishida and Yuanchun Shi. Open Smart Classroom: Extensible and Scalable Learning System in Smart Space using Web Service Technology. *IEEE Transactions on Knowledge and Data Engineering*, Vol.21, No.6, pp. 814-828, 2009.
11. 2008, 人工知能学会全国大会優秀賞  
田仲理恵, 石田 亨, 村上陽平. 文脈情報を用いた機械翻訳サービスの連携. 第22回人工知能学会全国大会, 2A2-01, 2008.
12. 2008, 電気通信普及財団賞 テレコムシステム技術学生賞  
Yuu Nakajima, Hironori Shiina, Shohei Yamane, Hirofumi Yamaki and Toru Ishida. Disaster Evacuation Guide: Using a Massively Multiagent Server and GPS Mobile Phones. *IEEE/IPSJ Symposium on Applications and the Internet (SAINT-07)*, 2, 2007.
13. 2007, 情報処理学会第 69 回全国大会 大会奨励賞  
境 智史, 村上陽平, 石田 亨. 領域オントロジを用いた言語グリッドの Web サービス連携. 情報処理学会全国大会, 2007.
14. 2006, JAWS 最優秀論文賞. (共同受賞)  
宮田直輝, 石田 亨. コミュニティに基づく大規模エージェント配置手法の評価. 合同エージェントワークショップ&シンポジウム (JAWS-06), 2006.
15. 2006, JAWS 学生奨励賞.  
宮田直輝, 石田 亨. コミュニティに基づく大規模エージェント配置手法の評価. 合同エージェントワークショップ&シンポジウム (JAWS-06), 2006.
16. 2006, JAWS 学生奨励賞.  
CHO Heeryon, 稲葉利江子, 石田 亨, 高崎俊之, 森由美子. 絵文字コミュニケーションにおけるセマンティクス. 合同エージェントワークショップ&シンポジウム (JAWS-06), 2006.
17. 2006, JAWS 学生奨励賞.  
山口智治, 石田 亨. ユーザの体験強化を図るストーリー型情報提供エージェント. 合同エージェントワークショップ&シンポジウム (JAWS-06), 2006.

18. 2006, Best Paper Award. (共同受賞)  
Yichuan Jiang, Toru Ishida. Concurrent Agent Social Strategy Diffusion with the Unification Trend. *Pacific Rim International Workshop on Multi-Agents (PRIMA-06)*, Lecture Notes in Artificial Intelligence, 4088, Springer-Verlag, pp. 256 - 268, 2006.
19. 2005, FIT ヤングリサーチャー賞.  
山下直美, 石田 亨. 機械翻訳を用いた対話における思い違いの定量化手法の提案. 情報科学技術フォーラム FIT, LK-006, 2005.
20. 2005, 人工知能学会研究会優秀賞.  
神田智子. 異文化コラボレーションにおける感情サポートキャラクターの効用, SIG-KBS-A402-B1, 2004.
21. 2004, Pacific Rim International Workshop on Multi-Agents (PRIMA) Runner Up Paper Prize (共同受賞)  
Reiko Hishiyama and Toru Ishida. Modeling e-Procurement as Co-adaptive Matchmaking with Mutual Relevance Feedback. *Pacific Rim International Workshop on Multi-Agents (PRIMA 2002)*, Lecture Notes in Artificial Intelligence, Springer-Verlag, 2004.
22. 2004, 人工知能学会全国大会優秀賞  
鳥居大祐, 石田 亨.  $Q$  と CORMAS の結合 : 多層マルチエージェントシミュレーションへの挑戦. 第 18 回人工知能学会全国大会, 2H1-01, 2004.
23. 2004, 人工知能学会全国大会優秀賞  
中西英之, 小泉智史, 石田 亨, 伊藤英明. 超越型誘導のための仮想都市シミュレータ. 第 18 回人工知能学会全国大会, 2G2-01, 2004.
24. 2003, 情報処理学会坂井記念特別賞  
中西英之
25. 2003, Runner-up of Best Paper Award (共同受賞)  
Hideyuki Nakanishi, Satoshi Nakazawa, Toru Ishida, Katsuya Takanashi and Katherine Isbister. Can Software Agents Influence Human Relations? Balance Theory in Agent-mediated Communities. *International Joint Conference on Autonomous Agents and Multiagent Systems (AAMAS-03)*, 2003.
26. 2002, Pacific Rim International Workshop on Multi-Agents (PRIMA) Runner Up Paper Prize(共同受賞)  
Zhiqiang Gao, Tomoyuki Kawasoe, Akishige Yamamoto and Toru Ishida. Meta-Level Architecture for Executing Multi-agent Scenarios. *Pacific Rim International Workshop on Multi-Agents (PRIMA 2002)*, Lecture Notes in Artificial Intelligence, 2413, Springer-Verlag, pp. 163-177, 2002.
27. 2002, 野口賞 (優秀デモンストレーション賞) (共同受賞)  
伊藤英明, 中西英之, 石田 亨. 仮想都市空間シミュレータ FreeWalk/Q, 情報処理学会, マ

- ルチメディア, 分散, 協調とモバイルシンポジウム (DICOM02002), DEMO11, 2002.
28. 2002, 人工知能学会全国大会優秀論文賞 (共同受賞)  
南 一久, 村上陽平, 河添智幸, 石田 亨. マルチエージェントシステムによる避難シミュレーション. 第 16 回人工知能学会全国大会, 2002.
  29. 2001, 第 2 回 AI 若手の集い MYCOM2001 ベストプレゼンテーション賞  
三浦輝久. 遺伝子配列解析問題のための探索アルゴリズム, 2001.
  30. 2000, 情報処理学会インタラクシオン 2000 研究奨励賞 (共同受賞)  
中西英之, Katherine Isbister, 石田 亨, Clifford Nass. 仮想空間でのコミュニケーションを補助するヘルパーエージェントの設計. 情報処理学会インタラクシオン 2000, pp. 107-114, 2000.
  31. 2000, 人工知能学会全国大会優秀論文賞 (共同受賞)  
吉住貴幸, 三浦 輝久, 石田 亨. ゲノム整列問題への段階的節点展開方式の適用. 第 14 回人工知能学会全国大会, pp. 89-92, 2000.
  32. 1999, 日本ロボット学会論文賞 (共同受賞)  
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