

1. 学歴

1966年 3月 慶応義塾大学経済学部卒業
1966年 4月 慶応義塾大学大学院経済学研究科修士課程入学
1968年 3月 経済学修士 (慶応義塾大学)
1968年 3月 慶応義塾大学大学院経済学研究科修士課程修了
1970年 9月 カリフォルニア大学バークレー校博士課程入学
1973年 6月 数学修士 (M.A.) (カリフォルニア大学バークレー校)
1974年 12月 カリフォルニア大学バークレー校博士課程修了
1974年 12月 経済学博士 (Ph.D.) (カリフォルニア大学バークレー校)

2. 職歴・研究歴

1974年 10月 1975年 6月 CORE, カトリック・ルーバン大学 (ベルギー) 客員研究員
1975年 7月 1976年 6月 ノースウェスタン大学経済学部講師・
ノースウェスタン大学経済経営数理研究センター研究員
1976年 7月 1980年 8月 カーネギーメロン大学産業経営大学院助教授
1980年 8月 1983年 3月 アイオワ大学経済学部および数学部準教授
1983年 4月 1986年 12月 同 教授
1987年 1月 2003年 12月 オハイオ州立大学経済学部教授
(2001年7月1日 2002年9月30日:無給リーヴ・オヴ・アブセンス)
2001年 7月 2002年 9月 一橋大学大学院経済学研究科教授 (客員)
2004年 1月 オハイオ州立大学経済学部名誉教授
2005年 4月 一橋大学大学院経済学研究科教授

3. 学内教育活動

A. 担当講義名

(b) 大学院

上級ミクロ経済学

B. ゼミナール

大学院

C. 講義およびゼミナールの指導方針

「上級ミクロ経済学」の講義では新古典派理論及びそのゲーム論的基礎を簡潔に紹介。モデルの特性、公準の意味、本質的な結論、新古典派理論の妥当性と限界、応用の可能性の理解に重点を置く。毎週の take-home exams を通じて、自分自身で考えて問題を解く態度を身につけるような訓練。

「大学院ゼミナール」では学問的価値のあるオリジナルな研究成果を生み出すことを究極の目的とする。平成 18

年度のゼミでの具体的な活動は, 新著, Tatsuro Ichiishi and Akira Yamazaki, *Cooperative Extensions of the Bayesian Game*, World Scientific, 2006 に添って, 関連論文の検討; Convex analysis の演習; 個人研究の成果についての報告。

4. 主な研究テーマ

企業の理論, 一般均衡分析, ゲーム理論, 不動点定理。私は企業独自の資源配分機構と(新古典派的)市場の資源配分機構との同時作用の理解を追求して来た。私は前者の機構を, プレーヤー達が戦略を調整し合うことの出来る一般化された戦略型ゲームとして定式化した。この経済学的問題を解く為に, 私は cooperative extensions of the noncooperative game という分野を開拓し, その基礎となる不動点理論にまで遡って考察をも深めた。最近では, cooperative extensions of the Bayesian game (=Bayesian extensions of a cooperative extension of the non-cooperative game) に就いて研究を進めている。

5. 研究活動

A. 業績

(a) 著書・編著

[著書]

Game Theory for Economic Analysis, New York/London: Academic Press, 1983. [Errata]

The Cooperative Nature of the Firm, Cambridge, U.K./New York/Victoria: Cambridge University Press, 1993 [Errata]

Microeconomic Theory, Oxford, U.K./Cambridge, MA: Blackwell Publishers, 1997. [Errata]

Cooperative Extensions of the Bayesian Game, with Akira Yamazaki, Singapore/Hackensack, NJ/London, U.K.: World Scientific, 2006.

[編著]

Game Theory and Applications, edited with Abraham Neyman and Yair Tauman, San Diego, CA/London, U.K.:Academic Press, 1990.

Markets, Games, and Organizations: Essays in Honor of Roy Radner, edited with Thomas Marschak, Berlin/New York/Heidelberg: Springer-Verlag, 2002.

(b) 論文(査読つき論文には*)

* "A Note on a Covariance Matrix with its Application to the Two-Parameter Hypothesis on Risky-Asset Choice," *Review of Economic Studies* 36 (1969), 254-256.

「フォン・ノイマン・モデル」, 『経済学年報』 11 (1969), 175-255 頁。

* "Economies with a Mean Demand Function," *Journal of Mathematical Economics* 3 (1976), 167-171.

* "Coalition Structure in a Labor-Managed Market Economy," *Econometrica* 45 (1977), 341-360.

Reprinted in: David L. Prychitko and Jaroslav Vanek (eds.), *Producer Cooperatives and Labor-Managed Systems, Volume I: Theory*, pp. 229-248. Edward Elgar Publishing Limited, 1996.

