

Tokyo Metropolitan University
Department of Urban Science and Policy

2021FY Annual Report

■ Staff List of the Department of Urban Science and Policy, Faculty of Urban Environmental Sciences(in alphabetical order of the family name)

Shin AIBA, Professor
Chisato ASAH, Professor
Taro ICHIKO, Professor
Fumiko ITO, Professor
Akira KANEKO, Associate Professor
Akinobu MASUMURA, Assistant Professor
Nozomi MATSUI, Professor
Motoi NAGANO, Associate Professor
Mami OKU, Professor
Sigemi OHTSUKI, Associate Professor
Ken SHIRAIISHI, Professor
Yoko SUGUHARA, Associate Professor
Masashi TAKAMICHI, Assistant Professor
Hidenori TAMAGAWA, Professor
Kahoruko YAMAMOTO, Associate Professor

Prof. Tamagawa were retired by the age limit in March of 2022.

<< Shin AIBA >>

1) Staff

Shin AIBA Professor/Dr. Eng.
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2) Overview of Research Activities in 2021FY

1. Research on earthquake reconstruction

Shin AIBA

I conducted a survey of the actual reconstruction process after the Great East Japan Earthquake and researched reconstruction planning methods. Specifically, I investigated the actual conditions of spatial changes from the Showa Sanriku Tsunami to the post-earthquake reconstruction process in the Sanriku coastal areas, including the Ryori district of Ofunato City and the Otomo district of Rikuzentakata City, Iwate Prefecture. The results were presented at the Architectural Institute of Japan (2 papers), published as articles in the journal "Zokei", and furthermore, a report for the public was written. In addition, we studied methods to preserve the lessons of disaster recovery, and specifically, we held an exhibition at the Disaster Reduction and Human Renovation Institution (DRI) in Kobe, as well as a series of public study sessions. In addition, a book published in 2019 about this research received the Book Award from the Architectural Institute of Japan.

2. Research on urban planning in an era of declining population

Shin AIBA

I studied theoretical study of urban planning and urban space design methods in an era of declining population and planning techniques. Research was conducted on urban areas in Kagawa Prefecture, and the results were presented at an event held by the Zentsuji City and submitted to an academic journal. I also worked on the development of urban development methods in a residential area in Hachioji City. The results were summarized in a paper and published in the Journal of the City Planning Institute, the book "Introduction to Urban Planning for Architectural Majors", the journal "Urban Issues", and the journal "BIO CITY". In addition, a book published in FY2020 on this research received the Real Estate Association of Japan Award.

3. Comparative research on urban planning in East Asian countries

Shin AIBA

I undertook a comparative study of urban development policies in Taiwan, South Korea, and Japan since 2000 and conducted interviews with relevant parties. A book summarizing the results of the international comparative study of Seoul and Tokyo was published in Korea. I also organized a study group on the review of zoning in Tokyo, and conducted interviews and surveys.

4. Technologies to support machizukuri

Shin AIBA

I developed techniques for planning and designing with citizens. Specifically, I developed a method for citizen participation in the rehabilitation of public facilities in Tama New Town, developed a DIY workshop method that allows lay people to participate, and conducted research on a fund to support community development activities. The results were published in the AIJ Journal of Technology and Design and the Journal of the Architectural Institute of Japan, and a book was written.

5. research on cities and industries

I conducted research on the state of industrial space in cities. Specifically, I formed a research working group in the Architectural Institute of Japan and held public study sessions.

3) **List of Research Activities in 2021FY**

Shotaro Nishi and Shin Aiba: Town planning workshop using Minecraft, AIJ Journal of Technology and Design 28(68),pp.430-435, Architectural Institute of Japan,2022.2 (in Japanese)

<< Chisato ASAHI >>

1) **Staff**

Chisato ASAHI, Professor, Doctor of Urban Science

Urban and Environmental Economics, Evaluation Research, Cost-Benefit Analysis

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2) **Overview of Research Activities**

1) Evaluation Research : The following studies were conducted on economic analysis

and economic evaluation of public projects, as well as on the methodology and institutional design of evaluation research.

