

## Mizuki Kawabata

Last updated: January 22, 2022

Professor

Faculty of Economics, Keio University  
2-15-45 Mita, Minato-ku, Tokyo, Japan, 108-8345  
Email: [mizuki@econ.keio.ac.jp](mailto:mizuki@econ.keio.ac.jp)

### Education:

1995 B.A. Keio University (Economics)  
1997 M.M.G. Keio University (Media and Governance)  
2002 Ph.D. Massachusetts Institute of Technology (Urban and Regional Planning)  
Dissertation title: “Access to jobs: transportation barriers faced by low-skilled autoless workers in U.S. metropolitan areas” (Dissertation committee: [Frank Levy](#) (thesis supervisor), [Joseph Ferreira](#), [Qing Shen](#), and [Moshe Ben-Akiva](#))

### Research fields:

Spatial Information Science, Economic Geography, Urban and Regional Policy

### Academic appointments:

2002 – 2004 Post-Doctoral Researcher, Center for Spatial Information Science, The University of Tokyo  
2004 – 2005 Assistant Professor, Department of Risk Engineering, Graduate School of Systems and Information Engineering, University of Tsukuba  
2005 – 2011 Associate Professor, Center for Spatial Information Science, The University of Tokyo  
2012 – 2013 Associate Professor, Faculty of Economics, Keio University  
2014 – present Professor, Faculty of Economics, Keio University

### Visiting lecturer and researcher:

2010 – present Visiting Lecturer, National Graduate Institute for Policy Studies  
2012 – present Visiting Researcher, Center for Spatial Information Science, The University of Tokyo.  
2012 – 2013 Visiting Lecturer, Graduate School of Public Policy, The University of Tokyo  
2016 – present

### Academic and professional service:

2004 – 2005 Director and Trustee, MIT Association of Japan  
2006 – 2008 Board Member, GIS Association of Japan  
2006 – 2007 Provisional member, Committee on Regional Public Transportation, Commission of Transportation System, Council for Transportation Policy, Ministry of Land, Infrastructure and Transport Government of Japan (MLIT)  
2010 – 2011, 2014 – 2019 Representative, GIS Association of Japan  
2010 Member, Exploratory Committee of Metropolitan Transportation Census Using ICT Etc., Institution for Transport Policy Studies  
2010 – 2011 Member, Intellectual Committee on Mobility Support, MLIT  
2010 Member, Research and Examination Committee of the 11<sup>th</sup> Metropolitan Transportation Census, Institute for Transport Policy Studies  
2010 – 2011 Voting Monitor, Applied Regional Science Conference of Japan  
2010 – 2018 Member, Editorial Board, GIS Association of Japan  
2011 Member, Research Grant Selection Committee, Sasakawa Sports Foundation  
2010 – 2011 Member, 2011 Research and Examination Committee of Metropolitan Transportation Census, MLIT  
2012 – 2015 Member, Public Relations Committee, Association of Japanese Geographers  
2012 Member, Exploratory Committee of Research on Methods to Estimate Childcare Needs, Ministry of Health, Labour and Welfare of Japan (MHLW)

- 2012 Member, Exploratory Committee of Analysis and Investigation of Metropolitan Transportation Census, MLIT
- 2012 – 2013 Member, Intellectual Committee on Mobility Support for Pedestrians, MLIT
- 2013 Member, Exploratory Committee of Trial Survey of Understanding Use Needs toward the Development of Municipal Children and Child-Rearing Support Plans, MHLW
- 2013 – 2014 Member, Committee of Assessing Independent Administrative Legal Entity, Ministry of Internal Affairs and Communications of Japan (MIC)
- 2014 Member, Workshop on the Future of Local Governmental Structures in Three Metropolitan Areas and Local Areas to Respond Appropriately to Depopulating Society, MIC
- 2014 – 2015 Member, Spring Program Committee of Japanese Economic Association
- 2015 – 2016 Member, Research Committee of Training Childminders, MHLW
- 2015 – 2016 Member, Experts Committee of Grants-in-Aid for Scientific Research (KAKENHI), Japan Society for the Promotion of Science
- 2016 – 2017 Chair, Award Committee, GIS Association of Japan
- 2016 – 2017 Member, Award Committee, Applied Regional Science Conference of Japan
- 2017 Member, Exploratory Committee on Promoting Mid- to Long-Term Cadastral Development, MLIT
- 2018 – 2019 Member, Project Committee, GIS Association of Japan
- 2018 Chair, Award Committee, Applied Regional Science Conference of Japan
- 2017 – 2020 Member, Land Appraisal Committee, MLIT
- 2017 – 2020 Member, Housing Policy Council, Tokyo Metropolitan Government
- 2018 – 2019 Member, English Monographs Committee, Association of Japanese Geographers
- 2020 – 2022 Member, Research Council, Center for Spatial Information Science, The University of Tokyo
- 2019 – 2021 Outside Professional for Reviews on Government Projects, MLIT
- 2019 – present Research Member, Housing Economics Seminar, Housing Research and Advancement Foundation of Japan
- 2020 – present Board Member, GIS Association of Japan
- 2020 – 2021 Member, Committee on Examining Utilization Methods for Area Data to Understand Regional Real Estate Market Trends, MLIT
- 2020 Member, Harassment Countermeasures Committee, Japan Economic Association 2020 Autumn Meeting
- 2021 – 2022 Member, Review Committee on Urban Regeneration Step Up Project (Shibuya District) Shibuya 1-chome Area Joint Development Project, Bureau of Urban Development, Tokyo
- 2021 – 2022 Chair, Review Committee on Model Projects for Solving Regional Issues Using Human Flow Data, Ministry of Land, Infrastructure, Transport and Tourism, Japan

**Courses taught:**

- 1999 Spring Sem. Department of Urban Studies and Planning, MIT: assisted graduate (TA) Workshop on GIS
- 2002 Spring Sem. Department of Urban Studies and Planning, MIT: assisted graduate (TA) Quantitative reasoning & statistical methods for planning I
- 2004 College of Policy and Planning Sciences, University of Tsukuba: Workshop on urban planning, programming workshop (Java), Workshop on making urban planning master plans
- Graduate School of Systems and Information Engineering, University of Tsukuba: Seminar on risk engineering, Risk in urban systems, Seminar on urban risk analysis
- 2005 College of Policy and Planning Sciences, University of Tsukuba: Seminar on information literacy, Workshop on urban planning, Environmental science and risk management, Management and administration of cities and region
- Graduate School of Systems and Information Engineering, University of Tsukuba: Seminar on risk engineering
- Graduate School of Frontier Sciences, The University of Tokyo: Seminar on spatial information analysis
- 2006 – 2013 Graduate School of Public Policy, The University of Tokyo: Urban and regional policy (2006

- 2016 – present – 2007)  
 Graduate School of Public Policy & Graduate School of Economics, The University of Tokyo:  
 Urban and regional policy/Urban and regional economics (Joint Course) (2008 – 2013),  
 Urban and regional policy/Urban economic policy (Joint Course) (2016 – 2020)
- 2006 – 2010 Graduate School of Frontier Sciences, The University of Tokyo: Seminar on urban and regional economic analysis
- 2010 Department of Urban Engineering, The Univ. of Tokyo: Urban analysis
- 2010 – 2014 National Graduate Institute for Policy Studies: Economic Analysis of urban policy
- 2011 – present National Graduate Institute for Policy Studies: Spatial analysis of urban policy
- 2012 Keio University: Free research seminar
- 2012 – 2014 Keio University: Reading course in foreign languages
- 2012 – present Keio University: Economic geography, Economics and environment, Seminar
- 2013 – 2019 Keio University: Economic geography/Specified lecture on the theory of society and environment (graduate)
- 2014 – 2015 Keio University: Research project
- 2015 – present Keio University: Seminar: economic geography/society and environment (graduate)
- 2020 – 2021 Keio University: Urban and Regional Mobility Industry (Sponsored by Deloitte Tohmatsu Consulting LLC)

#### **Fellowships:**

- 1997 – 2000 Japan Scholarship Foundation Scholarship
- 1997 – 2000, 2002 Departmental Graduate Fellowship, Department of Urban Studies and Planning, MIT
- 1999 Summer Inter-University Consortium for Political and Social Research (ICPSR) Fellowship

#### **Awards:**

- 2020 CSIS DAYS 2020 Excellent Joint Research Presentation, Center for Spatial Information Science at the University of Tokyo  
 Presentation title: “Spatial panel data analysis of clustering of children in single-mother households and regional characteristics” (with Yukiko Abe and Yuki Shibatsuji)
- 2015 Best Paper Award, Applied Regional Science Conference  
 Paper title: “Childcare access and employment: the case of women with preschool-aged children in Tokyo”
- 2006 Research Encouragement Award, GIS Association of Japan
- 2002 [Barclay Gibbs Jones Award for Best Dissertation in Planning](#), Association of Collegiate Schools of Planning, US.
- 2002 Outstanding Ph.D. Dissertation Award, Department of Urban Studies and Planning, MIT

#### **Refereed articles:**

- Kawabata, M., Naoi, M., Yasuda, S. (forthcoming) “Earthquake risk reduction and residential land prices in Tokyo.” *Journal of Spatial Econometrics*.
- Shibatsuji, Y., Kawabata, M. (2021) “Relationships between spatial patterns of single-mother households and public housing location: an exploratory data analysis in the Tokyo ward area.” *Theory and Applications of GIS*, Vol. 29, No. 2, pp. 43-52. (in Japanese)
- Abe, Y., Kawabata, M., Shibatsuji, Y. (2021) “[Spatial clustering patterns of children in single-mother households in Japan](#).” *Journal of Spatial Econometrics*, 2: 1-33.
- Suzuki, T., Kawabata, M. (2019) “Geographically weighted regression analysis of abandoned farmland based on the Census of Agriculture and Forestry in Japan.” *Theory and Applications of GIS*, Vol. 27, No. 1, pp. 13-23. (in Japanese)
- Kawabata, M., Abe, Y. (2018) “[Intra-metropolitan spatial patterns of female labor force participation and commute times in Tokyo](#).” *Regional Science and Urban Economics*, Vol. 68, 291-303.

