



## Curriculum Vitae Shu-Heng Chen

[\[Address\]](#) [\[Education\]](#) [\[Employment\]](#) [\[Edited Books and Volumes\]](#) [\[Referred Journal Articles\]](#)  
[\[Journal Articles under Review\]](#) [\[Referred Chapters in Books\]](#) [\[Referred Papers in Proceedings\]](#)  
[\[Invited Lectures and Plenary Speech\]](#) [\[Tutorial\]](#) [\[Conference Papers\]](#) [\[Others\]](#) [\[Academic Services\]](#)

### Address [Top](#)

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### Education [Top](#)

- Ph.D. Department of Economics, University of California, Los Angeles, 1992
- M.A., Department of Mathematics, University of California, Los Angeles, 1991
- M.A., Department of Economics, National Taiwan University, 1985
- B.A., Department of Economics, National Chengchi University, 1981

### Employment [Top](#)

- 2022-present, Vice President, National Chengchi University
- 2017-present, Editor, Computational Economics, Springer
- 2016-present, Associate Editor, Journal of Behavioral Economics for Policy
- 2015-present, Regional Editor Asia and Oceania, International Journal of Financial Engineering and Risk Management, Inderscience Publishers.
- 2013-present, Editorial Board Member of the Book Series on Physics of Society: Econophysics and Sociophysics, Oxford University Press.
- 2012-present, Editor of the Book Series on Computational and Quantitative Social Science, Wiley.
- 2012-present, Editor, *Economia Politica*, Journal of Analytical and Institutional Economics.
- 2011-present, Scientific Committee of School of Social Sciences, University of Trento, Italy.
- 2011-present, Editors-in-Chief, Journal of Economic Interaction and Coordination, Springer
- 2011-present, Advisory Board, University of Sheffield Management School Advisory Board, University of Sheffield, UK.
- 2008-present, Distinguished Professor, Department of Economics, National Chengchi University
- 2008-present, Organizer, Experimental Economics Lab, National Chengchi University
- 2004-present: Full Professor, Center for the Study of Banking and Finance, National Taiwan University
- 2004-present: Editors-in-Chief, *New Mathematics and Natural Computing* (World Scientific)
- 2000-present: Director, AI-Econ Research Center, National Chengchi University
- 2016-2018, Vice President, National Chengchi University.
- 2013-2015, Editor, International Journal of Financial Engineering and Risk Management, Inderscience Publishers.
- 2012-2014, Advisory Committee, Center for Research in Econometric Theory and Applications, National Taiwan University
- 2011-2014, Advisory Board Member, Society for Computational Economics.
- 2011-2012, Chair of the IEEE Computational Finance and Economics Technical Committee (IEEE's Computational Intelligence Society (CIS))

- 2011, May-June, Visiting Professor, Faculty of Economics, University of Trento, Italy
- 2009, Oct –Nov, *Lectio Magistralis* Visiting Professor, Faculty of Economics, University of Trento, Italy.
- 2009, July 10 -20, Visiting Professor, Faculty of Business, University of Technology at Sydney.
- 2008-2014, Dean of Office of International Cooperation, National Chengchi University
- 2007- 2010, Vice Chair of the IEEE Computational Finance and Economics Technical Committee (IEEE's Computational Intelligence Society (CIS))
- 2006-2010, Editor, Journal of Economic Interaction and Coordination (Springer)
- 2006-2008, Director, Center of International Education and Exchange, National Chengchi University
- 2005-2006: Adjunct Professor, Department of Finance, National Taiwan University
- 2004-2014: Associate Editor, Journal of Economic Behavior and Organization
- 2004-2008, International Journal of Innovational Computing & Information Control
- 2003-2004: Associate Editor, IEEE Transactions on Evolutionary Computation
- 2000-2008: Full Professor, Department of Economics, National Chengchi University
- 2000-2003: Adjunct Professor, Department of Economics, National Central University
- 1997, July 19-29: Consultant of the Department of Finance and Decision Sciences (FDS), School of Business, Hong Kong Baptist University
- 1996-1997: Visiting Professor, Department of Automatic Control Engineering, Huazhong University of Science & Technology, Wuhan, Hubei, P.R. China
- 1995-2000: Adjunct Professor, Department of Economics, National Central University
- 1995-1999: The Editor of Taiwan Journal of Political Economy
- 1992-1999: Associate Professor, Department of Economics, National Chengchi University
- 1991-1992 :Research Assistant of Professor John J. McCall and Professor Kumaraswamy Velupillai, Department of Economics, University of California, Los Angeles
- 1987-1990: Reader, Department of Economics, University of California, Los Angeles
- 1986-1987: Teaching Assistant, Department of Economics, University of California, Los Angeles
- 1986-1987: Research Assistant of Professor Edward Leamer, Department of Economics, University of California, Los Angeles
- 1984-1985: Research Assistant of Professor Gi-Li, Yen, Chung-Hua Institution for Economic Research

## Awards and Grants

- 2014 Fulbright Senior Scholar, New School for Social Research, New York.
- 2014 NordSud International Prize, Fundation Pescarabruzzo, 2014.
- NCCU Distinguished Research Excellence Award: 2009, 2010, 2011
- NCCU Excellent Research Award: 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2012, 2013, 2014, 2015.
- NCCU College of Social Sciences Excellent Research Award: 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015.
- NCCU Faculty Excellent Service Award: 2006.
- Computer Society of the Republic of China: 1997.
- The Best Researcher of the Year, College of the Social Science, National Chengchi University, 1996.
- Ministry of Science and Technology (MOST) Grant: Project Title “Consilience and Ontological Turn: Agent-Based Computational Economics in the History and Philosophy of Science”, MOST 108-2410-H-004 -016 -MY2, 2019-2021.
- Ministry of Science and Technology (MOST) Grant: Project Title “Big Data and Economic Behavior: An Integrating Framework Using Agent-Based Computational Economic Modeling”, MOST 106-2410-H-004 -006-MY2, 2017-2019
- Ministry of Science and Technology (MOST) Grant: Project Title “Intensity of Choice: Its Behavioral and Neural Foundation, Heterogeneity and Context-Dependence”, MOST 106-2420-H-004 -011-MY2, 2017-2019.
- Ministry of Science and Technology (MOST) Grant: Project Title “Complex Product Competition: A Simonian-Schumpeterian”, MOST-DAAD 105-2911-I- 004-504-MY2, 2016-2018.
- Ministry of Science and Technology (MOST) Grant: Project Title “Behavioral and Evolutionary Macroeconomics with Social-Network Embeddedness: Toward an Agent-Based Macroeconomic Laboratory”, MOST 103-2410-H-004-009-MY3, 2014-2017.
- National Science Council Grant: Project Title “The Complexity of a Good Society: On the Study of Its Five Elements Using Agent-Based Models and Human-Subject Experiments”, NSC 101-2410-H-004 -010 -MY2, 2012 – 2014.
- Taiwan Stock Exchange (TSE) Commissioned Research Project, “The Simulation and the Analysis of the Impacts of the Opening Market Transparency,” 2012.
- Taiwan Stock Exchange (TSE) Commissioned Research Project, “The Analysis of the Impacts of the Closing Market Transparency,” 2012.

- National Science Council Grant (Type A): 1994, 1995, 1996, 1997, 1998, 1999, 2001, 2002, 2003, 2004, 2005, & 2006.
- National Science Council Grant: Project Title “The International Influence Enhancement Pilot Project: From Agent-Based Computational Economics to Computational Social Science”, NSC 98-2911-I-004 -007, 2009-2012.
- National Science Council Grant: Project Title “Emergent Complexity of Cognitive, Psychological and Cultural Factors: An Integrated Framework of Agent-Based Computational Economics, Experimental Economics and Neuroeconomics”, NSC 98-2410-H-004-045-MY3, 2009 – 2012.
- National Science Council Grant: Project Title “The FP-7 Cook Project: The Human Factors of Emergent Social Intelligence: Empirical Evidence Based on Experimental Markets and Games”, NSC 97-2915-I-004 -001, 2008-2009.
- National Science Council Grant: Project Title “From Agent Engineering to Market Design: An Integrated Platform Based on an Agent-Based Simulation Framework”, NSC 95-2415-H-004-002-MY3, 2006 – 2009.
- National Science Council Grant on Project “Bounded Rationality and the Elasticity Puzzle: What Can We Learn from the Agent-Based Computational Capital Asset Pricing Model?”, NSC94-2415-H-004-003, 2005.
- National Science Council Grant on Project “Lottery Markets-Design, Micro-Structure, and Macro-Behavior: An ACE Approach”, NSC93-2415-H-004-005, 2004.
- National Science Council Grant on Project “Computational Intelligence in Economics and Finance: A Proposal to Promote Its Research Opportunities to Taiwan Academy”, NSC93-2420-H-004-003, 2004.
- National Science Council Grant on Project “Reading Guide to The Science of the Artificial by Herbert Simon”, NSC 92-2420-H-004-006, 2003.
- National Science Council Grant on Project “A functional-Modularity Approach to the Agent-based Computational Economic Modeling of Innovation”, NSC 92-2415-H-004-005, 2003.
- National Science Council Grant on Project “Simulating the Evolution of Portfolio Behavior in a Multiple-Asset Agent-Based Artificial Stock Market”, NSC 91-2415-H-004-005, 2002.
- National Science Council Grant on Project “Self-Organizing Maps as a Foundation for Charting or Geometric Pattern Recognition in Financial Time Series”, NSC 90-2415-H-004-018, 2001.
- National Science Council Grant on Project “Evolving Traders and the Business School with Genetic Programming: A New Architecture of the Agent-Based Artificial Stock Market”, NSC 89-2415-H004-008, 1999.
- National Science Council Grant on Project “Taiwan-German Joint Research Collaboration Program: Multi-Agent Simulation of Artificial Financial Market”, NSC87-I-2911-15, January-December, 1999.
- National Science Council Grant on Project “Simulating and Analyzing Financial Time Series with GP-Based Artificial Financial Markets”, NSC 88-2415-H-004-008, August 1998 - July 1999.
- National Science Council Grant on Project “Taiwan-German Joint Research Collaboration Program, NSC87-I-2911-15, January-December, 1998.
- National Science Council Grant on Project “Genetic Programming and Evolutionary Artificial Neural Nets in Financial Engineering”, NSC872415H004011, 1997.
- National Science Council Grant on Project “Evolutionary Computation in Computable General Equilibrium: An Integration of Genetic Algorithms, Genetic Programming and Artificial Neural Networks”, NSC862415H004022, 1996.
- National Science Council Grant on Project “Genetic Programming in Econometrics: An Initial Exploration”, NSC852415H004001, 1995.
- National Science Council Grant on Project “Genetic Programming and Bounded Rationality in Macroeconomics”, NSC842415H004001, 1994.
- National Science Council Grant on Project “ Cellular Automata in Macroeconomic Modeling”, NSC830301H004002, 1993.
- Non-Citizen Tuition Waiver, UCLA, 1986–1989.
- Ministry-of-Education Scholarship, Taiwan, 1985–1987.
- Advanced Public Officer Examination. Passed as an Economic Analyst, 1981.

## PUBLICATIONS: Authored Books

1. *Agent Based Modelling and Network Dynamics* (with Akira Namatame). Oxford University Press, 2016.
2. *Agent-Based Computational Economics: How the Idea Originated and Where It Is Going*. Routledge, 2015.