- A methodology for assessing local flood control vulnerability using the Flood Vulnerability Index (FVI) was studied. District-specific FVIs were derived using Hoi An City, Vietnam, as a case study, and the impact of uncertainty using the Fuzzy AHP was examined (see Research Activities Lists 3-1-4 and 3-2-2).
- 2) Social Overhead Capital Management : The following studies were conducted on the economic analysis and economic evaluation of evaluation of public projects and social overhead infrastructure, as well as the methodology and institutional design of providing infrastructure services in the region.
- Regarding the land price data used in the evaluation of social overhead capital improvements based on the capitalization hypothesis, a comparison of public land price data for residential area by revenue method and comparison method was conducted and clarified the influence of social overhead capital and other regional factors on the differences between the two methods (See Research Activities Lists 3-1-1 and 3-2-4).
 - A theoretical examination of the capitalization of social capital and municipal debt into land values in urban areas was conducted, and an empirical analysis by urban employment area revealed differences in capitalization of capital and debt by regions (see Research Activities lists 3-1-3).
 - As a method for evaluating the benefits of local public goods, a typology of public facility use was developed using latent class analysis. Discrete choice data from the partner municipalities in the joint research (Odawara City, Inuyama City and Aizu-Wakamatsu City) were used to clarify the attributes of users by facility type. This research is based on the results of the 'Construction of a support system for public asset management to make the region sustainable' (2016-2019) in Research for the Strategic Innovative Technology Research and Development (RISTEX). (See Research Activities Lists 3-1-2).
 - Research on the impact of the multifunctionality of urban facilities on regional sustainability included theoretical research on the museum-like functions of urban facilities and case studies of their actual and possible challenges (see Research Activities lists 3-2-1).
 - Regarding infrastructure management for sustainable regions, we structured the mechanism of Stadtwerke in Germany for the supply and management of public services by private entities using contract theory, and examined the pertinence of

the theoretical implications based on the characteristics of literature case studies. This study is based on the results of the "Research and Study on Sustainable Regional Infrastructure and Public Services" in which I participated as a visiting researcher (2018-2019) at the Policy Research Institute for Land, Infrastructure, Transport and Tourism (see Research Activities lists 3-2-3).

- An economic evaluation of the benefits of the natural parks in Tokyo was carried out using the travel cost method, as well as a study on the relationship with health benefits and evaluation methods (see Research Activities lists 3-2-5).

3) List of Research Activities in FY 2020

1. Peer-reviewed papers

- 1) Miwa Ebisu and Chisato Asahi, "Differences in the land value of residential area based on sales comparison approach and income capitalization approach: Analysis using the appraisal reports of the Land Market Value Publication in Tokyo", Journal of Japan Land and Environment Institute, Vol.22 (in press)
- 2) Toshihide Matsumura and Chisato Asahi, "An Analysis of Trends and Types of Public Facility Use", Studies in Regional Science, Volume 52, Issue 1 (in press)
- 3) Miwa Ebisu, Toshihide Matsumura, and Chisato Asahi, "Impact of capitalization of local fiscal expenditure on land prices -Analysis of regional differences-", Studies in Regional Science (under review)
- 4) Thuy Linh Nguyen; Chisato Asahi; Thi An Tran; Ngoc Hanh Le, "Indicator-based approach for flood vulnerability assessment in ancient heritage city of Hoi An, Central Region of Vietnam", Nature Hazards (under review)

2. Proceedings of oral presentations

- 1) Noriko Horie, Kiyoko Hagihara, Fumiko Kimura, Chisato Asahi, "Contribution of Urban Facilities for Regional Sustainability through Museum-like Functions", the 13th World Congress of the RSAI, 25-28 May 2021. (online)
- 2) Thuy Linh Nguyen; Chisato Asahi; Thi An Tran; Ngoc Hanh Le, "Generation of indicators to assess the flood vulnerability index at district scale of Hoi An city in the Central region of Vietnam", The International Conference on Geo Informatics for Spatial-Infrastructure Development in Earth & Allied Sciences (GIS-IDEAS), 2 August 2021. (online)
- 3) Chisato Asahi and Yoriko Tsuchiya "Institutional design of comprehensive provision for sustainable local public service, Collected Papers for Presentation In the 58th Annual Meeting of the Japan Section of the RSAI, Kochi University (online), JAPAN

October 8-10, 2021 (in Japanese)