* "Some Theorems on the Core of a Non-Sidepayment Game with a Measure Space of Players," with Shlomo Weber, *International Journal of Game Theory* 7 (1978), 95-112.

「数理経済学 III」, 熊谷尚夫, 篠原三代平編 『経済学大辞典 III』, 684-704 頁。東洋経済新報社 1980.

* "Super-Modularity: Applications to Convex Games and to the Greedy Algorithm for LP," *Journal of Economic Theory* 25 (1981), 283-286.

- * "On the Knaster-Kuratowski-Mazurkiewicz-Shapley Theorem," *Journal of Mathematical Analysis and Applications* 81 (1981), 297-299.
- * "A Social Coalitional Equilibrium Existence Lemma," *Econometrica* 49 (1981), 369-377.
- "Non-Cooperation and Cooperation" in: M. Deistler, E. Furst and G. Schwodiauer (eds.), *Games, Economic Dynamics, Time Series Analysis (A Symposium in Memorial Oskar Morgenstern)*, pp.14-48. Physica-Verlag, 1982.
- * "Management Versus Ownership, I," *International Economic Review* 23 (1982), 323-336.
- * "The Topological Core of a Game Without Sidepayments," with Juan Jorge Schaffer, *Economic Studies Quarterly* 34 (1983), 1-8.
- * "Decentralization for the Core of a Production Economy with Increasing Returns," with Martine Quinzii, *International Economic Review* 24 (1983), 397-412.
- * "Management Versus Ownership, II," *European Economic Review* 27 (1985), 115-138.
- "The Effectivity Function Approach to the Core" in: Werner Hildenbrand et al. (eds.), *Contributions to Mathematical Economics (in Honor of Gerard Debreu)*, pp. 269-293. North-Holland, 1986.
- * "Stable Extensive Game Forms with Perfect Information," *International Journal of Game Theory* 15 (1986), 163-174.
- * " -Stable Extensive Game Forms," *Mathematics of Operations Research* 12 (1987), 626-633.
- "Strong Equilibria" in: Bor-Luh Lin and Stephen Simons (eds.), *Nonlinear and Convex Analysis (Proceedings in Honor of Ky Fan)*, pp. 107-125, Marcel Dekker, 1987.
- * "Strong Equilibria of a Repeated Game with Randomized Strategies," *Mathematical Social Sciences* 14 (1987), 201-224.
- * "Core-Like Solutions for Games with Probabilistic Choice of Strategies," *Mathematical Social Sciences* 15 (1988), 51-60.
- * "Alternative Version of Shapley's Theorem on Closed Coverings of a Simplex," *Proceedings of the American Mathematical Society* 104 (1988), 759-763.
- * "On Peleg's Theorem for Stability of Convex Effectivity Functions: An Alternative Proof and Applications to Authority Structures," *European Journal of Political Economy* 5 (1989), 149-160. In: Special Issue edited by Murat R. Sertel and Alfred Steinherr on Economic Design.
- * "Theorems on Closed Coverings of a Simplex and Their Applications to Cooperative Game Theory," with Adam Idzik, *Journal of Mathematical Analysis and Applications* 146 (1990), 259-270.
- * "Comparative Cooperative Game Theory," *International Journal of Game Theory* 19 (1990), 139-152.
- * "A Contribution to the Macro Theory of Comparative Economic Systems," *Journal of Comparative Economics* 14 (1990), 15-32.
- * "Closed Covers of Compact Convex Polyhedra," with Adam Idzik, *International Journal of Game Theory* 20 (1991), 161-169.
- * "The Cooperative Nature of the Firm: Narrative," *Managerial and Decision Economics* 14 (1993), 383-407. In: Special Issue edited by Koji Okuguchi on Labor-Managed Firms Under Imperfect Competition (and Related Problems).
- "Outline of Implications of the Nature of the Firm," *Transactions of the Eleventh Prague Conference on Information Theory, Statistical Decision Functions and Random Processes, held at Prague, from August 27 to 31, 1990*, pp. 103-120. Academia (Publishing House of the Czechoslovak Academy of Sciences), 1992. Revised version: "