## PUBLICATIONS: Edited Books and Volumes [Top](#)

1. *Mathematics in Economics: Foundations, Philosophy and Epistemology* (with Kumaraswamy Velupillai), World Scientific.

2. Decision Economics: Minds, Machines, and their Society, (with Edgardo Bucciarelli, Juan M. Corchado, and Javier Parra D.), Springer, Cham. 2021.
3. Guest editor (with Simone Alfarano and Dehua Shen), Complexity, a special issue on **Tales of Two Societies: On the Complexity of the Coevolution between the Physical Space and the Cyber Space**, 2020. [\[SCIE\]](#)
4. Decision Economics: Complexity of Decisions and Decisions for Complexity, (with Edgardo Bucciarelli and Juan M. Corchado), Springer, Cham. 2020
5. *Complex Systems Modeling and Simulation in Economics and Finance*, (with Ying-Fang Kao, Ragupathy Venkatachalam, and Ye-Rong Du) Springer. 2018.
6. *Big Data in Computational Social Science and Humanities*, Springer. 2018.
7. *Decision Economics - Designs, Models, and Techniques for Boundedly Rational Decisions*, (with Edgardo Bucciarelli and Juan M. Corchado), Springer. 2018.
8. *The Oxford Handbook of Computational Economics and Finance*, (with Mak Kaboudan and Ye-Rong Du), Oxford University Press, 2018.
9. *Decision Economics, in the Tradition of Herbert A. Simon's Heritage* (with Edgardo Bucciarelli and Juan M. Corchado), Springer, 2017
10. *Routledge Handbook of Behavioral Economics* (with Roger Frantz, Kurt Dopfer, Floris Heukelom, Shabnam Mousavi), Routledge. 2016.
11. *Advances in Computational Social Science: The Fourth World Congress, Agent-Based Social Systems*, Volume 11, (with Takao Terano, Ryuichi Yamamoto, and Chung-Ching Tai), Springer, 2014.
12. Guest editor (with Dash Wu and David Olson), *Information Sciences*, a special issue on **Business Intelligence in Risk Management**, 256. 2014. [\[SCI\]](#)
13. Guest editor (with Sai-Ping Lee), **International Review of Financial Analysis**, a special issue on *Complexity and Non-Linearities in Financial Markets: Perspectives from Econophysics*, Vol 23, 2012. [\[EconLit, FLI\]](#)
14. *Agent-Based Approaches in Economic and Social Complex Systems VI, Agent-Based Social Systems*, Volume 8, (with Takao Terano, Ryuichi Yamamoto), Springer, 2011.
15. *Multi-Agent Applications with Evolutionary Computation and Biologically Inspired Technologies: Intelligent Techniques for Ubiquity and Optimization* (with Yasushi Kambayashi and Hiroshi Sato), IGI Global, Hershey PA, USA, 2011.
16. Guest editor (with Bob McKay and Xuan Hoai Nguyen), **International Journal on Knowledge Based Intelligent Engineering Systems**, a special issue on Genetic Programming, 12(1), 2008.
17. *Computational Intelligence in Economics and Finance: Volume II*, (with P. P. Wang and Tzu-Wen Kuo), Springer-Verlag, 2007.
18. *Simulated Evolution and Learning*, (with Tzai-Der Wang, Xiaodong Li, Xufa Wang, Hussein Abbass, Hitoshi Iba, Guoliang Chen, Xin Yao), **Lecture Notes in Computer Science**, ( LNCS 4247), Springer. 2006. [\[SCIE\]](#)
19. *Computational Economics: A Perspective from Computational Intelligence*, (with Lakhmi Jain and Chung-Ching Tai), **Computational Intelligence and its Application Series**, (series editors: Lakhmi Jain and Colin Fyfe), Idea Group Publishing, 2005.
20. *Applications of Artificial Intelligence in Finance and Economics*. (with Jane Binner and Graham Kendall), Elsevier, 2004. [\[SSCI\]](#)
21. *Multi-Agent for Mass User Support*, (with Koichi Kurumatani and Azuma Ohuchi), **Lecture Notes in Artificial Intelligence, Springer**, 2004.
22. *Computational Intelligence in Economics and Finance*, (with P. Wang), **Series on Advanced Information Processing** (series editor: L. Jain), Springer-Verlag, 2002. [\[SCIE\]](#)
23. *Genetic Algorithms and Genetic Programming in Computational Finance*, Kluwer. 2002.
24. *Evolutionary Computation in Economics and Finance*, **Series on Studies in Fuzziness and Soft Computing**, Vol.

## PUBLICATIONS: Referred Journal Articles [Top](#)

1. "The competitions of time-varying and constant loadings in asset pricing models: empirical evidence and agent-based simulations," (Hung-Wen Lin,, Jing-Bo Huang, and Kun-Ben Lin), *Journal of Economic Interaction and Coordination*, 17(2): 577-612. 2022. [SSCI] <https://doi.org/10.1007/s11403-021-00337-2>
2. "Financial transparency, media coverage, and momentum in China," (with Xia-Ping Cao, Kun-Ben Lin, Jing-Bo Huang, Yubing Zhang, & Hung-Wen Lin), *Emerging Markets Finance and Trade*, 58(3): 625-637. 2022. [SSCI] <https://doi.org/10.1080/1540496X.2020.1825936>
3. "The Mechanisms of Trust Formation under Different Conditions of Political Identity: An Experiment among Taiwanese Voters." (with Tien-Tun Yang, Ray-May Hsung, Yeh-Rong Du, Yi-Jr Lin, Nai-Shing Yen, Chien-Te Wu, and Ho-Ling Liu, H. L. *Current Sociology*, 69(6), 879-899. 2021. [SSCI] <https://doi.org/10.1177/00113921211001081>
4. "The Competitions of Time-Varying and Constant Loadings in Asset Pricing Models: Empirical Evidence and Agent-Based Simulations," (with Hung-Wen Lin, Jing-Bo Huang, and Kun-Ben Lin), *Journal of Economic Interaction and Coordination*, 577-612. 2021. [SSCI] <https://doi.org/10.1007/s11403-021-00337-2>
5. "Narrative Economics using Textual Analysis of Newspaper Data: New insights into the US Silver Purchase Act and Chinese Price Level in 1928–1936," (with Ching Hsu and Tina Yu), *Journal of Computational Social Science*, 1-25. 4(2): 761-785. 2021. <https://doi.org/10.1007/s42001-021-00104-0>
6. "Timely Loss Recognition Helps Nothing," (with Hung-Wen Lin, Kun-Ben Lin, and Jing-Bo Huang), *Sustainability*, 13(14), 7815. [SSCI] <https://doi.org/10.3390/su13147815>
7. "Realizable Utility Maximization as a Mechanism for the Stability of Competitive General Equilibrium in a Scarf Economy," (with Tungku Yu), *Computational Economics*, Computational Economics 58:133–167. 2021. [SSCI] <https://doi.org/10.1007/s10614-020-09989-x>
8. "Big Data, Scarce Attention and Decision-Making Quality," (with Tongku Yu), *Computational Economics*, 57:827-856. 2021. [SSCI] <https://doi.org/10.1007/s10614-018-9798-5>
9. "On the Ontological Turn in Economics: The Promises of Agent-Based Computational Economics," *Philosophy of the Social Sciences*, 50(3), 238-259. 2020. [SSCI] <https://doi.org/10.1177/0048393120917641>
10. "Which is the better fourth factor in China? Reversal or turnover?" (with Hung-Wen Lin, Jing-Bo Huang, Kun-Ben Lin, and Joyce Zhang), *Pacific-Basin Finance Journal*, 101347, 2020. [SSCI] <https://doi.org/10.1016/j.pacfin.2020.101347>
11. "Agent-Based Modeling of a Non-tâtonnement Process for the Scarf Economy: The Role of Learning," (with Bin-Tzong Chie, Ying-Fang Kao, and Ragupathy Venkatachalam), *Computational Economics*, 54(1), 305-341. 2019. [SSCI] <https://doi.org/10.1007/s10614-017-9721-5>
12. "On the Connection between Agent-based Simulation and Methodological Individualism," (with Francesco Di Iorio), *Social Science Information*, 58(2), 354-376. 2019. [SSCI] <https://doi.org/10.1177/0539018419852526>
13. "A heterogeneous artificial stock market model can benefit people against another financial crisis," (with Haijun Yang). *PLoS ONE* 13(6): e0197935, 2018. [SCIE] <https://doi.org/10.1371/journal.pone.0197935>
14. "How Do Acquired Political Identities Influence Our Neural Processing toward Others within the Context of a Trust Game?" (with Chien-Te Wu, Yang-Teng Fan, Yeh-Rong Du, Tien-Tun Yang, Ho-Ling Liu, Nai-Shing Yen, and Ray-May Hsung) *Frontiers in Human Neuroscience*, 12, 23, 2018. [SCIE] <https://doi.org/10.3389/fnhum.2018.00023>
15. "Cognitive Ability and Earnings Performance: Evidence from Double Auction Market Experiments," (with Chung-Ching Tai and Lee-Xieng Yang), *Journal of Economic Dynamics and Control*, 91: 409-440. 2018. [SSCI] <https://doi.org/10.1016/j.jedc.2017.12.008>

