Toshifumi Kuroda

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Faculty of Economics

Tokyo Keizai University (Tokyo University of Economics)

Associate Professor, Ph.D. (Economics)

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Education:

2003 - 2009, Kyoto University, Graduate School of Economics, Kyoto, Japan

M.A. degree in Economics, March 2005

Ph.D. in Economics, March 2009

(Ph.D. thesis: Economic analysis of Network Industries)

1999 – 2003, Kyoto University, Faculty of Economics, Kyoto, Japan

B.A. degree in Economics, March 2003

Employment:

Tokyo Keizai University (Tokyo University of Economics), Faculty of Economics, Tokyo, Japan

Associate Professor, April 2018- Present

Full-Time Lecturer with tenure, April 2009 – March 2018

Japan Society for the Promotion of Science

Research Fellow, 2007 – 2009

InfoCom Research, Inc, Tokyo, Japan

Consultant, April 2005 - March 2007

Other professional appointments:

2021 – 2026 : Board member of Monitoring Meeting on the Transparency and Fairness of Digital Platforms.

2021 - 2023 : Economist, Digital Economy Division/ Digital Market Policy Office, Commerce and Information Policy Bureau, Ministry of Economy, Trade and Industry (METI)

2019 : Member of Study Group on Improvement of Trading Environment surrounding Digital Platforms, working group for ensuring transparency and fairness.

2015 - : Board member of Japan Broadcasting Corporation's committee on the Internet Business

2014 - 2016 : Visiting Scholar, Department of Media and Information at Michigan State University

2013 - 2015: Research Fellow, CPRC (Competition Policy Research Center, Japan Fair Trade Commission)

2012: Committee Member, JIPDEC (Japan Institute for Promotion of Digital Economy and Community)

2011 – 2014, 2016-: Research Fellow, Project center, Faculty of Economics, Kyoto University

2011 – 2014, 2018-: Research Fellow, IICP (Institute for Information and Communications Policy, Ministry of Internal Affairs and Communications)

Research Areas:

Industrial Organization, Telecommunications Economics, Development Economics, Political

Economy

Professional Membership:

Japan Society of Public Utility Economics (2005 -), Japanese Economic Association (2008 -), Japan Society of Information and Communication Research (2010 -), Econometric Society (2010 -), European Association for Research in Industrial Economics (2012 -), Japan Statistical Society (2013-), EUROPEAN ECONOMIC ASSOCIATION (2015-), American Economic Association (2018-)

Published Papers

“Relevant markets and market power of mobile apps,” Japan and the World Economy, vol 67, September 2023. (with Kohei Kawaguchi and Susumu Sato)

“Identifying the effect of mobile operating systems on the mobile services market,” Information Economics and Policy, Volume 46, March 2019, Pages 86-95. (with Teppei Koguchi and Takanori Ida)

“Evaluation of market outcomes of 3G spectrum allocation by auctions and beauty contests,” Telecommunications Policy, Volume 41, Issues 5–6, June 2017, Pages 341-354. (with Maria Baquero)

"Institutions and Cultural Heterogeneity as Determinants of National Income: A Random-coefficients Stochastic Frontier Model, " Review of Development Economics, vol 19, Issue 3, 710-724, 2015. (with Maria Baquero, Takanori Ida)

“Treatment effects analysis of the third generation mobile phones spectrum auction,” Journal of Information & Communication Research, vol. 100, 49-59, 2011. (with Maria Baquero) (In Japanese)

"Optimum Pricing Strategy for Fixed-line Internet and Mobile Phone Services: A Two-sided Market Approach," Empirical Economics Letters vol.10.8, 747-756, 2011. (with Takanori Ida)

“A Two-Sided Market Model Analysis of the Price Structure in Japanese Mobile Contents Platforms,” The Journal of Tokyo Keizai University : Economics, vol 267, 171-189, 2010. (In Japanese)

“Estimating a structural model of Japanese mobile platforms,” Journal of Public Utility Economics, vol 61, issue 3, 1-12, 2010. (In Japanese)

“Estimation of the indirect network effects on the broadband market,” Journal of Public Utility Economics, vol 60, issue 4, 11-22, 2009. (In Japanese)

"Discrete Choice Model Analysis of Demand for Mobile Telephone Service in Japan", Empirical Economics, vol.36.1: 65-80, 2009. (with Takanori Ida)

"Discrete Choice Analysis of Demand for Broadband in Japan", Journal of Regulatory Economics, vol.29.1: 5-22, 2006. (with Takanori Ida)

Working Papers

"Does net neutrality contribute to the migration to FTTH? A lesson from Japan’s experience", under revision.