- Kawabata, M. (2014) “Status and issues of GIS use in economics.” *Theory and Applications of GIS*, Vol. 22, No. 1, pp. 47-52. (in Japanese)
- Kawabata, M. (2014) “[Childcare access and employment: the case of women with preschool-aged children in Tokyo.](#)” *Review of Urban & Regional Development Studies*, Vol.26, pp. 40-56. (2015 Best Paper Award of Applied Regional Science Conference)
- Kawabata, M. (2010) “Children awaiting enrollment in child-care centers and accessibility to child-care centers: a case study of Bunkyo City in Tokyo.” *Journal of Applied Regional Science*, Vol. 15, pp. 1-12. (published by the Applied Regional Science Conference in Japan) (in Japanese)
- Kawabata, M., Thapa, R. B., Oguchi, T., Tsou, M-H. (2010) “[Multidisciplinary cooperation in GIS education: a case study of US colleges and universities.](#)” *Journal of Geography in Higher Education*, Vol. 34, No. 4, pp. 493-509.
- Kawabata, M. (2009) “[Spatiotemporal dimensions of modal accessibility disparity in Boston and San Francisco.](#)” *Environment and Planning A*, Vol. 41, No. 1, pp. 183-198.
- Kawabata, M., Thapa, R. B. (2008) “GIS education programs at US colleges and universities: investigation of the 2007-08 academic year.” *Theory and Applications of GIS*, Vol. 16, No. 2, pp. 35-41. (in Japanese)
- Kawabata, M., Thapa, R. B. (2008) “GIS education programs at US universities: cooperation between geography-related and engineering/information-related fields.” *Theory and Applications of GIS*, Vol. 16, No. 2, pp. 27-33. (in Japanese)
- Kawabata, M., Shen, Q. (2007) “[Commuting inequality between cars and public transit: the case of the San Francisco Bay Area, 1990-2000.](#)” *Urban Studies*, Vol. 44, No. 9, pp. 1759-1780.
- Kawabata, M., Iwata, O., Esaki, R., Kurata, Y., Nara, A., Hamada, Y., Yamazaki, Y. (2006) “Investigation of geographic information science education systems at 14 universities in North America.” *Theory and Applications of GIS*, Vol. 14, No. 2, pp. 107-113. (published by the GIS Association of Japan) (in Japanese)
- Kawabata, M., Shen, Q. (2006) “[Job accessibility as an indicator of auto-oriented urban structure: a comparison of Boston and Los Angeles with Tokyo.](#)” *Environment and Planning B: Planning and Design*, Vol. 33, No. 1, pp. 115-130.
- Kawabata, M., Takahashi, A. (2005) “Spatial dimensions of job accessibility by commuting time and mode in the Tokyo metropolitan area.” *Theory and Applications of GIS*, Vol. 13, No. 2, pp. 139-148. (published by GIS Association of Japan)
- Kawabata, M., Oguchi, T., Okabe, A. (2004) “Investigating representative GIS curricula in the U.S. and GIS textbooks in English.” *Theory and Applications of GIS*, Vol. 12, No. 1, pp. 81-89. (published by GIS Association of Japan) (in Japanese)
- Kawabata, M., Ferreira, J. Jr. (2004) “Developing GIS-based measurements of urban components for urban environmental modeling.” In Miyake, R., ed. *Keio SFC Journal, Vol. 3, No. 1: Issues on Environmental Studies*, pp. 142-164.
- Kawabata, M. (2003) “Job accessibility by travel mode in U.S. metropolitan areas.” *Theory and Applications of GIS*, Vol. 11, No. 2, pp.165-172. (published by GIS Association of Japan)
- Kawabata, M. (2003) “Spatial distributions of low-skilled workers and jobs in U.S. metropolitan areas.” *Theory and Applications of GIS*, Vol. 11, No. 2, pp. 155-163. (published by GIS Association of Japan)
- Kawabata, M. (2003) “[Job access and employment among low-skilled autoless workers in U.S. metropolitan areas.](#)” *Environment and Planning A*, Vol. 35, No. 9, pp. 1651-1668.

#### **Books:**

- Kawabata, M. (2019) “Geographic Information Systems (GIS) and the exploration of geographical

world.” In Takeyama, M., Matsubara, A. (eds.) *Human Geography*. Tokyo: Keio University Press. (in Japanese)

- Kawabata, M. (2018) “The use of GIS in real estate economic analysis.” In Real Estate Policy Study Group (eds.) *Real Estate Policy Studies Individual Research II: Real Estate Economic Analysis*. Tokyo: Toyo Keizai Inc, pp. 208-229. (in Japanese)
- Kawabata, M. (ed.) (2018) *Introduction to GIS for Economic and Policy Analysis 2: Spatial Statistics Tools and Applications with ArcGIS Pro*. Tokyo: Kokon-Shoin, Publisher. (in Japanese)
- Kawabata, M. (2018) *Introduction to GIS for Economic and Policy Analysis 1: Basics with ArcGIS Pro*. Tokyo: Kokon-Shoin, Publisher. (in Japanese)
- Kawabata, M. (2015) *Introduction to GIS for Economic and Policy Analysis: Learning with ArcGIS 10.2 & 10.3*. Tokyo: Kokon-Shoin, Publisher. (in Japanese)
- Kawabata, M. (2015) “8 Spatial Data.” In Asami, Y., Yano, K., Sadahiro, Y., Yuda, M. eds. *Geographic Information Science: GIS Standards*. Kokon Shoin, pp. 50-53. (in Japanese)
- Kawabata, M. (2014) “Why does agglomerations of people and employment in cities occur.” In The Nikkei ed. *Economics that Clarify Immediate Questions*. Nikkei Publishing, pp. 137-155. (in Japanese)
- Kawabata, M. (2011) “Spatial mismatch problem of childcare in Tokyo.” In Asami ed. *International Conference: Spatial Thinking and Geographic Information Sciences 2011, Prodedia Social and Behavioral Sciences*, 21, pp. 300-303.
- Kawabata, M. (2008) “Public policy and GIS.” In Murayama, Y. and R. Shibasaki, eds. *Series GIS, Volume 4: GIS for Business and Public Administration*. Tokyo: Asakura Publishing, pp. 167-180. (in Japanese)
- Kawabata, M., Shen, Q. (2005) “Examining accessibility inequality towards sustainable development and transportation.” In Murayama, Y. and G. Du, eds. *Cities in Global Perspective: Diversity and Transition*. Tokyo: International Geographical Union, Urban Commission, pp. 595-603.
- Kawabata, M. (2003) “GIS and their applications for planning.” In Kagawa, T. and T. Kojima, eds. *The Forefront of Policy Management, Volume 4: Challenges by Rising Scholars*. Tokyo: Keio University Press, pp. 72-95. (in Japanese)
- Shen, Q., Kawabata, M. (2003) “Reexamining the geography of the urban labor market: a case study of the San Francisco Bay Area.” In Guhathakurta, S., ed. *Integrated Land Use and Environmental Models: A Survey of Current Applications and Research*. Berlin: Springer-Verlag, pp. 197-214.