16. "Agent-based Modelling as a Foundation for Big Data," (with Ragupathy Venkatachalam), *Journal of Economic Methodology*, 24(4): 362-383. 2017. **[SSCI]** <https://doi.org/10.1080/1350178X.2017.1388964>
17. "Heterogeneity in Generalized Reinforcement Learning and Its Relation to Cognitive Ability," (with Ye-Rong Du), *Cognitive Systems Research*, 42:1-22. 2017 **[SSCI]** <https://doi.org/10.1016/j.cogsys.2016.11.001>
18. "Transitional Student Admission Mechanism from Tracking to Mixing: An Agent-Based Policy Analysis," (with Connie Houning Wang and Bin-Tzong Chie), *Evolutionary and Institutional Economic Review*, 41(1): 253-293. 2017. **[EconLit, Scopus]**
19. "Information Aggregation and Computational Intelligence: Limits to Price Discovery," (with Ragupathy Venkatachalam), *Evolutionary and Institutional Economic Review*, 41(1): 231-252. 2017. **[EconLit, Scopus]** <https://doi.org/10.1007/s40844-016-0048-z>
20. "Computational and Simulation Paradigms for Evolutionary and Institutional Economics," *Evolutionary and Institutional Economic Review*, 41(1): 225-230. 2017. **[Scopus]**
21. "On the Complexity of the El Farol Bar Game: A Sensitivity Analysis," (with Umberto Gostoli), *Evolutionary Intelligence*, 9(4): 113-123. 2016. **[Scopus]** <https://doi.org/10.1007/s12065-016-0138-1>
22. "Matching Impacts of School Admission Mechanisms: An Agent-Based Approach," (with Connie Houning Wang and Weikai Chen), *Eastern Economic Journal*, 43(2): 217-241. 2017. **[Scopus]** <https://doi.org/10.1057/s41302-016-0073-y>
23. "Coordination in the El Farol Bar Problem: The Role of Social Preferences and Social Networks," (with Umberto Gostoli), *Journal of Economic Interaction and Coordination*, 12(1): 59-93, 2017 **[SSCI]**. <https://doi.org/10.1007/s11403-015-0150-z>
24. "Social Norms, Costly Punishment and the Evolution of Cooperation," (with Tong-Kui Yu and Honggang Li), *Journal of Economic Interaction and Coordination*, 11(2):313-343, 2016 **[SSCI]** <https://doi.org/10.1007/s11403-015-0146-8>
25. "The Optimal Pricing of a Market Maker in a Heterogeneous Agent Economy," (with Bin Guo, Wei Zhang, and Yongjie Zhang), *Finance Research Letters* 14:178–187, 2015 **[SSCI]**. <https://doi.org/10.1016/j.frl.2015.04.001>
26. "Network-Based Trust Games: An Agent-Based Model," (with Bin-Tzong Chie and Tong Zhang), *Journal of Artificial Societies and Social Simulation* 18 (3):5, <http://dx.doi.org/10.18564/jasss.2767> 2015 **[SSCI]**.
27. "Limit Order Book Transparency and Order Aggressiveness at the Closing Call: Lessons from the TWSE 2012 New Information Disclosure Mechanism," (with Yi-Heng Tseng), *Pacific-Basin Finance Journal*, 35(A):241-272, 2015. **[SSCI]** <https://doi.org/10.1016/j.pacfin.2015.01.003>
28. "Don't Get Mad, Get Even: Emotions in Ultimatum Games," (with Chia-Yang Lin), *Interdisciplinary Journal of Economics and Business Law*, 4(2): 36-72. 2015.
29. "The Use of Knowledge in Prediction Markets: How Much of Them Need He Know?" (with Bin-Tzong Chie), *Journal of Information Science and Engineering* 31(1):1-22. 2015 **[SCIE]**
30. "Neuroeconomics and Agent-Based Computational Economics," *International Journal of Applied Behavioral Economics* 3(2): 15-34. 2014. <https://www.igi-global.com/gateway/article/113837>
31. "Competition in a New Industrial Economy: Toward an Agent-Based Economic Model of Modularity," (with Bin-Tzong Chie), *Administrative Sciences* 4(3):192-218. 2014. <https://doi.org/10.3390/admsci4030192>
32. "Social Networks and Macroeconomic Stability," (with Chia-Ling Chang and Ming-Chang Wen), *Economics: The Open-Access, Open-Assessment E-Journal*, Vol. 8, 2014-16. <http://dx.doi.org/10.5018/economics-ejournal.ja>. 2014-16 **[SSCI]** <https://doi.org/10.5018/economics-ejournal.ja.2014-16>
33. "Business Intelligence in Risk Management: Some Recent Progresses," (with Dash Wu and D Olson), *Information Sciences*, 256:1-7. 2014. **[SCI]** <https://doi.org/10.1016/j.ins.2013.10.008>
34. "Social Networks, Social Interaction and Macroeconomic Dynamics: How Much Could Ernst Ising Help DSGE? (with Chia-Ling Chang and Yi-Heng Tzeng), *Research in International Business and Finance* 30: 312-335. 2014. <http://dx.doi.org/10.1016/j.ribaf.2012.08.004> **[FLI]** <http://dx.doi.org/10.1016/j.ribaf.2012.08.004>



35. "Cognitive Capacity and Cognitive Hierarchy: A Study Based on Beauty Contest Experiments," (with Ye-Rong Du and Lee-Xieng Yang), *Journal of Economic Interaction and Coordination*, 9: 69-105. 2014. **[SSCI]**, <https://doi.org/10.1007/s11403-013-0113-1>
36. "Non-Price Competition in a Modular Economy: An Agent-Based Computational Model," (with Bin-Tzong Chie), *Economia Politica: Journal of Analytical and Institutional Economics*, XXX(3): 273-300. 2013. **[SSCI]** <https://www.rivisteweb.it/doi/10.1428/75294>
37. "Interactions in the New Keynesian DSGE models: The Boltzmann-Gibbs machine and social networks approach," (with Chia-Ling Chang), *Economics: The Open-Access, Open-Assessment E-Journal*, 6(2012-26). 2012. Retrieved from <http://dx.doi.org/10.5018/economics-ejournal.ja.2012-26> **[SSCI]**
38. "To Whom and Where the Hill Becomes Difficult to Climb: Effects of Cognitive Capacity and Personality in Experimental DA Markets," (with Umberto Gostoli, Chung-Ching Tai, Kuo-Chuan Shih), *Advances in Behavioral Finance & Economics*, 2(2): 41-75. 2012. <https://p11.secure.hostingprod.com/@aobf.org/ssl/attachments/2012/Chen.pdf>
39. "Microstructure Dynamics and Agent-based Financial Markets: Can Dinosaurs Return?" (with Michael Kampouridis and Edward Tsang), *Advances in Complex Systems*, 15 (supp 2). 2012. doi: 10.1142/S0219525912500609 **[SSCI, SCl]**. <https://doi.org/10.1142/S0219525912500609>
40. "不同公司治理情境之股權評價：類神經模糊專家系統之應用"，(與高惠松，李建然聯合發表)，*管理與系統*, 19( 3): 378-408. 2012. **[TSSCI]** <https://ir.nctu.edu.tw/handle/11536/107869>
41. "Interactions in DSGE Models: The Boltzmann-Gibbs Machine and Social Networks Approach," (with Chia-Ling Chang), *Economics*, 2012-26 **[SSCI]**. <https://www.econstor.eu/bitstream/10419/48578/1/664503799.pdf>
42. "Econophysics: Bridges over a Turbulent Current," (with Sai-Ping Li), *International Review of Financial Analysis*, 23:1-10, 2012. **[EconLit, FLI]** <https://doi.org/10.1016/j.irfa.2011.07.001>
43. "Market Fraction Hypothesis: A Proposed Test," (with Michael Kampouridis and Edward Tsang), *International Review of Financial Analysis*. 23: 41-54, 2012. **[EconLit, FLI]** [https://kampouridis.net/papers/complex\\_09.pdf](https://kampouridis.net/papers/complex_09.pdf)
44. "Liquidity Cost of Market Orders in the Taiwan Stock Market: A Study based on an Order-Driven Agent-Based Artificial Stock Market," (with Yi-Ping Huang, Min-Chin Hung, and Tina Yu), *International Review of Financial Analysis*, 23:72-80, 2012. **[EconLit, FLI]**. <https://doi.org/10.1016/j.irfa.2011.06.013>
45. "Agent-Based Economic Models and Econometrics," (with C.-L Chang, and Y.-R. Du), *Knowledge Engineering Review*, 27(2): 187-219, 2012. **[SCI]** <https://doi.org/10.1017/S0269888912000136>
46. "Varieties of Agents in Agent-Based Computational Economics: A Historical and an Interdisciplinary Perspective," *Journal of Economic Dynamics and Control*, 36(1):1-25, 2012 **[SSCI]**. <https://doi.org/10.1016/j.jedc.2011.09.003>
47. "Do the ASEAN Countries and Taiwan Form a Common Currency Area?" (with Jane Binner, Ke-Hung Lai, James L. Swofford, and Andrew Mullineux), *Journal of International Money and Finance*, 30(7): 1429-1435, 2011 **[SSCI, FLI]**. <https://doi.org/10.1016/j.jimonfin.2011.06.012>
48. "Emergent Complexity in Agent-Based Computational Economics," (with Shu G Wang), *Journal of Economic Surveys*, 25(3): 527-546. 2011. **[SSCI]** <https://doi.org/10.1111/j.1467-6419.2010.00658.x>
49. "Agents Learned, but Do We? Knowledge Discovery Using the Agent-Based Double Auction Markets," (with Tina Yu), *Frontiers of Electrical and Electronic Engineering (FEE) in China*, 6(1): 159-170. 2011 <https://doi.org/10.1007/s11460-011-0132-4>
50. "Reinforcement Learning in Experimental Asset Markets," (with Yi-Lin Hsieh), *Eastern Economic Journal*, 37(1):109 – 133. 2011 **[EconLit]** <https://doi.org/10.1057/eej.2010.57>
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  33. "Evolving Bargaining Strategies with Genetic Programming: An Overview of AIE-DA Ver. 2, Part 2," (with B-T. Chie and C.-C. Tai), in B. Verma, A. Ohuchi (eds.), *Proceedings of Fourth International Conference on Computational Intelligence and Multimedia Applications ( ICCIMA 2001 )*, Yokusika City, Japan, Oct. 30 - Nov. 1, IEEE Computer Society Press, pp. 55-60.
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  41. "Towards an Agent-Based Foundation of Financial Econometrics: An Approach Based on Genetic-Programming Artificial Markets," (with T.-W. Kuo) In Banzhaf, W., Daida, J., Eiben, A. E., Garzon, M. H., Honavar, V., Jakiela, M., & Smith, R. E. (eds.). *GECCO-99: Proceedings of the Genetic and Evolutionary Computation Conference*, July 13-17, 1999, Orlando, Florida USA. San Francisco, CA: Morgan Kaufmann. Vol. 2. (ISBN:1-55860-611-4) pp.966-973.
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  72. "Estimating the Effective Tax Functions with Genetic Algorithms," (with W.-C. Lee), in P. P. Wang (ed.), *Proceedings of Joint Conference of Information Sciences, Vol. 1: Fuzzy Logic, Intelligent Control and Genetic Algorithm, FEA'97*, Research Triangle Park, North Carolina, U.S.A. March 1-5, 1997 (ISBN: 09643456-4-1). pp. 81-84.
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76. "Understanding the Nature of Predatory Pricing in the Large- Scale Market Economy with Genetic Algorithms," (with C.-C. Ni), in *Proceedings of the 1996 IEEE International Symposium on Intelligent Control (ISIC'96)*, IEEE Control System Society, Dearbon, Michigan, U.S.A., September 15-18, 1996. IEEE Press (ISBN:0-7803-2978-3). pp.354-359.
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78. "A Comparison of Forecast Accuracy between Genetic Programming and Other Forecastors: A Loss Differential Approach," (with C.-H Yeh), in D. Borrajo and P. Isasi (eds.), *Proceedings of the First International Workshop on Machine Learning, Forecasting, and Optimization (MALFO96)*, Madrid, Spain, July 10-12, 1996, Universidad Carlos III de Madrid Press (ISBN:84-89315-04-3), pp. 39-52.
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81. "Bridging the Gap between Nonlinearity Tests and the Efficient Market Hypothesis by Genetic Programming", (with C. Yeh), in *Proceedings of the IEEE/IAFE 1996 Conference on Computational Intelligence for Financial Engineering*, IEEE Press (ISBN: 0-7803-3236-9), Crowne Plaza Manhattan, New York City, March 24-26, 1996, pp.34-39.
82. "Genetic Programming in Computable Financial Economics", (with C. Yeh), in *Proceedings of the ISCA 11th Conference: Computers and Their Applications*, ISCA Press (ISBN: 1-880843- 15-3), San Francisco, California, U.S.A., March 7-9, 1996, pp.135- 138.
83. "Genetic Programming in the Coordination Game with a Chaotic Best-Response Function", (with J. Duffy and C. Yeh), in P. Angelino, T. Back, and D. Fogel (eds.) *Evolutionary Programming: Preceeding of the Fifth Annual Conference on Evolutionary Programming*, MIT Press, Cambridge, MA, 1996. pp. 277-286.
84. "Can GA-based Technical Trading Rules Survive Well during the 1990-91 World-Wide Recession? Evaluation Based on the Crash of TAIEX and NIKKEI", (with C. Chen), in H. C. Steele and O. Yau (eds.) *Proceedings of International Conference on "Global Business in Transition: Prospects for the Twenty First Century"*, Vol. II, Center for International Business Studies (CIBS), Lingnan College, Hong Kong, Dec. 14-16, 1995. pp.591-598.
85. "自我實現預期、貝氏學習與經濟謊言：細胞互動模型的模擬分析", (與程永夏), 1994 臺灣經濟學會年會論文集, 1995, pp. 123-150.
86. "Uncertainty and PDP Market Efficiency: Strong and Weak Rationality in Double Auction Experimental Markets", (with J. Kuo and C. Lin), in H. Steele and N. S. Antonio (eds.) *First South China International Business Symposium on "Planning Developing Markets and Information Technology Support: Managing Business in the 1990's"*, Proceedings and Papers, Vol.1, Centre for International Business Studies, Lingnan College, 1994. pp.9-13.



