

March 2013

CURRICULUM VITAE

Tatsuro ICHIISHI

CURRENT APPOINTMENT: Professor Emeritus,
Department of Economics,
The Ohio State University.

EMAIL ADDRESS: ichiishi.1@osu.edu

FIELD SPECIALIZATION: Game theory,
Mathematical Economics,
Microeconomic Theory.

PERSONAL DATA: Born Dec 16, 1943 in Seoul, S. Korea.
Japanese citizen, US permanent resident.
Married.

EDUCATIONAL BACKGROUND

1962 – 1968 Keio University, Tokyo, Japan.
B.A. in Economics, March 1966.
M.A. in Economics, March 1968.

1970 – 1974 University of California, Berkeley.
M.A. in Mathematics, June 1973.
Ph.D. in Economics, December 1974.

ACADEMIC APPOINTMENTS

1968 – 1973 Joshu (equivalent of Research Associate), Department
of Economics, Keio University, Tokyo, Japan (on leave:
1970-1973).

- 1974 – 1975 Research Associate, Center for Operations Research and Econometrics, Université Catholique de Louvain, Heverlee, Belgium.
- 1975 – 1976 Lecturer in Economics, College of Arts and Sciences, Northwestern University.
Research Associate, The Center for Mathematical Studies in Economics and Management Science, Northwestern University.
- 1976 – 1978 Assistant Professor of Economics, Graduate School of Industrial Administration, Carnegie-Mellon University.
- 1978 – 1980 Assistant Professor of Economics and Mathematics, Graduate School of Industrial Administration, and Department of Mathematics, Carnegie-Mellon University.
- 1980 – 1983 Associate Professor of Economics and Mathematics, Department of Economics, and Department of Mathematics, The University of Iowa.
- 1982 – 1986 Affiliated with the Interdisciplinary Program in Applied Mathematics, The University of Iowa.
- 1983 – 1986 Professor of Economics and Mathematics, Department of Economics, and Department of Mathematics, The University of Iowa.
- 1987 – 1994 Professor of Economics, Department of Economics, The Ohio State University (on sabbatical leave: 1993-1994).
- 1994 – 2003 Professor of Economics and Mathematics, Department of Economics, and Department of Mathematics, The Ohio State University (on unpaid leave of absence: 2001-2002).
- Fall 1997 Visiting Professor, İktisat Bölümü (Department of Economics), Bilkent Üniversitesi, Ankara, Turkey.
- Nov-Dec 1999 Guest Professor, Faculty of Economics, Keio University, Tokyo, Japan.
- 2001 – 2002 Professor of Economic Theory, Graduate School of Economics, Hitotsubashi University, Tokyo, Japan (visiting position).

- Fall 2001 Part-time Lecturer, Faculty of Economics, Keio University, Tokyo, Japan.
- 2004 – present Professor Emeritus, Department of Economics, The Ohio State University.
- 2005 – 2007 Professor of Economic Theory, Graduate School of Economics, Hitotsubashi University, Tokyo, Japan.

ACADEMIC SHORT VISITS

- Sept-Oct 1988 Institut für Mathematische Wirtschaftsforschung and Fakultät für Wirtschaftswissenschaften, Universität Bielefeld, West Germany.
- Nov-Dec 1988 Departamento de Análisis Económico, Universidad del País Vasco - Euskal Herriko Unibertsitatea, Spain.
- Sept 1-8, 1990 Instytut Podstaw Informatyki, Polskiej Akademii Nauk (Polish Academy of Sciences), Poland.
- Sept 11-19, 1993 Instytut Podstaw Informatyki, Polskiej Akademii Nauk (Polish Academy of Sciences), Poland.
- May-June 1994 DEA Modélisation et Méthode Mathématique en Economie, Université de Paris I, Panthéon-Sorbonne, France.
- Dec 10-17, 1995 Department of Economics, Boğaziçi Üniversitesi, Turkey.
- June 13-25, 1996 Instytut Podstaw Informatyki, Polskiej Akademii Nauk (Polish Academy of Sciences), Poland.
- Dec 16, 2002 – Jan 4, 2003 Graduate School of Economics, Hitotsubashi University, Tokyo, Japan.
- June 15 – Sept. 15, 2003 Graduate School of Economics, Hitotsubashi University, Tokyo, Japan.

WORK FOR ACADEMIC ORGANIZATION

- April 2004 – March 2005 Director, Research Center for Mathematical Economics, Japan.

EDITORIAL WORK

- 2000 – 2007 Series Editor, *Mathematical Economics and Game Theory*, a monograph series from World Scientific Co Ltd.
- 1997 – 2012 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 Advisory Editor, *Games and Economic Behavior*.
- 2008 – present Editorial Advisory Board, *Mathematical Economics and Game Theory*, a monograph series from World Scientific Co Ltd.