#### **Other publications:**

- Kawabata, M. (2020) "Geographic disparities in female employment and commuting time." *Quarterly Housing and Land Economics*, 115 16 - 25 2020. (in Japanese)
- Abe, Y., Kawabata, M., Shibatsuji, Y. (2019) “Spatial clustering patterns of children in single-mother households in Japan.” *Institute for Economic Studies, Keio University Keio-IES Discussion Paper Series*, DP2019-021, pp. 1-34.
- Kawabata, M. (2017) “Childcare access and mothers’ preferred employment.” *Quarterly Housing and Land Economics*, 105, pp. 10-18. (in Japanese)
- Kawabata, M. (2017) “Spatial mismatch of the supply and demand of childcare centers.” *Urban Housing Sciences*, 96, pp. 9-12. (in Japanese)
- Kawabata, M., Abe, Y. (2016) “Spatial dimensions of intra-metropolitan disparities in commuting time and female labor force participation.” *Institute for Economic Studies, Keio University Keio-IES Discussion Paper Series DP2016-024*, pp. 1-32. (The revised version will be published in *Regional Science and Urban Economics*)
- Kawabata, M. (2012) “Access to childcare and the employment of women with preschool-aged children

in Tokyo.” *Center for Spatial Information Science, The University of Tokyo, Discussion Paper No. 114*, pp. 1-33. (The revised version was published in the *Review of Urban & Regional Development Studies*)

- Lee, S., Kokido, R., Kurihara, T., Kawabata, M., Takahashi, T. (2011) “Survey report on travel behavior of elderly people in Tokyo’s 23 wards.” *Center for Spatial Information Science, The University of Tokyo, Discussion Paper No. 102*, pp. 1-120. (in Japanese)
- Kawabata, M. (2011) “Spatial mismatch of childcare in Tokyo.” *Center for Spatial Information Science, The University of Tokyo, Discussion Paper No. 107*, pp. 1-30.
- Kawabata, M. (2010) “Survey report on balancing work and child rearing and accessibility to child-care centers.” *Center for Spatial Information Science, The University of Tokyo, Discussion Paper No. 102*, pp. 1-39. (in Japanese)
- Kawabata, M. (2009) “Accessibility to child-care centers: a case study of Bunkyo City in Tokyo.” *Center for Spatial Information Science, The University of Tokyo, Discussion Paper No. 99*, pp. 1-16. (in Japanese) (The revised version was published in the *Journal of Applied Regional Science*)
- Kawabata, M., Thapa, R. B., Oguchi, T. (2009) “Inter-field cooperation in GIS education in the US” In Murayama, Y., ed. *Establishment of GIScience Education Methods: How to Teach GIS at Universities Effectively, Report on Research Results. 2005-2008 Grant-in-Aid for Scientific Research (A)*, Japan Society for the Promotion of Science, pp. 175-184.
- Kawabata, M. (2008) “A method of cooperation between geography and other fields in Geographic Information Science education.” *Report on History and Geography Grants*, Fukutake Science and Culture Foundation, pp. 85-91. (in Japanese)
- Kawabata, M., Thapa, R. B., Oguchi, T. (2008) “Inter-field cooperation in GIS education in the US.” *Center for Spatial Information Science, The University of Tokyo, Discussion Paper No. 91*, pp. 1-13. (The revised version was published in the *Journal of Geography in Higher Education*)
- Kawabata, M., Thapa, R. B. (2008) “Attachment: Interdepartmental cooperation in GIS certificate programs at universities in the U.S.” In Okabe, A., ed. *Development of curricula for Geographic Information Science and a sustainably collaborative web library system for serving the materials of the curricula, Report on Research Results. 2005-2007 Grant-in-Aid for Scientific Research (A)*, Japan Society for the Promotion of Science, pp. 234-235. (in Japanese)
- Kawabata, M., Iwata, O., Esaki, R., Kurata, Y., Nara, A., Hamada, Y., Yamazaki, Y. (2008) “Investigation of geographic information science education systems at universities in North America.” In Okabe, A., ed. *Development of curricula for Geographic Information Science and a sustainably collaborative web library system for serving the materials of the curricula, Report on Research Results. 2005-2007 Grant-in-Aid for Scientific Research (A)*, Japan Society for the Promotion of Science, pp. 225-233. (in Japanese)
- Kawabata, M. “Investigation of urban spatial structure and automobile dependence in Japan and the US towards sustainable urban development.” Report of Granted Research, The Asahi Glass Foundation 2007, No. 60, CDROM.
- Shimizu, C., Kawabata, M. (2007) “The situation of overseas real estate information standards.” In Asami, Y. ed. *Research Report on the Standardization of the Next Generation Type of Real Estate Information Corresponding to Spatial Variability. 2006-2007 Grant-in-Aid for Scientific Research (C): Planning and Research*, Japan Society for the Promotion of Science, pp. 38-58. (in Japanese)
- Kawabata, M., Iwata, O., Esaki, R., Kurata, Y., Nara, A., Hamada, Y., Yamazaki, Y. (2007) “Investigation of geographic information science education systems at 14 universities in North America.” In Murayama, Y., ed. *Establishment of GIScience Education Methods: How to Teach GIS at Universities Effectively, Interim Report on Research Results. 2005-2008 Grant-in-Aid for Scientific Research (A)*, Japan Society for the Promotion of Science, pp. 104-110. (in Japanese)
- Kawabata, M., Thapa, R. B. (2007) “Interdepartmental cooperation in GIS certificate programs at universities in the U.S.” In Murayama, Y., ed. *Establishment of GIScience Education Methods: How to Teach GIS at Universities Effectively, Interim Report on Research Results. 2005-2008 Grant-in-Aid for*

Scientific Research (A), Japan Society for the Promotion of Science, pp. 111-112. (in Japanese)

- Kawabata, M. (2007) “Spatio-temporal dimensions of modal accessibility disparity: the cases of Boston and San Francisco, 1990-2000.” *Center for Spatial Information Science, The University of Tokyo, Discussion Paper No. 84*, pp. 1-26. (The revised version was published in *Environment and Planning A*)
- Kawabata, M., Iwata, O., Esaki, R., Kurata, Y., Nara, A., Hamada, Y., Yamazaki, Y. (2006) “Geographic Information Science Education Systems at 14 Universities in North America.” *Center for Spatial Information Science, The University of Tokyo, Discussion Paper No. 70*, 88pp. (in Japanese)
- Kawabata, M., Shen, Q. (2006) “Spatio-temporal dimensions of commuting inequality between car and public transit: the case of San Francisco.” *Center for Spatial Information Science, The University of Tokyo, Discussion Paper No. 69*, pp. 1-29. (The revised version was published in *Urban Studies*)
- Kawabata, M., Okabe, A., Oguchi, T., Kohsaka, H., Murayama, Y. (2005) “Development of GIS core curricula: a curriculum draft, chapters 1 and 2.” *Center for Spatial Information Science, The University of Tokyo, Discussion Paper No. 66*, pp. 1-16.
- Okabe, A., Oguchi, T., Kohsaka, H., Murayama, Y., Satoh, H., Kawabata, M. (2005) *Development of GIS Core Curricula – Examination of Curriculum Draft –*. Working Group on GIS Education Curricula, Geographic Information Systems Association in Japan, 36pp. (in Japanese)
- Kawabata, M., Takahashi, A. (2004) “Modeling with GIS: OD commuting times by car and public transit in Tokyo.” *Institute of Policy and Planning Sciences, University of Tsukuba, Discussion Paper No. 1102*, pp. 1-11.
- Okabe, A., Oguchi, T., Kohsaka, H., Murayama, Y., Kawabata, M. (2004) *Development of GIS Core Curricula – Curriculum Draft –*. Working Group on GIS Education Curricula, Geographic Information Systems Association in Japan, 155pp. (in Japanese)
- Kawabata, M., Ferreira, J. Jr. (2003) “GIS modeling of urban components to monitor and model urban respiration.” *Center for Spatial Information Science, The University of Tokyo, Discussion Paper No. 58*, pp. 1-18.
- Kawabata, M. (2003) “A GIS-based analysis of jobs, workers, and job access in Tokyo.” *Center for Spatial Information Science, The University of Tokyo, Discussion Paper No. 57*, pp. 1-19.
- Kawabata, M. (2002) “Job access and work among autoless adults on welfare in Los Angeles.” *Ralph and Goldy Lewis Center for Regional Policy Studies, UCLA, Working Papers Series No. 40*, pp. 1-20.
- McManus, J. B., Shorter, J. H., Zahniser, M. S., Kolb, C. E., O’Neill, S. M., Stock, D., Napelenok, S., Allwine, E. J., Lamb, B. K., Scheuer, E., Talbot, R. W., Martini, G., Adamkiewicz, G., Pun, B. K. L. I., Wang, C., McRae, G. J., Ismail, A. A., Kawabata, M., Yeang, C. H., Narasimhan, G., Humbad, S., Zhang, M., Ferrera, J. Jr. (2002) *Measurements and Analyses of Urban Metabolism and Trace Gas Respiration*. Office of Earth Sciences, National Aeronautic and Space Administration, ARI Report No. RR-1330, 240pp.
- Kawabata, M. (1997) *A Study on the Relationship Between Greenspace and Land Use Changes in the Inner Urban Area of Tokyo Based on GIS Data*. Master's Thesis, Graduate School of Media and Governance, Keio University. (in Japanese)
- Kawabata, M. (1997) “A study on the relationship between large greenspaces and past urban land use in the inner urban area of Tokyo using GIS.” *Proceedings of the Second Inter-University Seminar on Asian Megacities*, Tongji University, Shanghai, China, pp. 111-121.
- Endo, M., Osawa, K., Kawabata, M., Hibata, Y. (1996) “Natural environmental effects on land use in the inner urban area.” *Proceedings of the First Inter-University Seminar on Asian Megacities*, Keio University at Shonan Fujisawa Campus, Kanagawa, Japan, pp. 204-210.

