

VITAE

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Education:

Tokyo Institute of Technology, Tokyo, JAPAN,

Graduate School, Systems Science, 1980-1985 Ph.D. (Dr. Science)

Under graduate, Dept. of Mathematics, 1976-1980

Employment:

Lecturer of Toyo University 1985-1988

Associate Professor of Toyo University 1988-1995

Professor of Toyo University 1995-1998

Professor of Waseda University 1998-

Dean of the Graduate School of Economics, Waseda University, 2014-2018

Academic Field:

Game Theory, Mathematical Economics, Experimental Economics

Academic Society:

Game Theory Society

Econometric Society

Japanese Economic Association

Japan Operations Research Society

The Japanese Society of Mathematical Economics

Ph.D. Committee member:

Dr. Harry Aarts, Twente University, the Netherlands

Dr. Yoshio Kamijo, Waseda Univeristy, Japan, as Chair

Dr. Kohei Kamaga, Waseda Univeristy, Japan

Dr. Takumi Kongo, Waseda Univeristy, Japan, as Chair
Dr. Ai Takeuchi, Waseda Univeristy, Japan, as Chair
Dr. Takuya Masuzawa, Keio Univeristy, Japan
Dr. Vivien Fortat, Univeristy of Rennes, France
Dr. Yasushi Agatsuma, Waseda Univeristy, 2017, Japan, as Chair
Dr. Koji Yokote, Waseda University, 2017, Japan, as Chair
Dr. Liu Suige, 2018, Japan, as Chair
Dr. Takaaki Abe, 2018, Japan, as Chair

Editor:

Editorial Board, Experimental Economics, 2017-

Chair of Organizing Committee of Conferences:

APESA2014 (Asia-Pacific Economic Science Association), February 2014
EAGT2015 (East Asian Game Theory Conference), 24-26 August 2015
Japanese Economic Association Annual Autumn Meeting, 9-10 September 2016

Referee for International Journals:

International Journal of Game Theory
Games and Economic Behavior
International Game Theory Review
Mathematical Social Sciences
Social Choice and Welfare
Environmental Economics and Policy Studies
Japanese Economic Review
Economic Bulletin

Teaching Experiences:

Game Theory (Graduate and Under Graduate)
Economics of Information ((Graduate and Under Graduate)
Micro Economics (Under Graduate)
Mathematics for Economics (Under Graduate)
Elementary Statistics (Under Graduate)

Publications:

Books:

Introductory Game Theory, Shinsei-sha, 2014 (in Japanese)
Game Theory Application Book, co-edited by M.Nakayama and S.Muto Toyo Keizai Shinpo-sha,
2013

Economics of Institution and Cognition, co-edited by Ryuichiro Ishikawa, NTT Shuppan, 2013
Mathematical Approach to Political Economy, co-edited by Ryo Nagata, Keiso Shobo, 2013.
Lecture on Game Theory, Shinsei-sha, 2012
Cooperative Game Theory, co-authored by M.Nakayama and S.Muto, Keiso-shobo, 2008 (in Japanese)
Exercises for Game Theory, Shinsei-sha 2004.(in Japanese)
Economic Game Theory - Applications of Cooperative Games, Saiensu-sha 2001 (in Japanese).
Solutions by Game Theory, co-edited by M.Nakayama and S.Muto, Yuhikaku, 2000 (in Japanese)

Articles:

Takumi Kongo, Koji Yokote and Yukihiko Funaki, "Relationally equal treatment of equals and affine combinations of values for TU games," to appear in *Social Choice and Welfare*, 2019.

R. Takahashi, Y. Todo and Yukihiko Funaki, "How can we motivate consumers to purchase certified forest coffee? Evidence from a laboratory randomized experiment using eye-trackers," *Ecological Economics*, Volume 150, pp. 107-121, August 2018.

Robert Veszteg and Yukihiko Funaki, "Monetary payoffs and utility in laboratory experiments," *Journal of Economic Psychology*, Volume 65, pp. 108-121, April 2018.

Yukihiko Funaki, Jiawen Li, Robert Veszteg "Public-goods games with endogenous institution-formation: Experimental evidence on the effect of the voting rule," 8(4), *Games*, 2017.

Yokote Koji, Takumi Kongo and Yukihiko Funaki, "The Balanced Contributions Property for Equal Contributors," *Games and Economic Behavior*, Volume 108, pp. 113-124, March 2018.