"Forecasting Demand Substitutability of Mobile Handsets in Japan: Feature Phone, Smart Phone, and Tablet PC,” (with Takanori Ida), under revision.

“Bundling Information Goods Under “Breakeven” Price”, submitted.

“Analysis of the role of international network effects on the diffusion of 3G mobile communication networks (with Maria Baquero)”

“The Impact of Asymmetric Regulation on Product Bundling: The Case of Fixed Broadband and Mobile Communications in Japan” (with Teppei Koguchi, Takanori Ida)

Does the usage of TV streaming on the Internet bring about new functions to the public service broadcaster? : Evidence from a randomized field experiment, under revision (with

Daido Kido, Yoshiharu Ichikawa)
“Public Media Do Serve The State: A Field Experiment” (with Shuhei Kitamura)
“An Empirical Model of Mobile App Competition”(previously circulated under the title of “Merger Analysis in the App Economy: An Empirical Model of Ad-Sponsored Media”), (with Kohei Kawaguchi and Susumu Sato)
“The Welfare Loss of Information Manipulation on Consumers in Online Retail: Evidence from Incentive-Compatible Experiments” (with Hajime Oiso, Hirohide Sakaguchi, and Takanori Ida)
“Seller’s Competitive (Dis)advantage in the Market and Manipulation of Own Reputation: A Laboratory Experiment” (with Takao Kusakawa and Yuta Yasui)

Work In Progress

The Welfare Loss of Information Manipulation on Consumers in Online Retail: Evidence from Incentive-Compatible Experiments (with Hajime Oiso, Hirohide Sakaguchi, and Takanori Ida)
Online personal recommendation and media consolidation: empirical evidence from the online consumer behavior (with Kenichi Shinagawa)
Identifying substitutes or compliments between broadcasting TV program and program Web site.

Other Writings

"Policy options on the transparency and fairness in the transaction environment," Kousei Torihiki, No. 826. (In Japanese)
“Why Big Digital Platformers Are Concerned? " Keizai Seminar, vol. 707. (In Japanese)
"Services demand substitution between online with offline - Demand structure and price competition of the online contents market," Competition Policy Research Center CR 03-15, 2015 (with Yosuke Okada, Hiroshi Ohashi, Sumiko Asai) (In Japanese)
"The research on the use of OTT services via fixed broadband and mobile internet," in Ministry of Internal Affairs and Communications, Competition Review in the Telecommunications Business Field in FY2014, 71-83, 2015. (with Takanori Ida, Teppei Koguchi) (In Japanese)
"Simulation analysis for the effect of bundle of fixed broadband and mobile internet," in Ministry of Internal Affairs and Communications, Competition Review in the Telecommunications Business Field in FY2013, 68-80, 2014. (with Takanori Ida, Teppei Koguchi) (In Japanese)
"The research on the use of OTT services via fixed broadband and mobile internet," in Ministry of Internal Affairs and Communications, Competition Review in the Telecommunications Business Field in FY2013, 124-139, 2014. (with Takanori Ida, Teppei Koguchi) (In Japanese)
"Competition strategy in the multi-sided market," in Yosuke Okada and Syuya Hayashi eds, Study of Cloud Industries, 47-66, Keisosyobou, 2014. (In Japanese)
"Frontier of productivity analysis," Seisansei Shinbun, 2012. (In Japanese)
"Fairness and efficiency of big data," Nextcom, vol12, 40-49, 2012. (In Japanese)
"Two of two-sided economic analysis on the information and communication industries," Nextcom, vol5, 30-37, 2011. (In Japanese)
"Empirical evidence on the fixed broadband," in Takanori Ida, Akira Negishi, and Toshihiko Hayashi, A Policy Analysis on the Information and Communication (In Japanese)