## Invited Plenary and Keynote Speech [Top](#)

1. "Digital Humanities and Digital Economy," *Artificial Intelligence for Shared Context*, AAAI, 2019 Spring Symposia, Stanford University, March 25-27, 2019
2. "Would Internet of Everything Make Economics More Neo-Classical or More Behavioral? Richard Thaler's Prediction, A Revisit," *Artificial Intelligence for the Internet of Everything*, AAAI, 2018 Spring Symposia, Stanford University, March 27-29, 2018.
3. "Artificial Intelligence and Economics: Finding Ourselves in History," *The 13th Artificial Economics Conference (AE'2017)*, Tianjin University, Tianjin, China, September 23-24, 2017.
4. "The Use of Knowledge in the Digital Society: Hayek (1945), 70 Years On" *Computational Context Symposium: Why It's Important, What It Means, and Can It Be Computed?* AAAI, 2017 Spring Symposia, Stanford University, March 27-29, 2017.
5. "Agent-Based Modeling as a Foundation of Big Data," *20th Annual Meeting of the Japan Association for Evolutionary Economics* (JAFEE'2016), University of Tokyo, Tokyo, Japan, March 26-27, 2016.
6. "Agent-Based Modeling as a Foundation of Big Data," *2015 Symposium on Agent-Based Computational Economics and Big Data*, National Supercomputing Center, Sun Yat-Sen University, Guangzhou, China, December 5-7, 2015.
7. "From Digital Humanities to Computational Humanities: A Framework Integrated with Computational Social Science," the *Sixth International Conference on Digital Archives and Digital Humanities: Focusing on East Asia (DA-DH'2015)*, Panel on "Large-Scale Humanistic Studies and Discoveries with Computing Facilitators", National Taiwan University, Taipei, Taiwan, November 30-December 2, 2015.
8. "The Use of Knowledge in the Digital Society," *Conference on Complex Systems (CSS 2015)*, Tempe, Arizona, USA, September 28 –October 2, 2015.
9. "Agent-Based Modeling as a Foundation of Big Data," *The 9th International Workshop on Agent-based Approaches in Economic and Social Complex Systems (AESCS'15)*, Ramada Bintang Bali Resort, Bali, Indonesia, September 9-11, 2015.
10. "Trust, Network and Wealth: From Human-Subject Experiments to Agent-Based Modeling," *the 4th Asia-Pacific Econophysics Conference*, Nanyang Technological University, Singapore, July 13-15, 2015.
11. "On the Naturally Allied Spiral of Agent-based Computational Economics and Experimental Economics," *First Cross-Straits Symposium on Economic Frontier and Policy Simulation in China*, China Southern Normal University, Guangzhou, China, November 15-16, 2014.
12. "ACE and EE: A Review of Some Recent Progresses," the *5th World Congress on Social Simulation*, São Paulo, Brazil, November 4-7, 2014.
13. "Competition in a New Industrial Economy: Toward an Agent-Based Economic Model of Modularity," (with Bin-Tzong Chie), *11th International Conference of Socionetwork Strategies: Understanding Complex Society from Agent-Based Simulation*, Research Institute for Socionetwork Strategies, Kansai University, Osaka, Japan, Feb 27, 2014.
14. "Macroeconomic Modeling in the Post-Financial Crisis Era: Opportunities and Challenges for the Agent-Based Computational Economics," *Workshop on Computational Finance and Economics*, Mexican Central Bank, Mexico City, Mexico. October 17, 2012
15. "On the Market Origin of Agent-Based Simulation in Economics: KISS, YES! But, Where?" *The Fifth Edition of Epistemological Perspectives on Simulation (EPOS V)*, Trinity University, San Antonio, Texas, October 10-12, 2012.

16. "Social Networks and Macroeconomics," *3rd International Workshop on Managing Financial Instability in Capitalist Economies (MAFIN 2012)*, Genoa, Italy, September 19-21, 2012.
17. "Predicting the Prediction Market: Would Smart Agents Help?," *AI, The Fundamental Social Aggregation Challenge, and the Autonomy of Hybrid Agent Groups, AAAI, 2012 Spring Symposia*, Stanford University, March 26-28, 2012.
18. "Social Networks, Social Learning and Macroeconomic Dynamics: How Much Could Ernst Ising Help DSGE?," *Research in International Business and Finance Symposium*, University of Limerick, Limerick, Ireland, November 24, 2011.
19. "Catastrophes or Dangerous Dynamics in Agent-Based Modular Economy," *3rd International Conference on Econophysics and Summer School on Teaching and Enterprise*, Department of Physics and School of Science, Loughborough University, UK, September 24-29, 2011.
20. "On the Cognitive Capacity and Cognitive Heterogeneity of Artificial Agents: From Laboratory Games to Financial Markets," *International Conference on Nonlinear Economic Dynamics and Financial Market*, South China Normal University and Guangzhou University, Guangzhou, China, March 31-April 2, 2011.
21. "Toward an autonomous-agents inspired economic analysis," *First Workshop on Quantitative Finance and Economics*, International Christian University, Tokyo, Feb 21-23, 2011.
22. "Cognitive Financial Agents: From Generalized Reinforcement Learning to Genetic Programming," *Conference on Quantitative Behavioral Finance*, University of Nice Sophia Antipolis, Nice, France, December 8-10, 2010.
23. "Varieties of Agents in Agent-Based Computational Economics: A Historical and an Interdisciplinary Perspective," *50th Shuangqing Science Forum "The Computational and Experimental Methods in Management Science"*, National Natural Science Foundation of China and Tianjin University, Tianjin, China, November 23-25, 2010.
24. "Microstructure Dynamics and Agent-Based Financial Markets: Can Dinosaurs Return?" *The Second Edition of the International Workshop on Managing Financial Instability in Capitalist Economies (MAFIN 2010)*, Reykjavik University, Reykjavik, Iceland, September 23-25, 2010.
25. "Varieties of Agents in Agent-Based Computational Economics: A Historical and an Interdisciplinary Perspective," *The 16th International Conference on Computing in Economics and Finance (SCE'2010)*, City University London, London, UK, July 13-17, 2010.
26. "Origin of Agent-Based Computational Economics: Agent-Based Modeling of Economic Experiments," *International Conference on how and why economists and philosophers do experiments: dialogue between experimental economics and experimental philosophy (KEEL'2010)*, Kyoto Sangyo University, Kyoto, Japan, March 27-28, 2010.
27. "Agent-Based Computational Modeling in Economics: From the Origins to the Frontiers," *Facing Crisis: International Seminar on How to Develop Methods of Economic Research*, Beijing, China, September 10-11, 2009.
28. "Artificial Economic Agents with Heterogeneous Cognitive Capacity and Their Economic Consequences: Study Based on Agent-Based Double Auction Market Simulations," (with Tina Yu), *The 4th International Conference on Economic Science with Heterogeneous Agents (ESHIA'2009)*, Beijing Normal University, Beijing, China, June 18-20, 2009.
29. "Agent-based Simulation Models of Financial Markets," *The First Chinese Forum on Intelligent Finance*, Chinese Academy of Sciences, Beijing, China, Feb 26-28, 2009.
30. "Toward a Bottom-Up Risk Simulator: An Agent-Based Model of Lottery Tax Rates," *2008 International Conference on Business Intelligence and Financial Engineering (BIFE'2008)*, Changsha University of Science & Technology, Changsha, China, October 28-30, 2008.
31. "Agent-Based Economic Model and Econometrics," *International Workshop on Nonlinear Economic Dynamics*

*and Financial Market Modelling*, Peking University, Beijing, China, October 9-11, 2008.

32. "Agent-Based Economic Models and Econometrics," *Econophysics Colloquium 2008*, Kiel University, Kiel, Germany, August 28-30, 2008.
33. "Agent-Based Modelling in Economics and Finance," *A CIFREM Tutorial Workshop on Agent-Based Modelling in Economics and Finance*, Trento University, Trento, Italy, May 19-20, 2008.
34. "Agent-Based Computational Economics and Econometrics," *The 11th Asia-Pacific Workshop on Intelligent and Evolutionary Systems, (IES 2007)*, National Defense Academy, Yokosuka, Japan, November 30-December 2, 2007.
35. "Genetic Programming and Agent-Based Computational Economics," *The 5th International Workshop on Agent-based Approaches in Economic and Social Complex Systems (AESCS'07)*, Waseda University, Tokyo, Japan, August 29-30, 2007.
36. "Economic Issues Presenting Challenges to Genetic Programming," *2007 Seoul BK Colloquium on Learning Complex Structures, (SCLCS 2007)*, Seoul National University, Seoul, Korea, August 22-25, 2007.
37. "On the Plausibility of Sunspot Equilibria: Simulations Based on Agent-Based Artificial Stock Markets," *The Second International Workshop on Intelligent Finance (IWIF-II)*, Chengdu, China, July 6--8, 2007.
38. "Trading with Genetic Programming: Evidence from Stock Markets and Foreign Exchange Markets," the plenary speech given at *the ICSC Congress on Computational Intelligence: Methods and Applications, (CIMA'05)*, Istanbul, Turkey, December 15-17, 2005.
39. "Evolving Economic Theory with Evolutionary Computation," the keynote speech given at the *2004 Conference on Intelligent Information Systems & the First Workshop on Evolutionary Computation Applications*, Aletheia University, Taipei, May 22, 2004.
40. "Agent-Based Computational Approach to Complex Adaptive Economic Systems," plenary speech given at the *First Cross-Strait Conference on Statistical Physics*, Yangzhou University, Yangzhou, China. August 27-31, 2003.
41. "Understanding Sunspots: An Analysis Based on Agent-Based Artificial Stock Markets," invited talk given at the *6th Taiwan International Symposium on Statistical Physics: Lattice Model and Complex System (StatPhys-Taiwan-2002)*, Academia Sinica, Taipei and National Chung Hsing University (Huei-Suen Farm), Taiwan, 26 May-1 June 2002.
42. "John Holland's Legacy in Economics," keynote speech to be given at *SECOND CeNDEF WORKSHOP on ECONOMIC DYNAMICS*, Center for Nonlinear Dynamics in Economics and Finance, Universiteit van Amsterdam, January 4-6, 2001.
43. "On the Relevance of Genetic Programming to Evolutionary Economics," plenary speech given at the *4th Annual Meeting of the Japan Association for Evolutionary Economics (JAFEE'2000)*, Surugadai Memorial Hall of Chuo University, Tokyo, Japan, March 25-26, 2000.
44. "Genetic Programming in Agent-Based Modeling of Artificial Stock Markets: Part 1," Open Lecture given in *Seminar on Computational Intelligence in Economics and Finance*, International Christian University, Tokyo, Japan, March 24, 2000.
45. "Simulating the Artificial Stock Markets with Spirit of Keynes and the Neo-Classical," plenary speech given at the *Workshop on Expectational and Learning Dynamics in Financial Markets*, University of Technology, Sydney, December 13-14, 1999.
46. "Genetic Algorithms in Complex Adaptive Economic Systems: Successes and Failures," plenary speech to be given at the *First Asia-Pacific Workshop on Genetic Algorithms and Applications (APGA'98)*, Tsinghua University, Beijing, China. October 18-20, 1998.
47. "Genetic Programming Learning in the Cobweb Model with Inventory," (with C.-H. Yeh), plenary speech given at the *IIGSS- CB The First Workshop on General Systems Methodology and Applications (GSMA'96)*, Huazhong University of Science and Technology, Wuhan, China, July 16-18, 1996.