AWARDS

- May 14, 1993 Excellence in Economics Instruction (Faculty Award), The Undergraduate Economics Society, The Ohio State University.
- Nov 7, 1994 Nikkei · Keizai Tosho Bunka Shô (Nikkei Prize for Economics Literature), Nihon Keizai Shinbun & Nihon Keizai Kenkyû Center (Japan Center for Economic Research), Japan. Award for the book, Tatsuro Ichiishi, *The Cooperative Nature of the Firm*, Cambridge, U.K.: Cambridge University Press, 1993.
- July 2011 Economic Theory Fellow, Society for the Advancement of Economic Theory.

PUBLICATIONS

Books:

Game Theory for Economic Analysis, New York: Academic Press, 1983.

The Cooperative Nature of the Firm, Cambridge, U.K.: Cambridge University Press, 1993. Re-published in paper back by the same publisher in 2008.

Microeconomic Theory, Oxford, U.K.: Blackwell Publishers, 1997.

Cooperative Extensions of the Bayesian Game, with Akira Yamazaki, Singapore: World Scientific Inc. Pte. Co., 2006.

Edited Books, Edited Journal Issue:

Game Theory and Applications, edited with Abraham Neyman and Yair Tauman, New York: Academic Press, 1990.

Special issues in honor of Roy Radner, edited with Thomas Marschak, *Review of Economic Design* **6** Nos. 2, and 3-4, 2001.

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

Journal Articles:

“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.

“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. Glos, U.K.: 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.
- “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.
- “Super-Modularity: Applications to Convex Games and to the Greedy Algorithm for LP,” *Journal of Economic Theory* **25** (1981), 283-286.
- “Management Versus Ownership, I,” *International Economic Review* **23** (1982), 323-336.
- “The Topological Core of a Game Without Sidepayments,” with Juan Jorge Schäffer, *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.
- “Stable Extensive Game Forms with Perfect Information,” *International Journal of Game Theory* **15** (1986), 163-174.
- “ α -Stable Extensive Game Forms,” *Mathematics of Operations Research* **12** (1987), 626-633.
- “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).
- “Similarity and Preferences in the Space of Simple Lotteries,” with José María Aizpurua, Jorge Nieto and José Ramón Uriarte, *Journal of Risk and Uncertainty* **6** (1993), 289-297.
- “Bayesian Cooperative Choice of Strategies,” with Adam Idzik, *International Journal of Game Theory* **25** (1996), 455-473.
- “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.
- “A Profit-Center Game with Incomplete Information,” with Roy Radner, *Review of Economic Design* **4** (1999), 307-343.
- “Cooperative *Interim* Contract and Re-Contract: Chandler’s M-Form Firm,” with Murat Sertel, *Economic Theory* **11** (1998), 523-543.
- “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 Koyay, *Advances in Mathematical Economics* **2** (2000), 41-66.
- “On a Covering Theorem,” with Adam Idzik, *Economic Theory* **19** (2002), 833-838.
- “*Interim* Core Concepts for a Bayesian Pure Exchange Economy,” with Akira Yamazaki, *Journal of Mathematical Economics* **40** (2004), 347-370.

Other Articles:

- “Sûri Keizai-gaku, III” (“Mathematical Economics, III,” in Japanese) in: Hisao Kumagai, *et al.* (eds.), *Keizai-gaku Dai-jiten* (Encyclopedia in Economics) *Volume 3*, pp. 684-704. Tokyo: Toyo-Keizai (Oriental Economist), 1980.
- “Non-Cooperation and Cooperation” in: M. Deistler, E. Fürst and G. Schwödiauer (eds.), *Games, Economic Dynamics, Time Series Analysis (A Symposium in Memorial Oskar Morgenstern)*, pp. 14-48. Vienna/Würzburg: Physica-Verlag, 1982.
- “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. Amsterdam/New York: North-Holland, 1986.
- “Strong Equilibria” in: Bor-Luh Lin and Stephen Simons (eds.), *Nonlinear and Convex Analysis (Proceedings in Honor of Ky Fan)*, pp. 107-125. New York: Marcel Dekker, 1987.
- “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. Heidelberg/Berlin: Springer-Verlag, 1995.
- “Cooperative Extensions of the Bayesian Game,” with Akira Yamazaki, *Advances in Mathematical Economics* **8** (2006), 273-296. In: Proceedings of the Third International Conference of Research Center for Mathematical Economics.

Panel Discussion:

“Keizai-gaku ni Okeru Kakaku-ron-teki Apurôchi to Gêmu-ron-teki Apurôchi no Kyôgô to Kyôsei” (“Conflict and Coexistence of the Price Theoretic Approach and the Game Theoretic Approach in Economics,” in Japanese), Panel Discussion Session at the Fall 2001 Meeting of Japanese Economic Association, Hitotsubashi University, October 7-8, 2001, Chapter 8 of: Keijirô Ôtsuka, Mikio Nakayama, Shin-ichi Fukuda, and Yûzô Honda, eds., *Gendai Keizai-gaku no Chôryû, 2002* (*Trend in Modern Economics, 2002*), pp. 185-214. Tokyo: Tôyô Keizai Shinpôsha (Oriental Economist).