- 4) Miwa Ebisu and Chisato Asahi, “Differences in the land value of residential area based on sales comparison approach and income capitalization approach; Analysis using the appraisal reports of the Land Market Value Publication in Tokyo”, 2021 Annual Conference of Japan Land and Environment Institute, Chubu University (on-site), November 27th (in Japanese)
- 5) Shigeo Kitano and Chisato Asahi, “Study on benefit estimation of the use of natural parks”, the 18th poster session in 2021th Conference on Environmental Information Science, December 6-12th (online)

3. Others

3-1. Technical books

- 1) Chisato Asahi and Noriko Horie ed. “Toward Sustainable Regions - Essays in Honor of Kiyoko Hagihara”, New Frontiers in Regional Science: Asian Perspectives series, Springer. (in press)

3-2. Monographs

- 1) Chisato Asahi “Report on Green Infrastructure”, in Research Project Meeting of “Research on sustainable use of natural tourist attractions”, The Japan Research Center for Transport Policy, September 24th (in Japanese)
- 2) Chisato Asahi "Analysis on institutional design for a comprehensive supply scheme for regional public services" in the Fourth Meeting of Spatial System Research Unit The Institute of Economics, Chuo University, February 19th, (online) (in Japanese)

3-3. Commentary/essays, Book review

- 1) Chisato Asahi” The value of 'infrastructure integration'”, in Suimei, Mizusumashi, No185, Summer, 2021, Japan Sewage Works Agency
- 2) Chisato Asahi “Integrated evaluation of the various effects and efficiencies of policies - based on a review of target-based evaluation”, News Letter vol.027, February 2022, The Institute for Tokyo Municipal Research.

3-4. Others

4) **Funded Research Projects (Competitive Research Funds, etc.)**

1. KAKENHI (Grant-in-Aid for Scientific Research)

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2. Others

- 1) a visited researcher in a research project, “Fundamental research and studies on the development of prosperous, easy-living communities” organized by Policy Research Institute for Ministry of Land, Infrastructure, Transport and Tourism”

<< Taro ICHIKO >>

1) Staff

Taro ICHIKO

Professor/ Doctor of Urban Science

Urban Planning, Disaster Research, Hazard Mitigation Planning

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2) Overview of Research Activities in 2021FY

1. Research of a long-term recovery for housing and building environment

The impact of natural disasters took a long time to recovery life, livelihood, housing and building environment. How do people recover their housing, life and livelihood? How do people adapt rapid and serious changes by the natural hazard? Our laboratory engaged in the long-term survey after big natural disasters especially the 2011 Great East Japan Earthquake and the 2016 Kumamoto earthquake.

We have been continuing to visit the disaster-stricken area and interviewed stakeholders in the Great East Japan Earthquake and Kumamoto earthquake.

2. Community Resiliency Studies in Tokyo

From the viewpoint of urban planning, we are conducting research risk mitigation strategy for natural disaster. In particular, we were focused on creating a community that is resilient and rapidly recovering from the disaster. That means to pre-disaster planning for reconstruction.

In fiscal 2021, we carried out an action-research on Aoyama district, Minato Ward, Tokyo.

3. Risk communication Studies

To protect ourselves from tsunamis and typhoons, it is inevitable for each person to evacuate and act. But natural disaster has difficulties of uncertainty and information imperfection. It can be said that it is necessary to improve the decision-making ability to cope

with disasters from the normal time. It's also just the risk-communication study.

We are engaged in an action research at Kamiyugi and Minami-Ohsawa district in Hachioji City. And we were also engaged in the research for disaster prevention leader training in the Machida city.

3) List of Research Activities in 2021FY

1. Peer reviewed paper

1. Taro ICHIKO, Maki MIYANO, Ryo SANUKI, Shigeaki KITAJIMA, Jin YOSHIKAWA and Shigeru HIRAKI: A study of hilly-suburb community resilience to enhancing adaptive capacity for landslide risk - A case report in Hachioji city, Tokyo- , Journal of Social Safety Science, No.39, pp.299-308, November, 2021 (in Japanese)

2. Proceedings of oral presentation

- 1) Taro ICHIKO, A case study of making a BCP quick-action sheet for small business, Proceedings of the Annual conference of the Institute of Social Safety Science, No.48, pp.101-104, 2021 (in Japanese)

3. Others

3-1. Technical books

3-2. Monographs

3-3. Commentary/essays, Book review

4) Funded Research Projects (Competitive Research Funds, etc.)