48. "On the Cognitive Foundations of Economics: Evolution, Information, and Computation," paper presented at the *Symposium on the Development in Cognitive and Life Sciences in memory of Chao-Ting Chang*, Department of Philosophy, National Chung Cheng University, Chia-Yi, April 20-21, 1996.
49. "From the Hayek Hypothesis to Animal Spirits: The Phase Transition based on Competitive Experimental Markets", (with J. Kuo and C. Lin), paper presented at the conference "Inflation, Institutions and Information: Theories and History" held in Honor of Axel Leijonhufvud at the Central Bank of Uruguay, Montevideo, Uruguay, September 6-7 1993.

## Tutorial [Top](#)

1. "Agent-based Computational Economics and Finance," College of Management and Economics, Tianjin University, Tianjin, China, June 14-18, 2016.
2. "Agent-based Computational Economics and Finance," College of Management and Economics, Tianjin University, Tianjin, China, July 4-9, 2015.
3. "ACE and EE: A Review of Some Recent Progresses," *the Summer School of the 19th Annual Workshop on the Economic Science with Heterogeneous Interacting Agents (ESHIA 2013)*, Tianjin University, Tianjin, China, June 14, 2014
4. "Agent-based Computational Economics and Finance," College of Management and Economics, Tianjin University, Tianjin, China, June 9-13, 2014.
5. "Agent-based Computational Economics and Finance," College of Management and Economics, Tianjin University, Tianjin, China, Nov 26-30, 2012.
6. "Lecture Series on Agent-Based Computational Economics: A Historical and Interdisciplinary Review," School of Economics and Management, Harbin Institute of Technology, Harbin, China. Nov 7-9, 2011.
7. "Varieties of Agents in Agent-Based Computational Economics: From Calibrated Artificial Agents to Autonomous Agents," *Summer School on Intelligent Agents*, National Tsing-Hwa University, Hsinchu, Taiwan, June 28-July 1, 2010.
8. "Agent-Based Modeling in economics and econometrics", *APCTP (Asia Pacific Center for Theoretical Physics) School on Econophysics*, Pohang, Korea, August 24-27, 2009.
9. "Agent-Based Modeling in Finance: The Tradition of Human-Subject Experiments". *The Central European University (CEU) Summer School on Complex Systems and Social Simulations (CSS)*, Budapest, Hungary, July 23, 2009.
10. "Heterogeneous and Multi-Agent Modeling", *The 15th International Conference Computing in Economics and Finance, University of Technology*, Sydney, Australia, July 13-17, 2009.
11. "Agent-Based Computational Economics and Some of Its Recent Developments", 東吳學 95 年度教學卓越計畫計算智慧在經濟與財務上的發展與應用研習會，March 24, 2007
12. "Discovering Hidden Financial Patterns with Genetic Programming," (with T. Yu and T.-W. Kuo), *The 2nd IASTED International Conference on Financial Engineering and Applications (FEA 2004)*, MIT, Cambridge, November 8-10, 2004.
13. "Teaching Econ I with Agent-Based Modeling," *The Fourth Workshop on Nonlinear Physics*, National Chung Hsing University, Taichung, Taiwan, Dec. 20-22, 2002.
14. "Genetic Programming in Economics and Finance,"(with C.-H. Yeh), *Congress on Evolutionary Computation (CEC'2001)*, COEX, Seoul, Korea, May 27-30, 2001.
15. "Genetic Programming in Economics and Finance," *Congress on Evolutionary Computation (CEC'2000)*, La Jolla, California, U.S.A, July 16-19, 2000.

## PUBLICATIONS: Conference Papers [Top](#) Ben Vermeulen

1. "Less is More: Minimal Intelligence in the History of Cognitive Science," *The First Conference on Zero/Minimal Intelligence Agents*, Yale School of Management and the Cowles Foundation for Research in Economics, New Haven, Connecticut, October 22-24, 2020.
2. "Digital Humanities and the Digital Economy," The 2020 Annual Conference of **ICAPE** (*International Confederation of Association for Pluralism in Economics*), University of San Diego, January 5-6, 2020.
3. "U.S. Silver Purchase Act and Chinese Economy in 1928-1936: A New Perspective from Textual Analysis on Newspaper Data," (with Ching Hsu and Tina Yu), The 2020 Annual Conference of **ICAPE** (*International Confederation of Association for Pluralism in Economics*), University of San Diego, January 5-6, 2020.
4. "Consilience, Agent-Based Modeling and the Humanities," The 2020 Annual Conference of **ICAPE** (*International Confederation of Association for Pluralism in Economics*), University of San Diego, January 5-6, 2020.
5. "On the Ontological Turn in Economics: The Promise of Agent-Based Computational Economics," *Asian Conference on the Philosophy of the Social Sciences*, Nankai University, Tianjin, China, June 1-2, 2019.
6. "Agent-based Modeling: The Right Mathematics for Radical Political Economics?" *Western Social Science Association (WSSA) 61st Annual Conference*, San Diego, April 24-27, 2019.
7. "Digital Humanities and Digital Economy," *45th Eastern Economic Association Annual Conference (EEA 2018)*, New York., February 28-March 3, 2019.
8. "Agent-based Modeling: The Right Mathematics for Radical Political Economics?" The 2019 Annual Conference of **ICAPE** (*International Confederation of Association for Pluralism in Economics*), Agnes Scott College, Atlanta, Jan 3, 2019.
9. "The Use of Knowledge in A Digital Society," (with Ragupathy Venkatachalam), *88th Annual Meeting of the Southern Economic Association (SEA 2018)*, Washington DC, November 18-20, 2018.
10. "Agent-based Modeling: The Right Mathematics for Radical Political Economics?" URPE 50th Anniversary Conference and Celebration, University of Massachusetts Amherst, September 27-30, 2018.
11. "Abnormal Earnings Management, Retail Investor Attention, and Stock Price Inertia in Shanghai and Shenzhen Market," (with Hung-Wen Lin, Jing-Bo Huang, and Kun-Ben Lin), *Asia Pacific Econophysics Conference (APEC 2018)*, Chinese Culture University, Taipei, Taiwan, August 29-31, 2018.
12. "An Experimental Examination of the Heuristics Switching Model in Learning-to-Forecast Tasks," (with Chung-Ching Tai), *Asia Pacific Econophysics Conference (APEC 2018)*, Chinese Culture University, Taipei, Taiwan, August 29-31, 2018.
13. "Excess Media Coverage, Timely Loss Avoidance and Negative Momentum Profit in Chinese Stock Markets," (with Hungwen Lin, Jingbo Huang, and Kunben Lin), the 23rd Annual Workshop on the Economic Science with Heterogeneous Interacting Agents (**WEHIA 2018**), International Christian University, Tokyo, Japan, June 30-July 2, 2018.
14. "Evolutionary Programming of Product Design Strategies under Market and Technological Uncertainty: An Agent-based and Experimental Economics Study," (with Ben Vermeulen, Bin-Tzong Chie, Jamie Wallace, and Andreas Pyka), the *23rd Annual Workshop on the Economic Science with Heterogeneous Interacting Agents (WEHIA 2018)*, International Christian University, Tokyo, Japan, June 30-July 2, 2018.
15. "Behavioral Foundations of Higher Education Reforms and Designs: What We May Learn from the NCCU Dynamics," the 5th Annual Asia Pacific Research Intelligence Conference, Yonsei University, Seoul, South Korea, June 20-22, 2018.
16. "Examining the Heuristics Switching Model in Learning-to-Forecast Experiments," (with Chung-Ching Tai), 24th

- International Conference on Computing in Economics and Finance (**CEF 2018**), Milan, Italy, June 19-21, 2018.
17. "Realizable Utility Maximization as a Mechanism for the Stability of Competitive General Equilibrium in the Scarf Economy," (with Tungkui Yu), *44th Eastern Economic Association Annual Conference (EEA 2018)*, Boston, DC., March 1-4, 2018.
  18. "Getting Bulls and Bears into a Real Economy: An Agent-Based Integration," (with Weihong Huang and Yu Zhang), *44th Eastern Economic Association Annual Conference (EEA 2018)*, Boston, DC., March 1-4, 2018.
  19. "Examining the Heuristics Switching Model in Learning-to-Forecast Experiments," (with Chung-Ching Tai), *44th Eastern Economic Association Annual Conference (EEA 2018)*, Boston, DC., March 1-4, 2018.
  20. "Examining the Heuristics Switching Model in Learning-to-Forecast Experiments," (with Chung-Ching Tai), *2018 Asia-Pacific Meeting of the Economic Science Association*, School of Economics and Finance, Queensland University of Technology, Queensland, Australia, February 7-9, 2018.
  21. "Analysis of the Impact of Collateral on Peer-to-Peer Lending," (with Yu-Wei Lee and Tina Yu), In *System Integration (SII), 2017 IEEE/SICE International Symposium* on (pp. 77-82). Howard Plaza Hotel, Taipei, Taiwan, December 11-14, 2017.
  22. "How Does Your Political Color "Dye" Your Social Expectation in Trust Games?" (with Yang-Teng Fan, Ray-May Hsung, Ho-Ling Liu, Ye-Rong Du, Tien-Tun Yang, Nai-Shing Yen, Chien-Te Wu), *1st Workshop on the Complex Dynamics of Financial Markets under Complex Information Environments (CIFMD 2016)*, Tianjin University, Tianjin, China, December 2-4, 2016.
  23. "Agent-based Modeling of Chinese University Admission Mechanisms: From the Boston Mechanism to the Chinese Parallel Mechanism, Mission Accomplished?" (with Connie H. Wang), *INFORMS 2016 Annual Meeting*, Nashville, Tennessee, USA, November 12-17, 2016.
  24. "Effects of Centralized Student Assignment Mechanisms on Educational Equality: An Agent-Based Model," (with Connie H. Wang and George R. Larkin), *The 2016 Duke Forest Conference: Economics in the Era of Natural Computationalism and Big Data*, Duke University, Durham, North Carolina, USA, November 11-13, 2016.
  25. "Agent-Based Modeling as a Foundation of Big Data," (with Ragupathy Venkatachalam), *The 2016 Duke Forest Conference: Economics in the Era of Natural Computationalism and Big Data*, Duke University, Durham, North Carolina, USA, November 11-13, 2016.
  26. "How Does Your Political Color "Dye" Your Social Expectation in Trust Games?" (with Yang-Teng Fan, Ray-May Hsung, Ho-Ling Liu, Ye-Rong Du, Tien-Tun Yang, Nai-Shing Yen, Chien-Te Wu), *82th International Atlantic Economic Conference (IAEC 2016)*, Washington D. C., USA, October 13 -16, 2016.
  27. "Effects of Centralized Student Assignment Mechanisms on Educational Equality: An Agent-Based Model," (with Connie Wang), *82th International Atlantic Economic Conference (IAEC 2016)*, Washington D. C., USA, October 13 -16, 2016
  28. "Chinese University Admission Mechanisms: Should We Defer Deferred Acceptance?" (with Connie Wang), *Second International Conference on Computational Social Science (IC<sup>2</sup>S<sup>2</sup>)*, Kellogg School of Management, Northern Western University, Evanston, Illinois, USA, June 22-26, 2016.
  29. "Has Homo Economicus Evolved into Homo Sapiens? What Does the Corpus Linguistics Say?" (with Yawen Zoe), *2016 Chinese Economists Society Annual Conference (CES 2016)*, Peking University HSBC Business School, Shenzhen, China, June 10-12, 2016.
  30. "Agent-Based Modeling of Chinese University Admission Mechanisms: from the Boston Mechanism to the Chinese Parallel Mechanism, Mission Accomplished?" (with Connie H Wang), *2016 Chinese Economists Society Annual Conference (CES 2016)*, Peking University HSBC Business School, Shenzhen, China, June 10-12, 2016.
  31. "Agent-Based Modeling of a Non-Tatonnement Process for the Scarf Economy: The Role of Learning," (with Bin-Tzong Chie, Ying-Fang Kao, and Ragupathy Venkatachalam), *Fourth International Symposium in Computational*



*Economics and Finance (ISCEF)*, Paris, France, April 14-16, 2016.