Yokote Koji, Yukihiko Funaki and Yoshio Kamijo, "Coincidence of the Shapley Value with Other Solutions Satisfying Covariance," *Mathematical Social Sciences*, Volume 89, pp.1-9, September 2017.

Yokote Koji and Yukihiko Funaki, "Monotonicity Implies Linearity: Characterizations of Convex Combinations of Solutions to Cooperative Games," *Social Choice and Welfare*, Volume 49, Issue 1, pp.171–203, June 2017.

Yokote Koji, Yasushi Agatsuma and Yukihiko Funaki, "Random Reduction Consistency of the Weber Set, the Core and the Anti-Core," *Mathematical Methods of Operations Research*, Volume 85, Issue 3, pp.389–405, June 2017.

- Yohei Narita, Yoshio Kamijo and Yukihiko Funaki, “An Effect of a Procedure to Determine a Punishment System on Public Good Provision Game” (in Japanese), *Experimental Political Science (Zikken Seiji Keizai-gaku)*, Keiso Shobo 2016.
- Takaaki Abe and Yukihiko Funaki, “The Non-emptiness of the Core of a Partition Function Form Game”, *International Journal of Game Theory*, 46, pp.715-736, 2017.
- Rene van den Brink, Youngsub Chun, Yukihiko Funaki and Boram Park, “Consistency, Population Solidarity, and Egalitarian Solutions for TU-games,” *Theory and Decision*, Volume 81, Issue 3, pp. 427–447, September 2016,
- Yokote Koji, Yukihiko Funaki and Yoshio Kamijo, “A New Basis and the Shapley Value,” *Mathematical Social Sciences*, Volume 80, pp. 21–24, March 2016
- Takayuki Oishi, Mikio Nakayama, Toru Hokari and Yukihiko Funaki, “Duality and Anti-duality in TU Games Applied to Solutions, Axioms, and Axiomatizations,” *Journal of Mathematical Economics*, Volume 63, pp. 44–53, March 2016
- Nobuyuki Uto, Yoshio Kamijo and Yukihiko Funaki, “An Experimental Study of Double Track Auction,” (in Japanese), *Journal of the Operations Research Society of Japan*, Vol.59, pp.38-59, 2016.
- Jiang, Ting, Jan Potters and Yukihiko Funaki, “Eye-Tracking Social Preferences,” *Journal of Behavioral Decision Making*, Volume 29, Issue 2-3. pp. 93–350, 2016.
- Rene van den Brink and Yukihiko Funaki, “Implementation and Axiomatization of Discounted Shapley Values,” *Social Choice and Welfare*, Volume 45, Issue 2, pp 329-344, 2015,
- Róbert Ferenc Veszteg, Yukihiko Funaki and Aiji Tanaka, “The Impact of the Tohoku Earthquake and Tsunami on Social Capital in Japan: Trust before and after the Disaster,” *International Political Science Review* Vol.36, Number 2, March, pp.119-138, 2015.
- Yukihiko Funaki and Takehiko Yamato, “Stable Coalition Structures under Restricted Coalitional Changes,” *International Game Theory Review*, 16(3), 2014.
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- Yukihiko Funaki and Takehiko Yamato, “Sequentially Stable Coalition Structures under Restricted Coalitional Changes,” *International Game Theory Review*, Volume 16, Issue 03, September 2014.