#### Conference presentations

- Shibatsuji, Y., Kawabata, M. “Regional disparities and factors in public support for single-parent

families.” *The 30th Annual Meeting of the Geographic Information Systems Association of Japan*, Online, Japan, 2021.10.30-31. (in Japanese).

- Kawabata, M., Naoi, M., Yasuda, S. “Spatial econometrics analysis on earthquake risk reduction.” *The 30th Annual Meeting of the Geographic Information Systems Association of Japan*, Poster presentation, Online, Japan, 2021.10.30-31. (in Japanese).
- Kawabata, M., Naoi, M., Yasuda, S. "Impacts of reducing earthquake risk on residential land prices in Tokyo: a spatial panel data approach." *The XV World Conference of Spatial Econometrics Association*, Tokyo (online), 2021. 5. 27.
- Kawabata, M., Naoi, M., Yasuda, S. “Impacts of reducing earthquake risk on residential land prices in Tokyo.” *The Applied Regional Science Conference 34rd Annual Meeting*, Online, 2020.11.29.
- Shibatsuji, Y., Kawabata, M. “Regional disparities in the implementation status of measures to support the independence of single-mother households.” *CSIS Days 2020: National Cooperative Use Research Conference*, D10, The University of Tokyo Kashiwa Campus, Chiba, Japan, 2020.11.21. (in Japanese).
- Abe, Y., Kawabata, M., Shibatsuji, Y. “Spatial panel data analysis of clusters and regional characteristics of children in single-mother households.” *CSIS Days 2020: National Cooperative Use Research Conference*, D9, The University of Tokyo Kashiwa Campus, Chiba, Japan, 2020.11.21. (in Japanese). (CSIS DAYS 2020 Excellent Joint Research Presentation Award)
- Shibatsuji, Y., Kawabata, M. “Spatial distributions of single-mother households and regional characteristics – a comparison of single-mother and three-generation households –.” *The 29th Annual Meeting of the Geographic Information Systems Association of Japan*, Online Japan, 2020.10.24. (in Japanese).
- Abe, Y., Kawabata, M., Shibatsuji, Y. “Spatial clusters of children in single-mother households in Japan: an analysis with GIS and spatial panel data.” *The 29th Annual Meeting of the Geographic Information Systems Association of Japan*, Online Japan, 2020.10.24. (in Japanese).
- Kawabata, M. “Geoda’s spatial statistical tools” *2020 Japanese Economic Association Fall Meeting*, Risho University, Online, Japa, 2020.10.10. (in Japanese)
- Abe, Y., Kawabata, M., Shibatsuji, Y. “Spatial clustering patterns of children in single-mother households in Japan.” *The Applied Regional Science Conference 33rd Annual Meeting*, 2019.11.23.
- Shibatsuji, Y., Kawabata, M. “Spatial relationships between single-mother households and public housing in the Tokyo Ward Area.” *XIII World Conference Spatial Econometrics Association (SEA) 2019 – Joint with North American Regional Science Council*, Omni William Penn Hotel, Pittsburgh, US, 2019.11.15.
- Abe, Y., Kawabata, M., Shibatsuji, Y. “Spatial clustering patterns of children in single-mother households in Japan.” *XIII World Conference Spatial Econometrics Association 2019 – Joint with North American Regional Science Council*, Omni William Penn Hotel, Pittsburgh, US, 2019.11.15.
- Shibatsuji, Y., Kawabata, M. “Spatial Patterns of Single-Mother Households and Socioeconomic Factors in Japan.” *The 28th Annual Meeting of the Geographic Information Systems Association of Japan*, Tokushima University, Tokushima, Japan. (in Japanese)
- Abe, Y., Kawabata, M., Shibatsuji, Y. (2019) “Regional patterns of single motherhood in Japan.” *International Symposium on Child Poverty and Policy: Japan and the U.S.*, Kiyosumi Gardens Taisho Kinenkan, Tokyo, Japan.
- Abe, Y., Kawabata, M., Shibatsuji, Y. (2018) “Residential clusters of single-mother households and their temporal changes.” *CSIS Days 2018: National Cooperative Use Research Conference*, C11, The University of Tokyo Kashiwa Campus, Chiba, Japan. (in Japanese).
- Shibatsuji, Y., Kawabata, M. (2018) “Residential patterns of single-mother households and public housing in Tokyo.” *CSIS Days 2018: National Cooperative Use Research Conference*, C11, The University of Tokyo Kashiwa Campus, Chiba, Japan. (in Japanese)
- Shibatsuji, Y., Kawabata, M. (2018) “An exploratory spatial data analysis of residential characteristic of



- single-mother households in the Tokyo ward area.” *The 27th Annual Meeting of the Geographic Information Systems Association of Japan*, Tokyo Metropolitan University, Tokyo, Japan. (in Japanese)
- Luo, Y. Y., Kawabata, M. (2018) “Airbnb pricing and neighborhood characteristics in San Francisco.” *The 27th Annual Meeting of the Geographic Information Systems Association of Japan*, Tokyo Metropolitan University, Tokyo, Japan.
  - Kobayashi, Y., Kawabata, M. (2018) “Relationship between the ease of living and medical facility under accessibility.” *The 27th Annual Meeting of the Geographic Information Systems Association of Japan*, Tokyo Metropolitan University, Tokyo, Japan. (Poster session)
  - Oguchi, T., Kawabata, M. (2018) “History and recent trends of GIS education in Japan.” *International Conference on Spatial Analysis and Modeling*, The University of Tokyo, Tokyo, Japan.
  - Kobayashi, Y., Kawabata, M. (2017) “The relationships between land price and accessibility to primary care services.” *The 26th Annual Meeting of the Geographic Information Systems Association of Japan*, Miyagi University, Miyagi, Japan. (Poster session) (in Japanese)
  - Luo, Y., Kawabata, M. (2017) “Cluster analysis of inbound tourist accommodations using spatial statistics.” *The 26th Annual Meeting of the Geographic Information Systems Association of Japan*, Miyagi University, Miyagi, Japan. (Poster session) (in Japanese)
  - Suzuki, T., Kawabata, M. (2017) “Spatial econometric analysis of abandoned farmland based on the Census of Agriculture and Forestry in Japan” *The 26th Annual Meeting of the Geographic Information Systems Association of Japan*, Miyagi University, Miyagi, Japan. (Poster session) (in Japanese)
  - Kawabata, M., Abe, Y. (2017) “Spatial dimensions of intra-metropolitan disparities in female labor force participation and commute times.” *2017 Japanese Economic Association Spring Meeting*, Ritsumeikan University, Shiga, Japan. (in Japanese)
  - Kawabata, M., Abe, Y. (2017) “Intra-metropolitan disparities in female labor force participation and commute times.” *The 11th World Conference of the Spatial Econometrics Association*, Singapore Management University, Singapore.
  - Kawabata, M., Abe, Y. (2017) “Spatial dimensions of intra-metropolitan disparities in commuting time and female labor force participation.” *The American Association of Geographers 2017 Annual Meeting*, Boston, US.
  - Kobayashi, Y., Kawabata, M. (2017) “New medical areas based on accessibility to medical facilities: the case of emergency notice hospitals in the main island of Okinawa, Japan.” *The American Association of Geographers 2017 Annual Meeting*, Boston, US.
  - Kobayashi, Y., Kawabata, M. (2017) “New medical areas based on accessibility to medical facilities: the case of emergency medical care centers in the main island of Okinawa.” *The 2017 Spring General Meeting of the Association of Japanese Geographers*, No. 336, University of Tsukuba, Ibaraki, Japan. (in Japanese)
  - Kawabata, M., Abe, Y. (2016) “Intra-metropolitan disparities in commuting time and female labor force participation in Tokyo.” *The 30th Annual Meeting of Applied Regional Science Conference*, Kobe University, Kobe, Hyogo, Japan. (in Japanese)
  - Kobayashi, Y., Kawabata, M. (2016) “New access areas based on accessibility to medical facilities: the case of emergency medical care centers in Okinawa.” *The 25th Annual Meeting of the Geographic Information Systems Association of Japan*, Rissho University, Tokyo, Japan. (in Japanese) (Poster session award)
  - Luo, Y., Kawabata, M. (2016) “Spatial patterns and geographic factors of crime: the case of Tokyo 23 wards.” *The 25th Annual Meeting of the Geographic Information Systems Association of Japan*, Rissho University, Tokyo, Japan. (in Japanese)
  - Kobayashi, Y., Kawabata, M. (2016) “Medical administrative areas based on accessibility to medical facilities: the case of emergency medical care centers in Naha City, Okinawa.” *The 2016 Fall General Meeting of the Association of Japanese Geographers*, No. 10068, Tohoku University, Miyagi, Japan. (in Japanese)

Japanese)