32. "Is the IS Puzzle a Puzzle or an Aggregation Bias?" (with Lian-Sheng Yang, Chia-Ling Chang, and Yi-Heng Tseng), *Fourth International Symposium in Computational Economics and Finance (ISCEF)*, Paris, France, April 14-16, 2016.
33. "Taiwan Limit Order Book Transparency and Order Aggressiveness at the Closing Call: Lessons from the TWSE 2012 New Information Disclosure Mechanism," (with Yi-Heng Tseng), *2016 International Conference of Financial Engineering (ICFE2016)*, Tsinghua University at Shenzhen, Shenzhen, China, April 9-10, 2016.
34. "Heterogeneity in Generalized Reinforcement Learning and Its Relation to Cognitive Ability," (with Ye-Rong Du), *2016 North America Conference of the Chinese Economists Society (CES)*, Sacramento, California, USA, April 2-3, 2016.
35. "Has Homo Economicus Evolved Into Homo Sapiens: What Does Corpus Linguistics Say?" (with Yawen Zou), *Digitarium 2016*, University of Alabama, Tuscaloosa, Alabama, March 3-5, 2016.
36. "Agent-Based Modeling of a Non-Tatonnement Process for the Scarf Economy," (with Bing-Tzong Chie, Selda Kao and Ragupathy Venkatachalam), *42th Eastern Economic Association Annual Conference (EEA 2016)*, Washington, DC., Feb 25 – 28, 2016.
37. "Herbert Simon and Agent-Based Computational Economics," (with Selda Kao), Society for the Advancement of Behavioral Economics (**SABE**) Session on "Herbert Simon, Commemorating the Centenary of Simon's Birth," *2016 Allied Social Sciences Association (ASSA) Meetings*, San Francisco, California, US, January 2-5, 2016.
38. "Evolutionary Economics of the Web: Can Computational Intelligence Make Sentiment Analysis Another Price Discovery Process?" *The 4th International Conference on Intelligent Finance (ICIF-IV)*, Chongqing, Sichuan, China, December 10-12, 2015.
39. "Herbert Simon and Agent-Based Computational Economics," (with Selda Kao), *85th Annual Meeting of the Southern Economic Association (SEA 2015)*, New Orleans, Louisiana, November 21-23, 2015.
40. "Even Brothers Keep Careful Accounts: An Experimental Repeated Trust Game and Political Identity," (with Ye-Rong Du, Ray-May Hsung, Tien-Tun Yang), *2015 Economic Science Association (ESA) North American Meeting*, Sheraton Dallas, Dallas, Texas, October 22-24, 2015.
41. "Political Preferences Modulate Neural Correlates of Trusting Decisions," (with Yang-Teng Fan, Ray-May Hsung, Ho-Ling Liu, Ye-Rong Du, Tien-Tun Yang, Nai-Shing Yen, Chien-Te Wu), *Neuroscience 2015*, Chicago, October 17-21, 2015.
42. "When to Imitate and How it Matters for Price Discovery: An Agent-Based Approach," (with BinTzong Chie, Ying-Fang Kao and Ragupathy Venkatachalam), *80th International Atlantic Economic Conference (IAEC 2015)*, Omni Parker House Hotel, Boston, USA, October 8 -11, 2015.
43. "Stability of General Equilibrium Under Learning in an Agent-based Scarf Economy," (with BinTzong Chie, Ying-Fang Kao and Ragupathy Venkatachalam), *21th International Conference on Computing in Economics and Finance (CEF 2015)*, Taipei, Taiwan, June 20-22, 2015.
44. "Efficiency of the Experimental Prediction Market: Heterogeneous Information, Belief, and Personality," (with Bin-Tzong Chie and Chung-Yu Wu), *21th International Conference on Computing in Economics and Finance (CEF 2015)*, Taipei, Taiwan, June 20-22, 2015.
45. "The Formation and Destruction of Trust: Experimental Evidence from Network-Based Trust Games," (with Chung-Ching Tai and Yi-Ting Yeh), *21th International Conference on Computing in Economics and Finance (CEF 2015)*, Taipei, Taiwan, June 20-22, 2015.
46. "Heterogeneity in Experience-Weighted Attraction Learning and Its Relation to Cognitive Ability," (with Ye-Rong Du), *21th International Conference on Computing in Economics and Finance (CEF 2015)*, Taipei, Taiwan, June 20-22, 2015.
47. "On the Size Effect of a Simple Agent-Based Macroeconomic Model," (with Ying-Fang Kao and Ragupathy

- Venkatachalam), *21th International Conference on Computing in Economics and Finance (CEF 2015)*, Taipei, Taiwan, June 20-22, 2015.
48. "Matching Impact of School Admission Mechanisms: An Agent-Based Approach," (with Connie Wang and Weikai Chen), *21th International Conference on Computing in Economics and Finance (CEF 2015)*, Taipei, Taiwan, June 20-22, 2015.
  49. "Herbert Simon and Agent-Based Computational Economics," (with Selda Kao), *95th Annual Meeting of the Southwestern Social Science Association (SSSA 2015)*, Denver, Colorado, April 8-11, 2015.
  50. "On the Size Effect of a Simple Agent-Based Macroeconomic Models," (with Selda Kao, Bing-Tzong Chie, and Timo Mayer), *41th Eastern Economic Association Annual Conference (EEA 2015)*, New York City, Feb 26 – March 1, 2015.
  51. "Matching Impact of University Admission Mechanism: An Agent-Based Approach" (with Connie Wang and Weikai Chen), *41th Eastern Economic Association Annual Conference (EEA 2015)*, New York City, Feb 26 – March 1, 2015.
  52. "Trust, Network, Wealth Accumulation and Distribution: An Agent-Based Model," (with Bin-Tzong Chie), *14th SAET Conference on Current Trends in Economics*, Waseda University, Tokyo, Japan, August 19-21, 2014.
  53. "Mechanisms of Trust Formation under Different Conditions of Political Identity," (with Tien-Tun Yang, Ray-May Hsung, Ye-Rong Du, Yi-Jr Lin), *XVIII ISA World Congress of Sociology*, Yokohama, Japan, July 13-19, 2014.
  54. "Economics as an Experimental Science: A Review of Some Recent Progresses," *The 12th Taiwan International Symposium on Statistical Physics and Complex Systems (StatPhys-Taiwan-2014)*, Institute of Physics, Academia Sinica, Taipei, Taiwan, June 28-30, 2014.
  55. "The Formation of Risk-Sharing Social Networks," (with Tong Zhang and Yu Wu), *20th International Conference on Computing in Economics and Finance (CEF 2014)*, BI Norwegian Business School and Norges Bank, Oslo, Norway, June 22-24, 2014.
  56. "The Donor-Recipient Games: Agent-based vs. Equation-based Modeling," (with Wen-Jong Ma and Chia-Yao Tseng), *20th International Conference on Computing in Economics and Finance (CEF 2014)*, BI Norwegian Business School and Norges Bank, Oslo, Norway, June 22-24, 2014.
  57. "Agent-based Modeling of the Donor-Recipient Games," (with Wen-Jong Ma and Chia-Yao Tseng), the *19th Annual Workshop on the Economic Science with Heterogeneous Interacting Agents (WEHIA 2014)*, Tianjin University, Tianjin, China, June 14-19, 2014.
  58. "Aggregation Problem in the New Keynesian DSGE model," (with Chia-Ling Chang and Yi-Heng Tseng), the *19th Annual Workshop on the Economic Science with Heterogeneous Interacting Agents (WEHIA 2014)*, Tianjin University, Tianjin, China, June 14-19, 2014.
  59. "The Formation of Risk-Sharing Social Networks," (with Tong Zhang and Yu Wu), *2014 Chinese Economists Society Annual Conference (CES 2014)*, Jinan University, Guangzhou, China, June 14-15, 2014.
  60. "Spatial Modeling of Agent-Based Prediction Markets," (with Bin-Tzong Chie), *2014 Chinese Economists Society Annual Conference (CES 2014)*, Jinan University, Guangzhou, China, June 14-15, 2014.
  61. "Network-Based Trust Games: An Agent-Based Model," (with Bin-Tzong Chie and Tong Zhang), *2014 Chinese Economists Society Annual Conference (CES 2014)*, Jinan University, Guangzhou, China, June 14-15, 2014.
  62. "Agent-Based Modeling of School Admission Systems," (with Weikai Chen and Connie Wang), *2014 Chinese Economists Society Annual Conference (CES 2014)*, Jinan University, Guangzhou, China, June 14-15, 2014.
  63. "Don't Get Mad, Get Even: Emotions in Ultimatum Games," (with Chia-Yang Lin), *2014 NeuroPsychoEconomics Conference*, Ludwig Maximilian University, Munich, Germany, May 29-30, 2014.
  64. "Heterogeneity in Experienced-Weighted Attraction Learning and Its Relation to Cognitive Ability," (with Ye-Rong Du), *2014 NeuroPsychoEconomics Conference*, Ludwig Maximilian University, Munich, Germany, May 29-30, 2014.