- Rene van den Brink, Yukihiko Funaki, and Y. Ju, “Reconciling Marginalism with Egalitarianism: Consistency, Monotonicity, and Implementation of Egalitarian Shapley Values,” *Social Choice and Welfare*, Volume 40, Issue 3, pp.693-714, 2013. DOI: 10.1007/s00355-011-0634-2
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- Yukihiko Funaki and Rene van den Brink. “Axiomatization of a Class of Equal Surplus Sharing Solutions for TU-Games,” *Theory and Decision*, vol.67, No.3, pp.303-340, 2009.
- Y.Funaki and T.Yamato, “The Uniqueness of a Reduced Game in a Characterization of the Core in terms of Consistency,” *Advances in Dynamic Games, Applications to Economics, Management Science, Engineering, and Environmental Management*, edited by A. Haurie, S. Muto, L. Petrosjan and T. E. S. Raghavan, pp147-162, 2007.
- Y.Funaki, “How are People Thinking Deeply? : An Analysis of Strategic Thinking,” *Invitation to Experimental Economics*, edited by T.Saijo, NTT Shupan, 2007 (in Japanese).
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- Y.Funaki “The Significance and the Prospect of Experiments for Political Economy,” *Political Economy of Institution and Order*, edited by M.Kohno, K.Kiyono and S. Yabushita, pp. 88-110, Toyo Keizai Shinpo-sha, 2006 (in Japanese).
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- Y.Funaki, “A Game Theoretic Analysis to a Competition among Non-homogeneous Network Providers” (in Japanese), *Toyo Economic Studies*, Vol.23, pp81-100, 1998.
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- International Journal of Game Theory* Vol.26, pp 97-111, 1997.
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- Y.Funaki and T.Yamato, “The Tragedy of the Commons and the Core,” (in Japanese), *Toyo Economic Studies* 21, pp95-110, 1996.
- Y.Funaki, “A Cooperative Game of Network Competition,” *Toyo Economic Studies* 20, pp. 239-251, 1995.
- Y.Funaki, “Note on Reduced Game Property of Values for Three -Person Games,” *The Economic Review of Toyo University* 19, No.2, pp39-48, 1994.
- Y.Funaki, “Effects of Information Structure in R&D Competition,” *The Economic Review of Toyo University* 17, No.2, pp69-93, 1992.
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- Y.Funaki “Economies of Scale and the Solution of Convex Games,” (in Japanese), *Toyo Economic Studies* 14, pp225-242, 1989.
- Y.Funaki “The Nucleolus and the Shapley Value on Bankruptcy Problems,” (in Japanese), *Communications of the Operations Research Society of Japan* 34 No.11, pp582-587, 1989..
- Y.Funaki “A Note on Pareto Non-Optimality of a Competitive Equilibrium with Government’s Budget Surplus,” (in Japanese), *Toyo Economic Studies* 12, pp169-177, 1987.
- Y. Funaki, “Upper and Lower Bounds of the Kernel and the Nucleolus,” *International Journal of Game Theory*, Vol.15, pp121-129. 1986.
- Y. Funaki and M. Kaneko “Economies with Labor Indivisibilities Part I: Optimal Tax Schedules,” *Economic Studies Quarterly* 37, No.1, pp11-29, 1986.
- Y. Funaki and M. Kaneko “Economies with Labor Indivisibilities Part II: Competitive Equilibria under Tax Schedules,” *Economic Studies Quarterly* 37, No.3, pp199-222, 1986.
- Y.Funaki, “A Bargaining on Information with a Negative Value,” (in Japanese) *The Economic Review of Toyo University* 12, No.1, pp1986.
- Y.Funaki “Competitive Equilibria and Government’s Finances in Economies with Income Taxes,”

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Y.Funaki “The Core of a Cooperative Games and the Decisions of OPEC Countries,” (in Japanese), *Communications of the Operations Research Society of Japan* 26, No.10, pp.585-589, 1981..

Conference Presentations (from 2008):

Yukihiko Funaki: Unstructured Bargaining Experiment on Three-person Cooperative Games, EAGT2019, March 8, 2019 Fuzhou, China, as Keynote Speaker.

Yukihiko Funaki: Unrestricted Bargaining Experiment on Three-person Cooperative Games, The Lisbon Meetings in Game Theory and Applications, October 25-27, 2018 Lisbon, Portugal

Yukihiko Funaki: Relationally equal treatment of equals characterizes combinations of values for cooperative games, The 14th Meeting of the Society for Social Choice and Welfare. June 14-17, 2018, Seoul, South Korea

Yukihiko Funaki: Unrestricted Bargaining Experiment on 3-Person Cooperative Games, SAET2018, June 11-13, 2018, NTU, Taipei

The Core and Stable Coalition Structures by Unbinding Deviation - with Cournot Oligopoly Game, EAGT2017, July 31 to August 2 2017, NUS, Singapore, Singapore.

The Core and Stable Coalition Structures by Unbinding Deviation -with Cournot Oligopoly Game, SING13, July 5th to 7th 2017, Dauphine University, Paris, France.

Yukihiko Funaki The balanced contribution property for equal contributors, SING12, July 11th to 13th 2016. Odense, Denmark.

Yukihiko Funaki: The balanced contribution property for equal contributors, GAMES2016, July 24th to 28th 2016. Maastricht. Netherlands.

Yukihiko Funaki: A Characterization of Convex Combinations of Egalitarian Shapley Value and Consensus Value. UECE LISBON MEETINGS, November 5th-7th, 2015. Lisbon, Portugal.