1. KAKENHI (Grant-in-Aid for Scientific Research)

As a Principal Investigator : Grant-in-Aid for Scientific Research (C), As a Principal Investigator : A comparative study of Pre-disaster planning for post-disaster recovery between U.S.and Japan, 2021-2024.

2. Others

As a Principal Investigator : Development of BCP sheet in Arakawa ward, Research Fund of Arakawa Industry Vitalization, Project Year: Apr 2021 - Mar 2022

<< Fumiko ITO >>

1) **Staff**

Fumiko ITO

Professor / Dr. Eng.

Urban Planning, Urban and Regional Analysis, Analysis of Residential Environment,
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2) Overview of Research Activities in 2021FY

1 Urban area analysis, research of psychology and behavior

Fumiko Ito

The condition of the city, citizen's evaluation of environment and the relationship between those are analyzed to get suggestion for creating comfortable environment. Following topics were researched in 2021 FY.

- i) Quantitative comparison of day and night psychological evaluation of street environment
- ii) Quantitative analysis of differences in impression of shopping area due to cultural experience
- iii) Proposal of System for Calculating Sky View Factor Using Google Street View
- iv) Cost-Benefit analysis of river embankment covering as a green infrastructure

2 Housing choice, living behavior of residents

Fumiko Ito

Housing choice and living behavior of residents are analyzed to clarify the demand of residential service. Relationship between residential environment and housing choice, behavior of residents were analyzed.

Following topic was researched in 2021 FY.

- v) Condition and situation of high aged condominium in Tama city, Hachioji city and Machida city

3) List of Research Activities in 2021 FY

1. Peer-reviewed papers

2. Proceedings of Oral Presentations

LIU Haoyan, ITO Fumiko and NISHIO Shoko

A study on the impression of the appearance of stores: based on ornaments of the stores

and experience of living in Japan.

Summaries of Technical Papers of Annual Meeting, the Architectural Institute of Japan (in Japanese).

Yukinori KAI, Fumiko ITO, Ichiro AOKI and Masumi MATSUMOTO

Relationship between the structure of living environment satisfaction of elderly condominium residents and building factors / resident attributes.

Summaries of Technical Papers of Annual Meeting, the Architectural Institute of Japan (in Japanese).

3. Others

3-1. Technical books

3-2. Research report

Masumi MATSUMOTO, Fumiko ITO, Ichiro AOKI and Hiroyuki YOSHINO

“Survey report on the actual conditions of aged condominiums by region and age and the direction of regeneration -Hachioji City, Machida City, Tama City”

Joint research with Housing and Community Foundation (in Japanese)

3-3. Award

National Building Examination Board Council Award

Urban Housing Society Book Award

Yasushi Asami, Yoshiro Higano and Hideo Fukui(eds.), "New Frontiers in Regional Science: Asian Perspectives: Frontiers of Real Estate Science in Japan", Springer.

Co-author of Chap.22, 'Proposal of System for Calculating Sky View Factor Using Google Street View'.

4) Funded Research Projects (Competitive Research Funds, etc.)

4-1.KAKEN-HI (Grant-in-Aid for Scientific Research)

Grant-in-Aid for Scientific Research S. 'Residential Environment Effect on Brain, Circulatory, Respiratory and Motile Organ: benefit evaluation of disease prevention', (Principal-Investigator: Professor Ikaga, T., Keio University), 2017-2021FY, Co-Investigator.

4-2.Others

Joint research "Survey research on the actual conditions of aged condominiums by region and age and the direction of regeneration" (Research representative: Masumi Matsumoto), 2019-2021 FY, Co-Investigator.

<< **Akinobu MASUMURA** >>

1) Staff

Akinobu MASUMURA, Assistant Professor/ Ph.D. in Engineering
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2) Overview of Research Activities

1. Research on Community Recovery in Areas Affected by the Fukushima Daiichi Nuclear Power Plant Accident

In Odaka-Ku, Minamisoma City, Fukushima Prefecture, we interviewed residents about their daily lives and village management after their return or relocation. We also interviewed a local official regarding their support for resettlement. Furthermore, I collected data on land-use change from local government offices and other sources. In addition, to compare the recovery process with other disasters, I visited the areas affected by the Kumamoto earthquake, the area affected by the July 2020 torrential rain, and the area damaged by the pollution (Minamata City). Part of this research is conducted in collaboration with the researchers and students of the University of Tokyo.