- Kawabata, M. (2015) “Use of GIS and spatial data in urban and regional economic analysis.” *The 29th Annual Conference of Applied Regional Science Conference*, Keio University, Tokyo, Japan. (in Japanese)
- Kawabata, M. (2015) “Urban spatial structure and female employment focusing on commuting time.” *The 24th Annual Meeting of the Geographic Information Systems Association of Japan*, Keio University, Tokyo, Japan. (in Japanese)
- Kawabata, M. (2014) “Status and issues of GIS use in economics” *The 23th Annual Meeting of the Geographic Information Systems Association of Japan*, Chubu University, D-6-1, pp.1-4 (CD-ROM), Aichi, Japan. (in Japanese)
- Kawabata, M. (2014) “Use of GIS and spatial data in economic analysis.” Japanese Economic Association 2014 Autumn Meeting, Tutorial Session, Seinan Gakuin University, Fukuoka, Japan. (in Japanese)
- Lee, S., Oguchi, T., Kawabata, M. (2013) “GIS education in Korea.” *International Geographical Union 2013 Kyoto Regional Conference*, Kyoto International Conference Center, Kyoto, Japan.
- Takuya Kurihara, Sohee Lee, Mizuki Kawabata, Takaaki Takahashi (2012) “Research on factors determining unsatisfied level regarding residence of elderly people.” *The 21th Annual Meeting of the Geographic Information Systems Association of Japan*, Hiroshima Shudo University, Hiroshima, Japan. (in Japanese)
- Sohee Lee, Takuya Kurihara, Mizuki Kawabata, Takaaki Takahashi (2012) “Residential distribution of elderly households and regional classification in the Tokyo Metropolitan Area.” *The 21th Annual Meeting of the Geographic Information Systems Association of Japan*, Hiroshima Shudo University, Hiroshima, Japan. (in Japanese)
- Mizuki Kawabata (2012) “State and issues of GIS use in economic-related fields” *The 21th Annual Meeting of the Geographic Information Systems Association of Japan*, Hiroshima Shudo University, Hiroshima, Japan. (in Japanese)
- Kokido, R., Kawabata, M., Takahashi, T. (2012) “Satisfaction levels of travel behaviors and regional characteristics of elderly people in a suburban city: a case study of Kashiwa City, Chiba.” 2012 Summaries of Technical Papers of Annual Meeting, Architectural Institute of Japan, 7043, pp. 143-144 (CD-ROM), Nagoya University, Aichi, Japan. (in Japanese)
- Kawabata, M. (2012) “Childcare access and attaining desirable employment.” *2012 Japanese Economic Association Spring Meeting*, pp. 1-35, Hokkaido University, Hokkaido, Japan. (in Japanese)
- Kawabata, M. (2012) “Access to childcare and desired work-family balance in Tokyo.” *The American Association of Geographers 2012 Annual Meeting*, Sheraton Hotel, New York, New York, USA.
- Kawabata, M. (2011) “Access to childcare and desired employment of mothers with preschool children.” *The 25th Annual Conference of the Applied Regional Science Conference*, A5-2, pp. 1-41, University of Toyama, Toyama, Japan. (in Japanese)
- Kokido, R., Kurihara, T., Lee, S., Kawabata, M., Takahashi, T. (2011) “Regional characteristics and residential distribution of elderly people in a suburban city.” *CSIS Days 2011: National Cooperative Use Research Conference*, Research Abstract Proceedings, p. 18, The University of Tokyo Kashiwa Campus, Chiba, Japan. (in Japanese).
- Kurihara, T., Kokido, R., Lee, S., Kawabata, M., Takahashi, T. (2011) “Effect of differences in residential conditions between central and suburban cities on city satisfaction levels of elderly people: a comparison between Tokyo’s 23 wards and Kashiwa City in Chiba.” *CSIS Days 2011: National Cooperative Use Research Conference*, Research Abstract Proceedings, p. 17, The University of Tokyo Kashiwa Campus, Chiba, Japan. (in Japanese).
- Lee, S., Kokido, R., Kurihara, T., Kawabata, M., Takahashi, T. (2011) “Differences in travel behaviors between elderly and non-elderly people in Tokyo’s 23 Wards.” *CSIS Days 2011: National Cooperative*

*Use Research Conference*, Research Abstract Proceedings, p. 16, The University of Tokyo Kashiwa Campus, Chiba, Japan. (in Japanese).

- Kokido, R., Kurihara, T., Lee, S., Kawabata, M., Takahashi, T. (2011) “Effects of regional characteristics on travel behaviors of elderly people: a case study in Kashiwa City, Chiba.” *The 20th Annual Meeting of the Geographic Information Systems Association of Japan*, C-7-5, pp.1-4 (CD-ROM), Kagoshima University, Kagoshima, Japan. (in Japanese)
- Kurihara, T., Kokido, R., Lee, S., Kawabata, M., Takahashi, T. (2011) “Differences in residential conditions of elderly people between central and suburban cities: a comparison between Tokyo’s 23 wards and Kashiwa City in Chiba.” *The 20th Annual Meeting of the Geographic Information Systems Association of Japan*, C-7-4, pp.1-4 (CD-ROM), Kagoshima University, Kagoshima, Japan. (in Japanese)
- Lee, S., Kokido, R., Kurihara, T., Kawabata, M., Takahashi, T. (2011) “On the travel behaviors of elderly people in Tokyo’s 23 wards.” *The 20th Annual Meeting of the Geographic Information Systems Association of Japan*, D-6-4, pp.1-6 (CD-ROM), Kagoshima University, Kagoshima, Japan. (in Japanese)
- Otaki, I., Kawabata, M., Takahashi, T. (2011) “From suburbanization toward reurbanization of white-collar in Tokyo.” *The 20th Annual Meeting of the Geographic Information Systems Association of Japan*, C-5-3, pp. 1-2 (CD-ROM), Kagoshima University, Kagoshima, Japan. (in Japanese)
- Doi, M., Kawabata, M. (2011) “Analysis of economic value of urban residential environment in the Kobe area.” *The 20th Annual Meeting of the Geographic Information Systems Association of Japan*, D-1-1, pp.1-4 (CD-ROM), Kagoshima University, Kagoshima, Japan. (in Japanese)
- Kawabata, M. (2011) “Spatial mismatch problem of childcare in Tokyo.” *International Conference on Spatial Thinking and Geographic Information Sciences*, Komaba Research Campus, The University of Tokyo, Tokyo, Japan.
- Doi, M., Kawabata, M. (2011) “Analysis of the economic value of the urban residential environment: a case study of Kobe.” *Japan Geoscience Union Meeting 2010*, HTT033-10, Makuhari Messe International Conference Hall, Chiba, Japan. (in Japanese)
- Kawabata, M. (2011) “Spatial mismatch of childcare centers.” *The American Association of Geographers 2011 Annual Meeting*, Washington State Convention Center, Seattle, Washington, USA. (Illustrated paper session)
- Kawabata, M. (2010) “Spatial mismatch of childcare.” *The 24th Annual Conference of the Applied Regional Science Conference*, A5-1, pp. 1-23, Nagoya University, Aichi, Japan.
- Kawabata, M. (2010) “Spatial mismatch of the supply and demand of child-care facilities in Tokyo’s 23 wards.” *The 19th Annual Meeting of the Geographic Information Systems Association of Japan*, Vol. 19, P-5, pp.1-4 (CD-ROM), Ritsumeikan University, Kyoto, Japan. (Poster session) (in Japanese)
- Endo, M., Kawabata, M. (2010) “Trend in and classification of urban gravesites in 23 wards in Tokyo.” *Abstracts, Japan Geoscience Union Meeting 2010*, Makuhari Messe International Conference Hall, Chiba, CDROM, HTT032-P08, Japan. (Poster session) (in Japanese)
- Kawabata, M. (2010) “Balancing work and child rearing and accessibility to child-care centers.” *Abstracts, Japan Geoscience Union Meeting 2010*, Makuhari Messe International Conference Hall, Chiba, CDROM, HTT032-05, Japan. (in Japanese)
- Kawabata, M. (2010) “Children awaiting enrollment in child-care centers and accessibility to child-care centers in Tokyo’s 23 wards.” *The City Planning Institute of Japan 2010 Poster Session*, Tokyo, Japan. (in Japanese)
- Kawabata, M. (2009) “Spatial Analysis of Accessibility to Child-Care Centers: A Case Study of Bunkyo City in Tokyo” *The 18th Annual Meeting of the Geographic Information Systems Association of Japan*, Vol. 19, .581-584 (&CD-ROM), Toki Messe, Niigata Convention Center, Niigata, Japan. (Poster session P-13) (in Japanese)
- Kawabata, M., Thapa, R. B., Oguchi, T. (2008) “Multidisciplinary cooperation in GIS education.” *CSIS Days 2008: National Cooperative Use Research Conference*, Tokyo, Japan, Research Abstract

Proceedings, p. 31. (in Japanese)