Yukihiko Funaki: A Characterization of Convex Combinations of Egalitarian Shapley Value and Consensus Value. East Asian Game Theory Conference 2015 (EAGT2015), August 24 to 26, 2015, Waseda University, Tokyo, Japan,

Yukihiko Funaki and Koji Yokote: A Characterization of Convex Combinations of Egalitarian Shapley Value and Consensus Value, Joint conferences on “Logic, Game Theory, and Social Choice 8” and “The 8th Pan-Pacific Conference on Game Theory” (LGS 8 & 8 PPCGT), 19-21 May 2015, Institute of Economics, Academia Sinica, Taipei, Taiwan.

Yukihiko Funaki and Koji Yokote: Several Bases of a Game Space and an Application to the Shapley Value. 7-9 July 2014, 10th Spain-Italy-Netherlands Meeting on Game Theory (SING 10), AGH University of Science and Technology. Kraków, POLAND

Yukihiko Funaki: Strategic thinking in private information games; a comparison of eye-tracking and mouse-tracking. ESA 2014, 27-29 June 2014, International Meetings, Hawaii Convention Center, Hawaii,

USA.

Yukihiko Funaki: Punishment in Public Goods Games in Japan, 13th Public Economic Theory Annual Conference, 5 July 2013, CATÓLICA-LISBON University Lisbon Portugal.

Yukihiko Funaki: The Shapley value: Linear basis approach, 9th Spain-Italy-Netherlands Meeting on Game Theory (SING9), 8 July 2013, University of Vigo, Vigo, Spain,

Yukihiko Funaki: An Experimental Study of Double-Track Auction, 8th Spain, Italy, Netherlands Meeting on Game Theory (SING8), 18 July 2012. Corvinus University of Budapest, Hungary

Yukihiko Funaki: An Experimental Study of Double-Track Auction, First Caribbean Game Theory Conference, 23-25 January 2012, Curaçao, Netherlands Antilles

Yukihiko Funaki: von Neumann Stable Set of a 3-person Coalition Formation Game –Experimental Results, 7th Spain, Italy, Netherlands Meeting on Game Theory (SING7), 18-21 July 2011, Amsterdam, the Netherlands

Yukihiko Funaki: Is There a More Likely Agreement When The Core Is Empty? Experimental Evidence from a 3-persons Coalition Formation Game, the Sixth Pan-Pacific Conference on Game Theory March 1-3, 2011, Tokyo Tech, Tokyo

Yukihiko Funaki: Is There a More Likely Agreement When The Core Is Empty? Experimental Evidence from a 3-persons Coalition Formation Game, Asia – Pacific ESA Conference (AP-ESA2011), 11-13 February 2011, Kuala-Lumpur, Malaysia

Kongo, Takumi, Yukihiko Funaki, Rodica Branzei and Stef Tijs: A Non-Cooperative and an Axiomatic Characterization of the AL-Value, *EURO 2010 Conference* 11-14 July, 2010, Lisbon, Portugal

Yukihiko Funaki, Jana Vyrasterkova, Daan van Soest,: Coalition Formation in a Common Pool Resource Game: an Experiment Logic, Game Theory, and Social Choice Conference 6, 26-29 August 2009, Tsukuba, Japan

Mischel Grabisch and Yukihiko Funaki : A Coalition Formation Value for Games in Partition Function Form, 6th Pan-Pacific Conference on Game Theory, 17-19 August 2009, Taipei, Taiwan.

Mischel Grabisch and Yukihiko Funaki: A Coalition Formation Value for Games in Partition Function Form Game, Far East and South Asia Meeting of the Econometric Society, 3-5 August 3-5, 2009. Tokyo, Japan

Mischel. Grabisch, Yukihiko Funaki: A Coalition Formation Value for Games in Partition Function Form Game, European Conference on Operations Research, 5-8 July 2009, Bonn, Germany

Rene van den Brink, Yukihiko Funaki: Axiomatizations and Implementation of Discounted Shapley Values, 5th Spain, Italy, Netherlands Meeting on Game Theory (SING5), 1-3 July 2009, Amsterdam, the Netherlands

Yukihiko Funaki: Leximals, the Lexicore and the Average Lexicographic Value, The 3rd World Congress of International Game Theory Society (Games 2008), 8-12 July 2008. North-Western University, Chicago, USA.