2. Research on Industrial Recovery in the Areas Affected by the Great East Japan Earthquake and Tsunami

I wrote a research report on the relationship between post-disaster and Business Recovery in the Tsunami Affected Urban Area after the Great East Japan Earthquake and Tsunami and presented it at an academic symposium.

3. Research on Urban Design and Management Focusing on Human Flow

Based on pedestrian trajectory data from laser sensors in the Minato Mirai 21 district of Yokohama, we researched a method to classify the use of public space, wrote a paper, and presented it at a conference. We also analyzed methods for estimating pedestrian flow in the district based on smartphone location data. This research is joint research with the Urban Environment Management Planning Laboratory, Yokohama National University.

3) List of Research Activities in 2021FY

1. Peer reviewed paper

- Horigome, Y., Kubota, A., Masumura, A., Refining Analysis of Convenience Goods Accessibility by Introducing Inclusion Line: from Perspectives of Compact City in Regional Midsize Cities, *Journal of the City Planning Institute of Japan*, 56(1) 189-200, Apr 25, 2021
- Masumura, A., Sadohara, S., Proposal of a Classification Method for Public Usage Based on Pedestrian Trajectory Data. *Journal of Architecture and Planning (Transactions of AIJ)*, 87(792) 476-486, Feb 1, 2022

2. Oral presentations

- Masumura, A., Post-disaster Urban Planning and Business Recovery in the Tsunami Affected Urban Area after the Great East Japan Earthquake and Tsunami, the Panel Discussion in Annual Convention of the Architectural Institute of Japan, Sep 7, 2021
- Masumura, A., Sadohara, S., A Trial of Public Space Usage State Classification Based on Pedestrian Trajectory Data: Using data measured in the Yokohama Minato Mirai 21 area in 2019 and 2020, Annual Convention of the Architectural Institute of Japan, Sep 9, 2021

3. Others

3-2. Research report

- Masumura, A., Another Purpose of Post-disaster Urban Planning from the Trade-off between Business Continuity and Reconstruction of Tsunami-affected Urban Districts, the Proceedings of the Panel Discussion in Annual Convention of the Architectural Institute of Japan, Sep, 2021

3-4. Others

Awards

- Prize for Doctoral Thesis from the City Planning Institute of Japan
Post-disaster Urban Planning and Small Business Dynamics in the Tsunami Affected Urban Area after the Great East Japan Earthquake and Tsunami
- The Housing Research Foundation Prize for Doctoral Thesis
Post-disaster Urban Planning and Small Business Dynamics in the Tsunami Affected Urban Area after the Great East Japan Earthquake and Tsunami

4) Funded Research Projects (Competitive Research Funds, etc.)

4-1. KAKENHI (Grant-in-Aid for Scientific Research)

- Grant-in-Aid for Early-Career Scientists (04/2021-03/2026) (Principal Investigator)

4-2. Others

- Suntory Foundation's Grant for Collaborative Research in Humanities and Social Sciences
(08/2021-07/2022) (Co-Investigator)
- Nippon Life Insurance Foundation's Research Grant for Young Researchers
(10/2021-09/2022) (Co-Investigator)
- Collaborative Researcher of the Organization for Local Collaboration Networking,
Yokohama National University (04/2021-03/2022)

<< Nozomi MATSU >>

1) Staff

Nozomi MATSUI Professor / M.A. Law

Public Administration

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2) Overview of Research Activities in FY 2020

1. A study of personnel management for female local officials.
2. A study of Technical staff in Local Government
3. A study of Intergovernmental support for staff after the Great East Japan Earthquake.
5. A study on coordination system between Tokyo Metropolitan Government and 23 cities in the metropolitan area.