Fellowship, Honors & Grants

KDDI Foundation Award 2022, research award.
JSPS KAKENHI Grant Number 22K01485, “Structural estimation on the statistical learning model: Application on the competition and social policy for the digital economy,” 2022-2027.
JSICR paper award 2021, “An empirical analysis on individual’s privacy-related consciousness and digital service adoption,” with Hajime Oiso and Takanori Ida.
JSPS KAKENHI Grant Number 16K03663, “Structural estimation of productivity and ad-competition on the charity market,” 2016-2020.
Telecom Social Science Award (Encouragement Prize), Mar. 2013 (The Telecommunications Advancement Foundation)
Institute for Information and Communications Policy, “Privacy and Industrial Organization”, 2012-13.
JSPS KAKENHI Grant Number 24730223, “Theory and Empirical Analysis of an Efficient Spectrum Allocation Mechanism for Efficient Allocation and Uses in Broadcast and Telecommunication Market,” 2012-2015.
JSPS KAKENHI Grant Number 22730207, “Package Policy Simulation of Structural and Conduct Regulation in Telecommunication Market”, 2010-2011.
Telecommunications Advancement Foundation, “Analysis of the network effects and regulation on the diffusion the third generation mobile telecommunication,” 2010.
Research Fellow of the Japan Society for the Promotion of Science, 2007 – 2009.

Refereeing

Japanese Economic Review, Information Economics and Policy, Technological Forecasting & Social Change, Review of Socionetwork Strategies, Japan and the World Economy, Telecommunications Policy, Journal of Information Policy, International Journal of Economic Theory, Journal of Internet Technology, Journal of Information and Communications Policy, Journal of Public Utility Economics, Keizai Kenkyu, IEEE Communications Magazine, Economic Modelling.

Teaching

Graduate Advanced Microeconomics (Tokyo Keizai University, 2018-2022)
Undergraduate Computational Econometrics (Tokyo Keizai University, 2016)
Undergraduate Principle of Microeconomics (International Christian University, 2013 Spring)
Undergraduate Econometrics (Tokyo Keizai University, 2012)
Graduate Informational Economic Systems (Graduate School of Applied Informatics University of Hyogo, 2011 Winter)
Graduate Economic Policy (Tokyo Keizai University, 2010, 2017)
Undergraduate Modern Industrial Organization (Tokyo Keizai University, 2009-)
Undergraduate Economic statistics (Tokyo Keizai University, 2009-2013)

Research Presentations

2026: Japanese Economic Association (Autumn)
2025: Kochi University of Technology, Nagoya University, JSQPS2025Winter, ESWC2025
2024: SWIE2024, EARIE2024
2022: ITS European regional conference
2021: TPRC48
2020: ESWC2020
2019: Kansai University, Kyoto University, International Christian University
2018: Kwansei Gakuin University
2017: ITS Asia Pacific Regional Conference, KEIO University

2016: Japanese Economic Association (Spring), JSICR(Spring), European Regional ITS Conference, Japanese Economic Association (Autum), Kwansei Gakuin University.
2015: University of Tokyo, European Regional ITS Conference, EARIE, TPRC, 8th ICT Paris Conference, ITS regional Conference LA.
2014: ITS Biennial Conference, Japanese Economic Association, IIOC
2013: 4th Workshop on the Economics of ICTs, IIOC, Japan Society of Public Utility Economics.
2012: International telecommunication society, Hitotsubashi University, Japan Society of Public Utility Economics, Japanese Economic Association, Kwansei Gakuin University.
2011: Japanese Economic Association, Japan Society of Public Utility Economics
2010: University of Tokyo
2009: Japan Society of Public Utility Economics
2008: Japan Society of Public Utility Economics, Japanese Economic Association, TPRC
2005: Japan Society of Public Utility Economics

Other Presentations

2021: Mobile Communication Systems System Working Group of MIC Radio Policy Conference for the Era of Digital Transformation.
2019: METI Working Group for ensuring transparency and fairness
2013: BBL seminar of Ministry of Internal Affairs and Communications, Competition Review Advisory Board of Ministry of Internal Affairs and Communications.
2012: InfoCom Research, Inc.
2011: Japan Fair Trade Commission.
2010: The New Institute for Social Knowledge and Collaboration: Kumon Center, Tama University
2009: Study Program on Information and Communication Policies
2008: Competition Policy Research Center of Japan Fair Trade Commission, AFL Telecommunications
2004: Conference for the competition review of Japanese telecommunication markets