- Outline of the Implications of the Cooperative Nature of the Firm" in: Robert P. Gilles and Pieter H. M. Ruys (eds.), *Imperfections and Behavior in Economic Organizations*, pp. 229-256. Kluwer Academic Publishers, 1994.
- * "Similarity and Preferences in the Space of Simple Lotteries, " with Jose Maria Aizpurua, Jorge Nieto and Jose Ramon Uriarte, *Journal of Risk and Uncertainty* 6 (1993), 289-297.
 - * "Cooperative Processing of Information via Choice at an Information Set, " with Adam Idzik and Jingang Zhao, *International Journal of Game Theory* 23 (1994), 145-165.
- "Cooperative Processing of Information, " in: Toru Maruyama and Wataru Takahashi (eds.), *Nonlinear and Convex Analysis in Economic Theory*, Lecture Notes in Economics and Mathematical Systems, No. 419, pp.101-117. Springer-Verlag, 1995.
- * "Bayesian Cooperative Choice of Strategies, " with Adam Idzik, *International Journal of Game Theory* 25 (1996), 455-473.
 - * "Cooperative Interim Contract and Re-Contract: Chandler's M-Form Firm, " with Murat Sertel, *Economic Theory* 11 (1998), 523-543.
 - * "A Profit-Center Game with Incomplete Information, " with Roy Radner, *Review of Economic Design* 4 (1999), 307-343.
 - * "Equitable Allocation of Divisible Goods, " with Adam Idzik, *Journal of Mathematical Economics* 32 (1999), 389-400.
 - * "Market Allocation of Indivisible Goods, " with Adam Idzik, *Journal of Mathematical Economics* 32 (1999), 457-466.
 - * "Job Matching: A Multi-Principal, Multi-Agent Model, " with Semih Koray, *Advances in Mathematical Economics* 2 (2000), 41-66.
- "New Extensions of the K-K-M Type Covering Lemma with Applications to Economics, " Proceedings of the Workshop in Mathematical Economics, Research Institute for Mathematical Sciences, Kyoto University, December 10-12, 1999, Suri Kagaku Kokyu Roku No. 1165, pp. 36-58. Kyoto: Suri Kagaku Kokyu Roku Kanko Kai, August 2000.
- * "On a Covering Theorem, " with Adam Idzik, *Economic Theory* 19 (2002), 833-838.
- "Introduction to Cooperative Extensions of the Bayesian Game, " with Akira Yamazaki, Proceedings of the Workshop in Mathematical Economics, Research Institute for Mathematical Sciences, Kyoto University, December 7-9, 2001, Suri Kagaku Kokyu Roku No. 1264, pp.1-26. Kyoto: Suri Kagaku Kokyu Roku Kanko Kai, May 2002.
- "A Large Bayesian Economy and Incentive Compatible Core Contracts, " with Akira Yamazaki, Proceedings of the Workshop in Mathematical Economics, Research Institute for Mathematical Sciences, Kyoto University, December 7-9, 2001, Suri Kagaku Kokyu Roku No. 1264, pp.45-54. Kyoto: Suri Kagaku Kokyu Roku Kanko Kai, May 2002.
- * "Interim Core Concepts for a Bayesian Pure Exchange Economy, " with Akira Yamazaki, *Journal of Mathematical Economics* 40 (2004), 347-370.

(d) その他

「経済学における価格理論的アプローチとゲーム理論的アプローチの競合と共生： パネル・ディスカッション」(日本経済学会 2001 年度大会, 一橋大学, 10 月 7 日。山崎昭(座長), 市石達郎, 金子守, 神取道宏, 八田達夫), 大塚啓二郎, 中山幹夫, 福田慎一, 本多祐三編 『現代経済学の潮流 2002』, 185-214 頁。東洋経済新報社 2002。

B. 最近の研究活動

(a) 国内外学会発表

The Spring 2002 Meeting of the Japanese Economic Association, Otaru University of Commerce, Japan, June 15, 2002. Invited Special Report, "Cooperative Extensions of the Noncooperative Game. "

Kyoto University, Kyoto Institute of Economic Research, Kyoto, Japan, September 6, 2002. "Preliminary Results for Cooperative Extensions of the Bayesian Game. "

The First Illinois Economic Theory Workshop, University of Illinois at Urbana-Champaign, April 18-20, 2003. Presented a Paper, "Interim Core Concepts for a Bayesian Pure Exchange Economy. "

C. 受賞

Excellence in Economics Instruction (Faculty Award), The Undergraduate Economics Society, The Ohio State University. 1993年5月14日.

日経経済図書文化賞。日本経済新聞, 日本経済研究センター。(著書, Tatsuhiro Ichiishi, *The Cooperative Nature of the Firm*, Cambridge, U.K.: Cambridge University Press, 1993 に対する賞) 1994年11月7日。

7. 学外活動

2000 - present. Series Editor, Mathematical Economics and Game Theory, a monograph series from World Scientific Co Ltd.

1997 - present. Associate Editor, Review of Economic Design (formerly Economic Design).

1997 - present. Editorial Board, International Journal of Game Theory.

1998 - present. Editorial Board, Advances in Mathematical Economics.

1998 - present. Editorial Board, Games and Economic Behavior.