

VITAE

June 10, 2021

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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 University, Japan, as Chair

Dr. Kohei Kamaga, Waseda University, 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
Editorial Board, Mathematical Social Sciences
Editorial Board, Journal of Mathematical Economics

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:

Zhengxing Zou, René van den Brink, Yukihiro Funaki, "Compromising between the Proportional and Equal Division Values: Axiomatization, Consistency and Implementation," to appear in *Journal of Mathematical Economics*, 2021. DOI:10.2139/ssrn.3684658

Takaaki Abe, Yukihiro Funaki, "The unbinding core for coalitional form games," *Mathematical Social Sciences*, Volume 113, pp 39-42, September 2021. DOI:10.1016/j.mathsocsci.2021.04.007

Zhengxing Zou, Rene van den Brink, Youngsub Chun, Yukihiro Funaki, "Axiomatizations of the proportional division value," *Social Choice and Welfare*, January 2021. DOI:10.1007/s00355-020-01299-3, 2020.

Adrian Penalver, Nobuyuki Hanaki, Eizo Akiyama, Yukihiro Funaki and Ryuichiro Ishikawa, "A quantitative easing experiment," *Journal of Economic Dynamics and Control*, Volume 119, October 2020, DOI:10.1016/j.jedc.2020.103978

Koji Yokote, Takumi Kongo and Yukihiro Funaki, "Redistribution to the less productive: Parallel characterizations of the egalitarian Shapley and consensus values," *Theory and Decision*, November 2020. DOI:10.1007/s11238-020-09781-1

Peter Borm, Yukihiro Funaki, Yuan Ju, "The Balanced Threat Agreement for Individual Externality Negotiation Problems," *Homo Oeconomicus*, Volume 37, pp. 67-85, May 2020. DOI:10.1007/s41412-020-00097-7

Takaaki Abe and Yukihiro Funaki, "The Projective Core of Symmetric Games with Externalities,"

International Journal of Game Theory, Volume 50, pp. 167-183, October 2020.

DOI:10.1007/s00182-020-00745-x

Toru Hokari, Yukihiko Funaki and Peter Sudholter, "Consistency, Anonymity, and the Core on Domain of Convex Games," *Review of Economic Design*, Volume 24, pp.187-197, June 2020.

DOI:10.1007/s10058-020-00231-6

Yasushi Asako, Yukihiko Funaki, Kozo Ueda and Nobuyuki Uto, "(A)symmetric Information Bubbles: Experimental Evidence," *Journal of Economic Dynamics and Control*, Vol. 110, January 2020.

DOI:10.1016/j.jedc.2019.103744

Yukihiko Funaki, Harold Houba and Evgenia Motchenkova, "Market power in bilateral oligopoly markets with non-expandable infrastructures," *International Journal of Game Theory*, September 2019.

DOI:10.1007/s00182-019-00695-z

Junnosuke Shino, Yukihiko Funaki and Nobuyuki Uto, "Vulnerability of fixed-rate funds-supplying operations to overbidding: An experimental approach," *Global Finance Journal*, August 2019.

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Takumi Kongo, Koji Yokote and Yukihiko Funaki, "Relationally equal treatment of equals and affine combinations of values for TU games," *Social Choice and Welfare*, Vol. 53, pp.197-212, 2019.

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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.
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- 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
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- 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.
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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.
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- Y.Funaki, “A Cooperative Game of Network Competition,” *Toyo Economic Studies* 20, pp. 239-251, 1995.
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- 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.
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- 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,” (in Japanese), *Toyo Economic Studies* 11, pp65-84, 1985.

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: Several Solutions for TU Games Based on Proportionality, EAGT2021, April 24-25, 2021, Beijing, China, as Keynote Speaker.

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.