- Kawabata, M., Thapa, R. B. (2008) "Inter-field cooperation in GIS education programs in the U.S." *The 17th Annual Meeting of the Geographic Information Systems Association of Japan*, CDROM, 1F-4, Institute of Industrial Science, the University of Tokyo, Tokyo, Japan. (in Japanese)
- Kawabata, M., Thapa, R. B. (2008) "Interdepartmental Cooperation in US University GIS Programs: Investigation for the 2007-2008 Academic Year" *Abstracts, Japan Geoscience Union Meeting 2008*, Makuhari Messe International Conference Hall, Chiba, CDROM, X165-011, Japan. (in Japanese)
- Kawabata, M., Thapa, R. B. (2008) "Cooperation between Geography and Other Fields in GIS Curricula at Universities in the U.S." *Proceedings of the General Meeting of the Association of Japanese Geographers*, No. 73, p. 106, Dokkyo University, Tokyo, Japan. (in Japanese)
- Kawabata, M. "Auto dependency of urban spatial structure from the perspective of accessibility disparity: case studies from Japan and the U.S." *The 16th Annual Meeting of the Geographic Information Systems Association of Japan*, Hokkaido, Japan. (Poster session)
- Kawabata, M., Thapa, R. B. "Interdepartmental cooperation in GIS certificate programs at universities in the U.S." *Abstracts, Japan Geoscience Union Meeting 2007*, Makuhari Messe International Conference Hall, Chiba, CDROM, J170-006, 2007.5.20, Japan. (in Japanese)
- Kawabata, M. (2007) "Modal accessibility inequality and urban spatial structure: an international comparison." *The American Association of Geographers 2007 Annual Meeting Abstract*, San Francisco, California, USA, p. 326. (Poster session)
- Kawabata, M., Shen, Q. (2006) "Spatio-temporal analysis of inequality of job access between cars and public transit." *Association of Collegiate Schools of Planning 47th Annual Conference*, Fort Worth, Texas, USA, pp. 1-14.
- Kawabata, M., Iwata, O., Esaki, R., Kurata, Y., Nara, A., Hamada, Y., Yamazaki, Y. (2006) "Investigating geographic information science education systems at universities in North America." *15th Geographic Information Systems Association of Japan Annual Meeting*, Tokyo, Japan, CDROM, No. 70, pp. 1-4. (in Japanese)
- Takahashi, T., Kawabata, M., Kanemoto, Y., Tabuchi, T. (2006) "Study on central city invigoration." *CSIS Days 2006: National Cooperative Use Research Conference*, Tokyo, Japan, Research Abstract Proceedings, p. 77. (in Japanese)
- Asami, Y., Ota, M., Arikawa, M., Kawabata, M., Ito, F., Ikoma, E., Shiraishi, Y., Shimizu, C. (2006) "Standardization of the next generation type of real estate information corresponding to spatial variability." *CSIS Days 2006: National Cooperative Use Research Conference*, Tokyo, Japan, Research Abstract Proceedings, p. 75. (in Japanese)
- Kawabata, M. (2006) "Analysis of commuting inequality between cars and public transit using spatial information." *CSIS Days 2006: National Cooperative Use Research Conference*, Tokyo, Japan, Research Abstract Proceedings, p. 66. (in Japanese)
- Kawabata, M., Shen, Q. (2006) "Spatio-temporal analysis of job access inequality between car and public transit." *44th Annual Conference of the Urban and Regional Information Systems Association*, Vancouver, British Columbia, Canada, pp. 1-14.
- Kawabata, M. (2006) "Analysis of commuting inequality between car and public transit using GIS." *Proceedings of the General Meeting of the Association of Japanese Geographers*, No. 70, p. 116, Shizuoka, Japan. (Poster Session) (in Japanese)
- Kawabata, M., Shen, Q. (2006) "Job access inequality between car and public transit in the US." *2nd World Planning Schools Congress*, Mexico City, Mexico.
- Kawabata, M., Shen, Q. (2005) "Urban structure and commuting: evidence from US censuses 1990 and 2000." *Association of Collegiate Schools of Planning 46th Annual Conference*, Kansas City, Missouri, USA, pp. 1-20.

- Kawabata, M., Takahashi, A. (2005) "Job accessibility by commuting mode and time in the Tokyo metropolitan area." *Papers and Proceedings of the Geographic Information Systems Association in Japan*, Tokyo, Japan, Vol. 14, pp. 73-78. (in Japanese)
- Kawabata, M. (2005) "Applying spatial information systems to examining urban spatial structure and automobile dependency." *CSIS Days 2005: National Cooperative Use Research Conference*, Tokyo, Japan, Research Abstract Proceedings, p. 12 & Poster Session. (in Japanese)
- Kawabata, M., Shen, Q. (2005) "Examining accessibility inequality towards sustainable development and transportation." *International Geographical Union Commission on Monitoring Cities of Tomorrow Annual Conference*, Tokyo, Japan.
- Kawabata, M., Shen, Q. (2005) "Temporal and spatial dimensions of commuting in the San Francisco Bay Area." *Ninth International Conference in Computers in Urban Planning and Urban Management*, London, UK, No. 132, pp. 1-16.
- Kawabata, M. (2004) "GIS modeling of OD commuting times in Tokyo." *Geographic Information Systems Association in Japan 13th Annual Conference*, Tokyo, Japan. (Poster Session)
- Satoh, H., Kawabata, M., Oguchi, T., Okabe, A. (2004) "Investigation on items dealt with in Japanese GIS textbooks and comparison with those in English GIS textbooks." *Papers and Proceedings of the Geographic Information Systems Association in Japan*, Tokyo, Japan, Vol. 13, pp. 215-218. (in Japanese)
- Kawabata, M., Shen, Q. (2004) "Job access and commuting modes in U.S. and Tokyo metropolitan areas." *City Futures: An International Conference on Globalism and Urban Change*, Chicago, Illinois, USA, CDROM, pp. 1-16.
- Kawabata, M., Shen, Q. (2004) "Spatial variations in job accessibility: a comparison of U.S. and Tokyo metropolitan areas." *American Association of Geographers Centennial Meeting*, Philadelphia, Pennsylvania, USA.
- Kawabata, M., Oguchi, T., Okabe, A. (2003) "Investigating items in NCGIA and UCGIS curricula and GIS textbooks in English." *Papers and Proceedings of the Geographic Information Systems Association in Japan*, Tokyo, Japan, Vol. 12, pp. 475-480. (in Japanese)
- Kawabata, M., Furutani, T. (2003) "A spatial analysis of job access in Tokyo metropolitan area." *Association of Collegiate Schools of Planning and Association of European Schools of Planning Third Joint Congress*, Leuven, Belgium, pp. 1-18.
- Kawabata, M. (2003) "Job access and work: transportation barriers among autoless adults on welfare in Los Angeles." *Transportation Research Board 82nd Annual Meeting*, Washington DC, USA, No. 03-2581, pp. 1-20.
- Kawabata, M. (2002) "Access to jobs: transportation barriers faced by low-skilled autoless workers in U.S. metropolitan areas." *Association of Collegiate Schools of Planning Annual Conference*, Baltimore, Maryland, USA. (presented as a recipient of the Barclay Gibbs Jones Award for Best Dissertation in Planning)
- Kawabata, M. (2002) "Job accessibility by travel mode in U.S. metropolitan areas." *Papers and Proceedings of the Geographic Information Systems Association in Japan*, Tokyo, Japan, Vol. 11, pp. 115-120.
- Kawabata, M. (2001) "The importance of job accessibility in employment outcomes for low-skilled autoless workers in U.S. metropolitan areas." *Association of Collegiate Schools of Planning Annual Conference*, Cleveland, Ohio, USA, pp. 1-26.
- Kawabata, M. (2000) "Spatial accessibility and employment outcomes for poor autoless workers in the Boston metropolitan area." *Association of Collegiate Schools of Planning Annual Conference*, Atlanta, Georgia, USA, pp. 1-29.
- Shen, Q., Kawabata, M. (2000) "Reexamining the geography of urban labor market: a case study of the San Francisco Bay Area." *Proceedings of the Symposium on Integrated Land Use & Environmental Models*, College of Architecture and Environmental Design, Arizona State University, Phoenix, USA.

(Appeared in Shen, Q. and M. Kawabata (2003) in *Integrated Land Use and Environmental Models: A Survey of Current Applications and Research*.)

- Shen, Q., Kawabata, M. (2000) “Reexamining variations in travel behavior: an analysis of commute distance and duration in Boston metropolitan area.” *6th International Conference on Urban Transport and the Environment for the 21st Century*, Cambridge, UK.
- Kawabata, M., Shen, Q. (1998) “The effect of auto ownership on the employment outcomes of Boston metropolitan low-wage workers.” *Association of Collegiate Schools of Planning Annual Conference*, Pasadena, California, USA, pp. 1-9.
- Kawabata, M., Hibata, Y. (1997) “A study on the relationship between greenspace and land use changes in the inner urban area of Tokyo based on GIS data.” *Summaries of Technical Papers of Annual Meeting Architectural Institute of Japan*, F-1, pp. 669-670. (in Japanese)
- Kawabata, M., Endo, M., Osawa, K., Furutani, T., Havens, S., Hibata, Y. (1996) “Natural environmental and historical effects on land use in the inner urban areas of megacities: the case study of Tokyo.” *Proceedings of International Symposium on City Planning*, Taichu, Taiwan, pp. 1.1-1.11.