65. "Agent-Based Modeling of School Admission Systems: Comparison between the "Dark" and "Bright" Schemes" (with Connie Wang and Weikai Chen), *The 6th International Workshop on Emergent Intelligence on Networked Agents (WEIN'14)* at the *13th International Joint Conference on Autonomous Agents and Multi-Agent (AAMAS 2014)*, Paris, France, May 5, 2014.
66. "Order Aggressiveness in Call Auction: Lessons from Closing Call's Information Disclosure New Mechanism in Taiwan," (with Yi-Heng Tseng and Chia-Ling Chang), *The 5th FMCGC Financial Markets and Corporate Governance Conference*, Queensland University of Technology, Brisbane, Australia, April 22-24, 2014.
67. "Predicting Prediction Markets with Combined Forecasts," (with Chen-Yuan Tung, Chung-Ching Tai, Brian Chie, and Hung-Wen Lin), *Southwestern Society of Economists 2014 Annual Meeting*, Dallas, Texas, March 11-15, 2014.
68. "Enhancing Interdisciplinary Teaching with Agent-Based Models," *40th Eastern Economic Association Annual Conference*, Boston Park Plaza Hotel, Boston, March 6-9, 2014.
69. "Predicting Prediction Markets with Combined Forecasts," (with Chen-Yuan Tung, Chung-Ching Tai, Brian Chie, and Hung-Wen Lin), *40th Eastern Economic Association Annual Conference*, Boston Park Plaza Hotel, Boston, March 6-9, 2014.
70. "Don't Get mad, Get even: Emotion in Ultimatum Games," (with Chia-Yang Lin), *2014 Asia-Pacific Meeting of the Economic Science Association*, University of Auckland Business School, Auckland, New Zealand, February 19-21, 2014.
71. "On the Prediction Accuracy of Prediction Markets: Would the Spatial Distribution of Information Matter?" (with Bin-Tzong Chie), *International Workshop on Computational, Cognitive and Behavioral Social Science (CCB'2013)*, National Chengchi University, Taipei, Taiwan, Dec 6-8, 2013.
72. "Agent-Based Modeling of Donor-Receipts Games," (with Wen-Jong Ma and Chia-Yao Tseng), *International Workshop on Computational, Cognitive and Behavioral Social Science (CCB'2013)*, National Chengchi University, Taipei, Taiwan, Dec 6-8, 2013.
73. "On the Prediction Accuracy of Prediction Markets: Would the Spatial Distribution of Information Matter?" (with Bin-Tzong Chie), *The 2013 Winter Workshop on the Economic Science with Heterogeneous Interacting Agents (Winter ESHIA 2013)*, Nanyang Technology University, Singapore, Nov 18-19, 2013.
74. "Agent-Based Modeling of Donor-Receipts Games," (with Wen-Jong Ma and Chia-Yao Tseng), *The 2013 Winter Workshop on the Economic Science with Heterogeneous Interacting Agents (Winter ESHIA 2013)*, Nanyang Technology University, Singapore, Nov 18-19, 2013.
75. "NCCU International in Retrospect and Prospect: What Have We Done and What Have We Not?" *Taiwan Inclusive: Trends, Opportunities, and Challenges*, Miller Center, University of Virginia, Charlottesville, Virginia. November 15-16, 2013
76. "Role of Price in Industry Dynamics: A Modular Perspective," (with Bin-Tzong Chie), *25th Annual European Association of Evolutionary Political Economy (EAPE'2013)*, Paris, France, November 7-9, 2013.
77. "Heterogeneity in Experienced-Weighted Attraction and Its Relation to Cognitive Ability," (with Ye-Rong Du and Lei Xiang Yang), *2013 Regional Economic Science Association (ESA) Conference*, Hotel Paradox, Santa Cruz, California, October 24-26, 2013.
78. "NCCU International in Retrospect and Prospect: What Have We Done and What Have We Not?" the *34th Korea-Sino Academic Conference*, Cheongju University, Cheongju, Korea, October 22, 2013.
79. "Trust, Growth, and Inequality: An Agent-Based Model," (with Bin-Tzong Chie), the *8th International Workshop on Agent-Based Approach in Economics and Social Complex Systems (AESCS 2013)*, Shibaura Institute of Technology, Tokyo, Japan, September 11-13, 2013.
80. "Industrial Dynamics, Fluctuation and Growth in a Quality-Based, Agent-Based General Equilibrium Model," (with Bin-Tzong Chie), *19th International Conference on Computing in Economics and Finance (CEF 2013)*,

Vancouver, BC, Canada, July 10-12, 2013.

81. "Networks of Wealth and Wealth of Networks," (with Bin-Tzong Chie), the *18th Annual Workshop on the Economic Science with Heterogeneous Interacting Agents (WEHIA 2013)*, Reykjavik University, Reykjavik, Iceland, June 20-22, 2013
82. "Cognitive Capacity and Earning Performance in Double-Auction Market Experiments" (with Chung-Ching Tai and Lee-Xieng Yang), *2013 Chinese Economists Society Annual Conference (CES 2013)*, Chengdu, China, June 8-10, 2013.
83. "Trust, Culture and Development: What We May Learn" (with Tong Zhang), *2013 Chinese Economists Society Annual Conference (CES 2013)*, Chengdu, China, June 8-10, 2013.
84. "From the El Farol Problem to a Good Society: How Do Social Networks and Cultures Affect What May Emerge?" (with Umberto Gostoli), the *2013 Chinese Economists Society Annual Conference (CES 2013)*, Chengdu, China, June 8-10, 2013.
85. "How Cognitive Capacity Affects Our Market Performance? An Experimental Study Based on Working Memory Capacity," (with Chung-Ching Tai and Lee-Xieng Yang), *Bay Area Behavioral and Experimental Economics Workshop (BABEEW 2013)*, Santa Clara University, Santa Clara, California, May 4, 2013.
86. "Cognitive Capacity and Cognitive Hierarchy: A Study Based on Beauty Contest Experiments," (with Ye-Rong Du and Lei Xieng Yang), *Symposium on Decision Science and Brain*, Research Center for Mind, Brain and Learning, National Chengchi University, Taipei, Taiwan. Feb 18, 2013.
87. "Cognitive Capacity and Cognitive Hierarchy: A Study Based on Beauty Contest Experiments," (with Ye-Rong Du and Lei Xieng Yang), *2012 Regional Economic Science Association (ESA) Conference*, Westward Look Resort, Tucson, Arizona, November 16-17, 2012.
88. "Transparency and Liquidity: A Revisit with Taiwan 2012 New Trading Mechanism," (with Yi-Heng Tseng and Chia-Ling Chang), *5th China Finance Review International Conference on Computing in Economics and Finance (CFRC'2012)*, Antai College of Economics and Management, Shanghai Jiaotong University, Shanghai, China, July 21-22, 2012.
89. "Agent-based Prediction Market: Market Mechanism, Social Network and Social Intelligence," *18th International Conference on Computing in Economics and Finance (CEF 2012)*, Prague, Czech, June 27-June 29, 2012.
90. "Social Network, Social Learning and Macroeconomic Dynamics: How Much Could Ernst Ising Help DSGE?" (with Chia-Ling Chang and Yi-Heng Tseng), *18th International Conference on Computing in Economics and Finance (CEF 2012)*, Prague, Czech, June 27-June 29, 2012.
91. "Intelligence and Level-k Reasoning in Beauty Contest Experiments: An Integrated Analysis," (with Ye-Rong Du and Lei-Xieng Yang), *Bay Area Behavioral and Experimental Economics Workshop (BABEEW 2013)*, Santa Clara University, Santa Clara, California, May 4-5, 2012.
92. "Predicting the Prediction Market: Would Smart Agents Help?" (with Chen-Yuan Tung, Chung-Ching Tai, Bin-Tzong Chie, Tzu-Chuan Chou), *38th Eastern Economic Association Annual Conference (EEA 2012)*, Park Plaza Hotel, Boston, US, March 9-11, 2012.
93. "Heterogeneity in Boundedly Rational Traders? Results from Double Auction Experiments," (with Chung-Ching Tai and Lee-Xieng Yang), *38th Eastern Economic Association Annual Conference (EEA 2012)*, Park Plaza Hotel, Boston, US, March 9-11, 2012..
94. "Intelligence and Level-k Reasoning in Beauty-Contest Experiments: An Integrated Analysis," (with Lei-Xieng Yang and Ye-Rong Du), SABE (Society for the Advancement of Behavioral Economics) Poster Session at the *2012 Allied Social Sciences Association (ASSA) Meetings*, Chicago, Illinois, US, January 5-8, 2012..
95. "From the El Farol Problem to a Good Society: How Social Networks and Cultures Affect What May Emerge?" *2011 Winter Workshop on Economic Heterogeneous Interacting Agents (WEHIA'2011)*, Tianjin University, Tianjin, China, Nov 4-5, 2011.

96. "When the El Farol Bar Problem Is Not a Problem? The Role of Social Preferences and Social Networks," (with Umberto Gostoli), *2<sup>nd</sup> Conference of the Computational Social Science of America*, Santa Fe, New Mexico, October 9-12, 2011.
97. "Heterogeneity in Boundedly Rational Traders? Results from Double Auction Experiments," (with Chung-Chih Tai and Lee-Xing Yang), *3<sup>rd</sup> Annual Meeting of the Academy of Behavioral Finance and Economics*, UCLA, Los Angeles, CA, September 21-23, 2011.
98. "To whom and where the hill becomes difficult to climb: Effects of personality and cognitive capacity in experimental DA markets," (with Umberto Gostoli, Chung-Chih Tai and Kuo-Chuan Shih), *3<sup>rd</sup> Annual Meeting of the Academy of Behavioral Finance and Economics*, UCLA, Los Angeles, CA, September 21-23, 2011.
99. "Personality and Preference: A Laboratory Study," (with Bin-Tzong Chih), *3<sup>rd</sup> Annual Meeting of the Academy of Behavioral Finance and Economics*, UCLA, Los Angeles, CA, September 21-23, 2011.
100. "The Decision-Making Process in a Double Auction Experiment: the Effect of Personality Traits and Working Memory," (with Umberto Gostoli, Chung-Ching Tai and Kuo-Chuan Shih), *2011 ICABEEP/IAREP/SABE conference*, Exeter, UK, July 12-16, 2011.
101. "Intelligence and Level-k Reasoning in Beauty-Contest Experiments: An Integrated Analysis," (with Lei-Xing Yang and Yeh-Rong Du), *2011 ICABEEP/IAREP/SABE conference*, Exeter, UK, July 12-16, 2011.
102. "Human Factors in the El Farol Bar Experiment," (with Chung-Chihg Tai and Umberto Gostoli), *International Meeting of the Economic Science Association (ESA 2011)*, Chicago, USA, July 7-10, 2011..
103. "Social Norm, Costly Punishment and the Evolution to Cooperation," (with Tongkui Yu and Honggang Li), *17<sup>th</sup> International Conference on Computing in Economics and Finance (CEF 2011)*, San Francisco, USA, June 29-July 1, 2011.
104. "Bottom-Up Coordination in the El Farol Bar Problem: The Role of Local Information and Social Network's Structure," (with Umberto Gostoli), *IEEE Congress on Evolutionary Computation (CEC 2011)*, New Orleans, USA, June 5-8, 2011.
105. "Non-Price Competition in an Agent-Based Modular Economy," (with Bin-Tzong Chie), *37<sup>th</sup> Eastern Economic Association Annual Conference*, New York City, New York, Feb 25-27, 2011.
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  220. "Genetic Algorithms and Genetic Programming Economics," (with C.-W. Tan) paper presented at the *Western Economic Association International 71st Annual Conference*, Hyatt Regency San Francisco, CA, USA, June 28-July 2, 1996.
  221. "Rissanen's Stochastic Complexity in Financial Markets," (with C.-W Tan), paper presented at *The Second International Conference on Computing in Economics and Finance*, Geneva, Switzerland, June 26-28, 1996.
  222. "Equilibrium Selection through Adaptation: Using Genetic Programming to Model Learning in a Coordination Game," (with J. Duffy and C.-H Yeh), paper presented at *The Second International Conference on Computing in*



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- Pacific Asian Association for Agent Based Social Sciences

## Academic Services [Top](#)

- Referee for International Journal
  - *Journal of Economic Dynamics and Control*, 2004
  - *Computational Management Science*, 2004.
  - *Advance in Econometrics*, 2004.
  - *Physica A*, 2004.
  - *Econometrics*, 2004.
  - *International Journal of Modern Physics B*, twice, 2004.
  - *Quantitative Finance*, 2002.
  - *Studies in Nonlinear Dynamics and Economics*, 2001.
  - *Genetic Programming and Evolvable Machines*, 2000.
  - *IEEE Transactions on Systems, Man, and Cybernetics*, 2000
  - *Asia Pacific Journal of Finance*, 99
  - *IEEE Transactions on Evolutionary Computation*, 98, 99, 2000.
  - *Journal of Economics and Management*, 98, 2000
  - *Games and Economic Behaviour*, 98.
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  - *Neural Network World*, 97.