#### Articles:

- Kawabata, M. (2020) “Faculty Profile: Mizuki Kawabata.” *Sansyokuki, Keio Tsushin Hojo Text*, No. 831.
- Kawabata, M. (2015) “The appeal of GIS.” *Mita Hyoron*, No.1194, p. 39. (in Japanese)
- Kawabata, M. (2014) “Why are cities developed (1)-(10).” *Nihon Keizai Sshimbun (Nikkei)* March 3-7 and March 10-14. (in Japanese)
- Kawabata, M. (2010) “Next Square, Center for Spatial Information Science, The University of Tokyo: Spatial mismatch of supply and demand of child-care centers: a case study of Bunkyo City in Tokyo” *GIS Next*, Vol. 30, p.80. (in Japanese)
- Kawabata, M. (2009) “Welcoming on-campus child-care facilities!” *Tansei Hyouron* in *Gakunai Kouhou*, The University of Tokyo.
- Kawabata, M. (2006) “Next Opinion, Association of Japanese Geographers: Trend of GIScience education at universities in North America.” *GIS NEXT*, Vol. 17, p. 76.

#### Talks and lectures:

- 2021.2.16: “Earthquake risk reduction and residential land prices in Tokyo.” *The Urban Economics Workshop*, The University of Tokyo, Tokyo, Online.
- 2019.5.24: “Intra-metropolitan spatial patterns of female labor force participation and commute times in Tokyo.” *Housing Economic Seminar*, Tokyo International Forum, Tokyo, Japan.
- 2019.4.5: “Intra-metropolitan spatial patterns of female labor force participation and commute times in Tokyo.” *162th Regional Science Workshop*, Tohoku University, Tokyo, Japan.
- 2018.11.16: “Intra-metropolitan spatial patterns of female labor force participation and commute times in Tokyo.” *National Statistics Center: Joint Research Meeting*, The Institute of Statistical Mathematics, Tokyo, Japan. (in Japanese)
- 2018.10.31: “GIS use in urban and regional analysis and its potential.” *Regional General Laboratory: Open Seminar*, Dokkyo University, Saitama, Japan. (in Japanese)
- 2018.8.29: “Economic geography: spatial thinking exercise with GIS.” *Trial Class for Keio High School Students*, Keio University, Tokyo, Japan. (in Japanese)
- 2018.7.4: “GIS use in urban and regional research.” *Regional General Laboratory: Seminar*, Dokkyo University, Saitama, Japan. (in Japanese)

- 2018.6.15: “The use of GIS and spatial data.” PORT2030 Seminar, Ministry of Land, Infrastructure and Transport Government of Japan, Tokyo, Japan. (in Japanese)
- 2017.3.6: “Spatial dimensions of intra-metropolitan disparities in commuting time and female labor force participation in Tokyo.” Policy Modeling Workshop, National Graduate Institute for Policy Studies, Tokyo, Japan. (in Japanese)
- 2017.1.6: “Spatial dimensions of intra-metropolitan disparities in commuting time and female labor force participation in Tokyo.” Applied Economics Workshop, Keio University, Tokyo, Japan. (in Japanese)
- 2016.12.18: “The appeal of GIS.” TEDxKeioHighSchool, Keio University, Kanagawa, Japan. (in Japanese)
- 2016.9.23: “The use of GIS in real estate market analysis.” Seminar on Real Estate Economic Analysis, Real Estate Transaction Improvement Organization, Tokyo, Japan. (in Japanese)
- 2016.9.21: “Childcare access and employment among women with preschool-aged children in Tokyo.” Housing Economic Seminar, Tokyo International Forum, Tokyo, Japan. (in Japanese)
- 2016.9.1: “The use of GIS in economic analysis.” Trial Class for Keio High School Students, Keio University, Tokyo, Japan. (in Japanese)
- 2016.5.27: “Earthquake risk and land price: the use of GIS in hedonic approach.” GIS Community Forum, Tokyo Midtown, Tokyo, Japan. (in Japanese)
- 2015.1.17: “University faculty career paths and jobs.” Career Course, Keio Chutobu Junior High School, Tokyo, Japan. (in Japanese)
- 2014.3.5: “Childcare access and employment among women with preschool-aged children in Tokyo.” UCLA Luskin Public Affairs, University of California, Los Angeles, USA.
- 2013.12.20: “Access to childcare and the employment of women with preschool-aged children in Tokyo.” Kansai Labor Workshop, Osaka University, Osaka, Japan. (in Japanese)
- 2013.4.19: “Economic geography: basic and applications of GIS (Geographic Information Systems).” 2013 High School and University Consecutive Course, Keio Senior High School, Kanagawa, Japan. (in Japanese)
- 2013.2.16: “Access to childcare and the employment of women with preschool-aged children in Tokyo.” Policy Modeling Workshop, National Graduate Institute for Policy Studies, Tokyo, Japan. (in Japanese)
- 2012.11.9: “Access to childcare and the employment of women with preschool-aged children in Tokyo.” Empirical Lunch, Keio University, Tokyo, Japan. (in Japanese)
- 2012.5.25: “Childcare access and attaining desired employment: the case of women with preschool-aged children in Tokyo.” Seminar, National Institute of Population and Social Security Research, Tokyo, Japan. (in Japanese)
- 2012.4.20: “Childcare access and attaining desired employment: the case of women with preschool-aged children in Tokyo.” Global COE and Public Economics Seminar, Keio University, Tokyo, Japan. (in Japanese)
- 2012.1.24: “Childcare access and attaining desired employment: the case of women with preschool-aged children in Tokyo.” The Regional Economics Workshop, Nagoya University, Aichi, Japan. (in Japanese)
- 2010.12.11: “Road to a female researcher or professional (a panelist).” Symposium by four departments at Mita Campus and Keio Girls Senior High School, Tokyo, Keio Girls Senior High School, Tokyo, Japan. (in Japanese)
- 2010.06.04: “Analysis of spatial mismatch of the supply and demand of child-care centers.” Sixth GIS Community Forum, Tokyo Midtown, Tokyo, Japan. (in Japanese)
- 2008.07.24: “Transportation and modal accessibility disparity.” MIT Advanced Japan Design Workshop 2008, Sekisui House Kojimachi Studio, Tokyo, Japan.

- 2008.07.02: “Spatial Information Science and spatio-temporal socio-economic research.” Urban Analysis Class, Department of Architecture, Tokyo University of Science Noda Campus, Chiba, Japan. (in Japanese)
- 2008.03.26: “Transportation in Tokyo.” UCLA Planning Students Tokyo Trip 2008: Welcome Talk, The University of Tokyo Kashiwa Campus, Chiba, Japan.
- 2008.03.05: “Spatiotemporal dimensions of modal accessibility disparity.” Urban Economics Workshop, Graduate School of Economics, The University of Tokyo Hongo Campus, Tokyo, Japan. (in Japanese)
- 2008.02.16: “Grant-in-Aid for Scientific Research (A) Establishment of GIScience education methods: 2007 activity report.” Seminar on GIScience Education Methods, The University of Tokyo Kashiwa Campus, Chiba, Japan.
- 2007.07.10: “Investigation of urban spatial structure and automobile dependence in Japan and the US towards sustainable urban development” 2007 Seminar of Research Findings Granted by the Asahi Glass Foundation, Square Kojimachi, Tokyo, Japan. (listed in the proceedings of this seminar, p. 60) (in Japanese)
- 2007.03.09: “Information on GIScience education in the U.S.” Fourth Workshop on Development of Core Curricula and Contents of Geographic Information Science, The University of Tokyo Hongo Campus, Tokyo, Japan. (in Japanese)
- 2007.02.03: “2006 Activity Report.” Whole Report Meeting for the Grant-in-Aid for Scientific Research (A): Establishment of GIScience Education Methods, The University of Tokyo Kashiwa Campus, Chiba, Japan. (in Japanese)
- 2006.12.07: “Introducing research using GIS and spatial data.” Japan International Cooperation Agency (JICA) ‘Training in Japan for the Project for Developing the Small Area Statistical Information System’ (Statistics Indonesia of The Republic of Indonesia (BPS)), The University of Tokyo Kashiwa Campus, Chiba, Japan.
- 2006.06.08: “Report on GIScience education system in North America.” Tenth Meeting for Study on GIScience Education, University of Tsukuba, Ibaraki, Japan. (in Japanese).
- 2006.03.20: “GIS curricula abroad and cooperation possibility.” Workshop on Geographic Information Science Curricula, The University of Tokyo Hongo Campus, Tokyo, Japan.
- 2005.12.13: “Urban spatial structure and commuting behavior: a case of San Francisco.” 7th Wine Seminar, Group of Socio-cultural and Socio-physical Environmental Studies, Department of Environmental Studies, Graduate School of Frontier Sciences, The University of Tokyo Hongo Campus, Tokyo, Japan.
- 2005.09.28: “Spatio-temporal dimensions of commuting by car and public transit.” Workshop on GIS and Spatial Analysis, The University of Tokyo Hongo Campus, Tokyo, Japan.
- 2005.09.26: “Report 1: study on core curriculum development – the first draft.” (joint with Atsuyuki Okabe) Workshop on GIScience Curricula, The University of Tokyo Hongo Campus, Tokyo, Japan.
- 2005.09.22: “American urban structures” First Workshop on Central City Invigoration Policies, The University of Tokyo Hongo Campus, Tokyo, Japan. (in Japanese)
- 2005.09.08: “Investigation of U.S. GIScience education in San Diego: ESRI Education and International User Conferences and San Diego State University.” Fourth Meeting for Study on GIScience Education, University of Tsukuba, Ibaraki, Japan. (in Japanese)
- 2005.07.20: “Thinking sustainable urban structure and transportation from an accessibility point of view.” Asahi Glass Foundation Research Assistance Symposium 2005, United Nations University, Tokyo, Japan.
- 2005.01.19: “Empirical analysis of spatial and transportation mismatches.” Urban Economics Workshop, Graduate School of Economics, The University of Tokyo Hongo Campus, Tokyo, Japan. (in Japanese)



- 2004.12.09: “Empirical analysis of spatial and transportation mismatches using GIS.” GIS Seminar, Division of Spatial Information Science, Graduate School of Life and Environmental Sciences, University of Tsukuba, Ibaraki, Japan. (in Japanese)
- 2004.11.18: “Spatial and transportation mismatches in American cities.” Graduate School of Media and Governance, Keio University Shonan-Fujisawa Campus, Kanagawa, Japan. (in Japanese)
- 2004.10.19: “Job accessibility as an indicator of auto-oriented urban structure: a comparison of US cities with Tokyo.” MIT Course 11.522: Research Seminar on Planning Support Systems, MIT, Cambridge, Massachusetts, USA.
- 2004.08.24: “GIS core curricula and GIS certification.” GIS Day in Kansai 2004, Ritsumeikan University Kinugasa Campus, Kyoto, Japan. (in Japanese)
- 2004.08.03: “Learning at multi campus.” Experience Courses for High School Students, Keio University Mita Campus, Tokyo, Japan. (in Japanese)
- 2003.11.13: “Empirical studies on urban structures and urban and transportation planning.” Graduate School of Media and Governance, Keio University Shonan-Fujisawa Campus, Kanagawa, Japan. (in Japanese)
- 2003.11.07: Panel Discussion, Meeting on the Day of Civil Engineering, Tochigi Kaikan, Tochigi, Japan. (in Japanese)
- 2003.11.04: “Mizuki Kawabata’s research.” Faculty Seminar, Institute of Policy and Planning Sciences, University of Tsukuba, Ibaraki, Japan. (in Japanese)
- 2002.12.05: “Introducing doctoral dissertation.” Graduate School of Media and Governance, Keio University Shonan-Fujisawa Campus, Kanagawa, Japan. (in Japanese)
- 2002.02.02: “Geographic Information Systems (GIS): basics and applications in the planning context.” Boston Japanese Researchers Forum, Boston, Massachusetts, USA. (in Japanese)

#### **Grants (principal investigator):**

- 2020-2023: “The use of GIS and tools of spatial statistics and spatial econometrics for urban and regional economic analysis.” Grant-in-Aid for Scientific Research (C), Japan Society for the Promotion of Science.
- 2020: “Spatial econometric analysis of disaster risk and land price using GIS and spatial panel data.” Research Grant, Japan Center for Economic Research.
- 2019-2020: “Economic and policy analyses using GIS and spatial and temporal data.” Individual Research Grant A, Keio Gijuku Academic Development Funds, Keio University.
- 2018-2019: “The use of GIS and spatial statistics tools for economic and policy analysis.” Individual Research Grant B, Keio Gijuku Academic Development Funds, Keio University.
- 2016-2019: “Urban spatial structure and female labor force participation: a study by GIS and spatial statistics tools.” Grant-in-Aid for challenging Exploratory Research, Japan Society for the Promotion of Science.
- 2013-2016: “Methods of the use of GIS and spatial data in economic analysis of urban policy.” Grant-in-Aid for Scientific Research (B), Japan Society for the Promotion of Science.
- 2012-2013: “Teaching methods of GIS use in urban and regional economic analysis.” Individual Research Grant A, Keio Gijuku Academic Development Funds, Keio University.
- 2010-2012: “Analysis of availability of quality childcare centers and work willingness and behavior of families with small children.” Grant-in-Aid for Scientific Research (C), Japan Society for the Promotion of Science.

- 2008-2009: “Importance of accessibility to child-care centers in balancing work and child rearing for working mothers.” Grant-in-Aid for Young Scientists (B), Japan Society for the Promotion of Science.
- 2007: “The method of cooperation between geography and other fields in Geographic Information Science education.” History and Geography Grant, Fukutake Science and Culture Foundation.
- 2006: Travel Grant for International Conference, Japan Society for the Promotion of Science.
- 2006-2008: “International study on urban and regional structure that reduces transportation environment load, applying geographic information science.” Grant-in-Aid for Young Scientists (B), Japan Society for the Promotion of Science.
- 2005-2007: “Investigation of urban spatial structure and automobile dependence in Japan and the US towards sustainable urban development.” Research Grant, Asahi Glass Foundation.
- 2004: Travel Grant for International Conference, Asahi Glass Foundation.
- 2003-2004: “A comparison of urban spatial structure based on transportation and job accessibility between Japan and the U.S.” Research Grant, Center for Spatial Information Science, The University of Tokyo.
- 2003: Travel Grant for International Conference, American Studies Foundation.
- 2002-2003: “A comparative study on job accessibility by travel mode.” Research Grant, Center for Spatial Information Science, The University of Tokyo.

**Grants (co-investigator):**

- 2010-2012: “Urban transformation programs for achieving a bright and low carbon society.” Adjusting Grant for Science and Technology Promotion, Japan Science and Technology Agency. (PI: Eiji Hihara)
- 2009-2014: “Research on education methods and the development of educational materials for geospatial thinking based on Geographic Information Science core curricula.” Grant-in-Aid for Scientific Research (A), Japan Society for the Promotion of Science. (PI: Yasushi Asami)
- 2008-2013: “Research on urban and regional policy in the degradation time, based on new economic geography.” Grant-in-Aid for Scientific Research (B), Japan Society for the Promotion of Science. (PI: Takaaki Takahashi)
- 2007-2009: “Standardization of the next generation type of real estate information corresponding to temporal and spatial variability.” Grant-in-Aid for Exploratory Research, Japan Society for the Promotion of Science. (PI: Yasushi Asami)
- 2006-2009: “Spatial economic analysis of urban spatial structure centering on central city issues.” Grant-in-Aid for Scientific Research (B), Japan Society for the Promotion of Science. (PI: Yoshitsugu Kanemoto)
- 2006-2008: “Study on the effect of transport infrastructure investment on economic geography.” Grant-in-Aid for Scientific Research (C), Japan Society for the Promotion of Science. (PI: Takaaki Takahashi)
- 2006: “Standardization of the next generation type of real estate information corresponding to spatial variability.” Grant-in-Aid for Scientific Research (C): Planning and Research, Japan Society for the Promotion of Science, 3,400,000yen. (PI: Yasushi Asami)
- 2005-2009: “Establishment of GIScience education methods: how to teach GIS at universities effectively.” Grant-in-Aid for Scientific Research (A), Japan Society for the Promotion of Science, 38,100,000yen. (PI: Yuji Murayama)
- 2005-2008: “Development of curricula for Geographic Information Science and a sustainably collaborative web library system for serving the materials of the curricula.” Grant-in-Aid for Scientific Research (A), Japan Society for the Promotion of Science, 41,000,000yen. (PI: Atsuyuki Okabe)

- 2005-2006: “Application of GIS to urban risk education and research.” GIS Use Support Program for Universities, ESRI Japan. (PI: Tsutomu Suzuki)
- 2004-2006: “Investigation of transit-oriented urban spatial structure with urban engineering methods.” Research Grant, Nihon-Shoken Scholarship Foundation, 950,000yen. (PI: Tsutomu Suzuki)
- 2004-2005: “Development of risk-adaptive urban space management methods for safe and secure society.” Research Grant, School of Systems and Information Engineering, University of Tsukuba, 1,700,000yen. (PI: Tsutomu Suzuki)
- 2004: Travel Grant for International Conference, 21st Century Center of Excellence Program of the Ministry of Education, Culture, Sports, Science and Technology: Sustainable Urban Regeneration, The University of Tokyo. (Base Leader: Shinichiro Ohgaki)

**Qualifications:**

- GIS Professional (GISP) certified by the GIS Certification Institute (2005)
- TOEFL 620 (1996)
- First-Class Skier’s License certified by the Ski Association of Japan (1987)