- *Journal of Economic Dynamics and Control*, 96, 97 (twice), 99 (three times), 2000
  
- **Referee for International Research Projects:**
  - Engineering and Physical Sciences Research Council (**EPSRC**), U.K., 2004
  - Engineering and Physical Sciences Research Council (**EPSRC**), U.K., 2002
  - The Swiss National Science Foundation, 2002
  - Research Grants Council of Hong Kong, 2002
  - The Leverhulme Trust, U.K., 2001
  
- **Referee for International Academic Promotions**
  - Professor in Information Modeling, Nottingham Business School, UK., 2002.
- Executive Committee, Taiwanese Association of Artificial Intelligence (**TAAI**), 1996-2000.
- Executive Committee, International Institute for General Systems Studies-China Branch (**IIGSS-CB**), 1996-.
  
- **Conference Chair for International Conferences**
  - Conference Chair, *The Sixth International Workshop on Agent-based Approaches in Economic and Social Complex Systems (AESCS'09)*, Taipei, Taiwan, Nov. 13-14, 2009.
  - Conference Chair, *The Seventh International Conference on Computational Intelligence in Economics and Finance (CIEF'2008)*, Taoyuan, Taiwan, Dec. 5-7, 2008.
  - Conference Chair, *The Sixth International Conference on Computational Intelligence in Economics and Finance (CIEF'2007)*, Salt Lake City, Utah, USA, Jul. 18-24, 2007.
  - Conference Chair, *The Fifth International Conference on Computational Intelligence in Economics and Finance (CIEF'2006)*, Kao-hsiung, Taiwan, Oct. 8-11, 2006.
  - Conference Chair, *The Fourth International Workshop on Computational Intelligence in Economics and Finance (CIEF'2005)*, Salt Lake City, Utah, USA, Jul. 21-26, 2005.
  - Conference Chair, *The Third International Workshop on Computational Intelligence in Economics and Finance (CIEF'2003)*, Cary, North Carolina, Sep., 29-30, 2003.
  - Organizing Committee, *Workshop on Multiagent for Mass-User Support (MAMUS)*, Acapulco, Mexico, August 9, 2003.
  - Session Organiser, Special Session: Applications of AI in Finance & Economics, *The 2003 International Conference on Artificial Intelligence (IC-AI'03)*, Las Vegas, USA, June 23-26, 2003.
  - Conference Chair, *The AAAI-02 Workshop on Multi-Agent Modeling and Simulation of Economic Systems (MAMSES-02)*, Edmonton, Alberta, Canada, 2002.
  - Conference Chair, *The Second International Workshop on Computational Intelligence in Economics and Finance (CIEF'2002)*, Research Triangle Park, North Carolina, 2002.
  - Conference Chair, *The First International Workshop on Computational Intelligence in Economics and Finance (CIEF'00)*, Atlantic City, New Jersey, 2000.
  
- **Program Committee for International Conferences**
  - Program Committee, the 15<sup>th</sup> *International Conference on Computing Economics and Finance (CEF'09)*, Sydney, Australia, 2009.
  - Program Chair, *the Sixth International Conference on Simulated Evolution and Learning (SEAL'06)*, Hefei, Anhui, China, Oct. 15-18, 2006.
  - Program Committee, *the First World Conference on Social Simulation (WCSS'06)*, Kyoto, Japan, Aug. 21-25, 2006.

- Scientific Committee, *the 12<sup>th</sup> International Conference on Computing Economics and Finance (CEF '06)*, Limassol, Cyprus, June 22-24, 2006.
- Programme Committee, *ICSC Symposium on Advanced Computing in Financial Markets (ACFM'2005)*, Istanbul, Turkey, December 12-14, 2005.
- Programme Committee, *The 2005 International Conference on Natural Computation (ICNC'05) and the 2005 International Conference on Fuzzy Systems and Knowledge Discovery (FSKD'05)*, Hunan, China, Sep. 24--26, 2005.
- Programme Committee, *International Conference of Computational Intelligence and Multimedia Applications (ICCIMA'05)*, University of Nevada, Las Vegas, USA, August 16 - 18, 2005.
- Programme Committee, *The 11-th International Conference for the Society of Computational Economics (SCE'2005)* on "Computing in Economics and Finance", Washington, D.C., June 26-29, 2005.
- Programme Committee, *The IASTED International Conference on Financial Engineering and Application (FEA-2004)*, Boston, Massachusetts, Nov. 8-11, 2004.
- Programme Committee, *The 2004 IFAC Symposium on Modeling and Control of Economic Systems*, University of Redlands, CA, July 28 - 31, 2004.
- Programme Committee, *The 10-th International Conference for the Society of Computational Economics (SCE) on "Computing in Economics and Finance"*, University of Amsterdam, July 8-10, 2004.
- Programme Committee, *5th International Symposium on Soft Computing for Industry with Applications of Financial Engineering (ISSCI 2004)*, Sevilla, Andalucia, Spain, June 28 - July 4, 2004.
- Program Committee, *The Sixth Annual Genetic and Evolutionary Computation Conference (GECCO-2004)*, Seattle, Washington, June 26-30, 2004.
- Program Committee, *The Third International Workshop on Agent-based Approaches in Economic and Social Complex Systems (AESCS'04)*, Kyoto University, Kyoto, Japan. May 27-29, 2004.
- Program Committee, *The 9th Annual Workshop on Economics with Heterogeneous Interacting Agents (WEHIA'2004)*, Kyoto University, Kyoto, Japan. May 27-29, 2004.
- Referee, *The Fifth Annual Genetic and Evolutionary Computation Conference (GECCO-2003)*, Chicago, Illinois, July 12-16, 2003.
- Programme Committee, *The 2003 Conference of the Society for Computational Economics (SCE 2003)*, University of Washington, Seattle, July 11-13, 2003.
- Programme Committee, *The IASTED International Conference on Financial Engineering and Application (FEA-2003)*, Banff, Canada, July 2-4, 2003.
- Scientific Committee, *The 8th Annual Workshop on Economics with Heterogeneous Interacting Agents (WEHIA'2003)*, Kiel, Germany, May 29-31, 2003.
- Programme Committee, *6th European Conference on Genetic Programming (EuroGP2003)*, Essex, UK, April 14-16, 2003.
- Programme Committee, *the 4th Asia-Pacific Conference on Simulated Evolution And Learning, (SEAL'02)*, Singapore, November 18-22, 2002.
- Programme Committee, *The 6th International Conferences on Complex Systems 2002 (CS02)*, Tokyo, Japan, Sep. 9-11, 2002.
- Programme Committee, *The First International Joint Conference on Autonomous Agents & Multi-Agent Systems (AAMAS 2002)*, Bologna, Italy, July 15-19, 2002.
- Program Committee, *The Fourth Annual Genetic and Evolutionary Computation Conference, (GECCO-2002)*, New York city, July 9-13, 2002.

- Scientific Committee, *The 2002 Conference of the Society for Computational Economics*, Aix en Provence, France, June 27-29.
- Programme Committee, *5th European Conference on Genetic Programming (EuroGP2002)*, Kinsale, Ireland.
- Programme Committee, *The 14th International Conference on Computer Applications in Industry and Engineering (CAINE-2001)*, Las Vegas, Nevada, November 27-29, 2001.
- Programme Committee, *The 4th International Conference on Computational Intelligence and Multimedia Applications (ICCIMA01)*, Shonan International Village, Yokosuka, Japan, October 30 - November 1, 2001.
- Programme Committee, *the 2001 IFAC Symposium on Modeling and Control of Economic Systems*, Klagenfurt, Austria, September 6-8, 2001.
- Programme Committee, *The Third Annual Genetic and Evolutionary Computation Conference (GECCO-2001)*, San Francisco, California, July 7-11, 2001.
- Programme Committee, *2001 Congress on Evolutionary Computation (CEC'2001)*, Seoul, Korea, May 27-30, 2001.
- Programme Committee, *JSAI 2001 International Workshop on Agent-based Approaches in Economic and Social Complex Systems (AESCS 2001)*, Matsue City, Shimane, Japan, May 21-22, 2001.
- Programme Committee, *4th European Conference on Genetic Programming (EuroGP2001)*, Lake Como (milan), Italy, April 18-20, 2001.
- Programme Committee, *Second International Conference on Intelligent Data Engineering and Automated Learning (IDEAL'2000)*, The Chinese University of Hong Kong, Shatin, N.T., Hong Kong, December 13-15, 2000.
- Programme Committee, *The 5th Conference on Artificial Intelligence and Its Applications*, National Taiwan University of Technology, November 17.
- Programme Committee, *13th International Conference on Computer Applications in Industry and Engineering (CAINE-2000)*, Sheraton Princess Kaiulani Hotel, Honolulu, Hawaii USA, November 1 - 3, 2000.
- Programme Committee, *The Third Asia-Pacific Conference on Simulated Evolution And Learning (SEAL2000)*, Nagoya Congress Center, Nagoya, Japan, Oct. 25 - 27, 2000.
- Programme Committee, *Australian Symposium on Applications of Artificial Intelligence in Industry (AIAPPS'2000)*, Melbourne, Australia.
- Programme Committee, Special Session on *The 2000 Congress on Evolutionary Computation (CEC'2000)*, San Diego, U.S.A., July 16-19, 2000.
- Programme Committee, *The 2000 Genetic and Evolutionary Computation Conference (GECCO'2000)*, Las Vegas, Nevada, July 8-12, 1999.
- Programme Committee, *6th International Conference of the Society for Computational Economics on Computing in Economics and Finance*, Universitat Pompeu Fabra, Barcelona, Catalonia, Spain, July 6-8, 2000.
- Programme Committee, *The Second Asia-Pacific Conference on Genetic Algorithms (APGA'2000)*, Hong Kong, May, 2000.
- Programme Committee, *1999 National Computer Symposium (NCS'99)*, Tamkang University, Taipei, Dec. 20-22, 1999.
- Programme Committee, *The 1999 Genetic and Evolutionary Computation Conference (GECCO'99)*, Orlando, Florida, July 13-17, 1999.
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- Programme Committee, *The Third International Workshop of The International Institute for General Systems Studies (IIGSS)*, Beidaihe, Qinhuangdao, China, July 26-28, 1998.
- Programme Committee, *2nd World Congress on computational Intelligence (WCCI'98)*, Anchorage, Alaska, U.S.A., May 5-9, 1998.
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- Programme Committee, *The Fourth IEEE International Conference on Evolutionary Computation (ICEC'97)*, April, 1997.
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