3) List of Research Activities in FY 2018

1. Peer-reviewed papers
2. Proceedings of oral presentations
3. Others
 - 3-1. Technical books
 - 3-3. Monographs
 - 3-4. Commentary/essays

- Nozomi MATSUI, “After dispatch trend”, Junro, NISHIDE ed. Great East Japan Earthquake and support staff, 2021., pp.62-73 [in Japanese].
- Nozomi MATSUI, “Trends of support staff as seen from interview surveys, 2021. Junro, NISHIDE ed. Great East Japan Earthquake and support staff, 2021, pp.85-109 [in Japanese].
- Nozomi MATSUI, “Staff participation in municipal planning and human resource development ” , Dissemination of Information from Local Autonomy Colleges , Vol.33, pp.6-11. [in Japanese].
- Nozomi MATSUI, “Setagaya city Administration's Response to the Corona Disaster ” , Journal of Urban Social Studies, Vol.14 [in Japanese].

4) Grants-in-Aid for Scientific Research

4-1. KAKENHI (Grant-in-Aid for Scientific Research)

- Scientific Research (C), “Intergovernmental support for staff after the Great East Japan Earthquake” 2017-2021.
- Scientific Research (C) , “Coordination system between Tokyo Metropolitan Government and 23 cities in the metropolitan area” 2017-2021.
- Scientific Research (B) , “Cooperation and Collaboration among Multiple Administrative Entities Based on Comparative Case Analysis” 2019-2021.
- Scientific Research (B), “Study on present situation and challenges of self-government in the mountainous areas of Japan”, 2019-2022.
- Scientific Research (C) “A Study on the Secretariat Organization in Japanese Municipalities - the Picture and Function of Finance Section in Japanese Prefectural Governments”, 2019-2021.
- Scientific Research (B), “Factors Promoting and Inhibiting the Appointment of Women in the Public Sector”, 2020-2023.
- Scientific Research (C) “A Study on the Occurrence and Response of Administrative Burdens in Administrative Procedures between Central and Local Governments”, 2021-2023.

4-2. Others

- Nomura Foundation “Personnel management for female local officials” 2017-2022. (Co-Investigator)

<< Motoki NAGANO >>

1) Staff

Motoki Nagano

Associate Professor / M.A. Political Science

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2) Overview of Research Activities in FY 2021

This year, I continued my ongoing research on urban governance, with a focus on three topics.

Topic 1: Citizen Participation in Urban Governance

In the field of deliberative democracy, “Mini-publics,” or limited but intensive engagements of citizens recruited via random sampling from the resident register, is one of the primary issues. Therefore, I investigated how municipal governments in Tokyo Metropolis use these participation measures in their policy processes by conducting interviews and postal surveys.

Topic 2: Intergovernmental relationships

Using an oral history approach, I examined the dynamics of negotiation and mechanisms of consultation between the Tokyo Metropolitan Government and individual ward offices. Our research group issued an oral history report on the former deputy mayor of Meguro Ward, Masaru Suzuki.

Topic 3: International comparative studies

I researched the urban planning policies and decision-making processes of the Seoul Metropolitan Government, with the kind assistance of the Seoul Institute, a public research institution established by the Seoul Metropolitan Government. We published our collaborative research in a technical book (written in Korean).

3) List of Research Activities in FY 2021

1. Peer-reviewed papers

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2. Proceedings of oral presentations

Takumi Shimoyama, Motoki Nagano, and Tatsuro Sakano, “Recent Trends and Issues on Random Sampling and Deliberation-Based Citizen Engagements in Tokyo Metropolitan Municipalities,” at the 44th Annual National Convention, Japan Association for Planning and Public Administration, Session E-2 (Citizen Participation), November 14, 2021 (online) [in Japanese].

3. Other

As co-author

Jae-Seob Yang and Shin Aiba eds., *Tokyo as seen from Seoul, Seoul as seen from Tokyo: Comparison of Seoul–Tokyo Urban Spatial Policies in the 2000s* (서울이 본 도쿄, 도쿄가 본 서울 : 2000년대 서울·도쿄 도시공간정책 비교)

The Seoul Institute, Seoul, January 2022 [in Korean].

Specific contributions

Motoki Nagano, “Decentralization and Urban Planning in Autonomous Districts,” Chap. 5 pp. 253–272, in *ibid.* [in Korean].

3-2. Research reports/papers

Motoki Nagano, Hiroshi Inagaki, Nozomi Matsui, and Masatoshi Minowa, *The Oral History Report of Masaru Suzuki (ex-vice mayor of Meguro Ward, Tokyo Metropolis)*, supported by Grants-in-Aid for Scientific Research (KAKENHI) No. 17K03547, “Negotiation and Consultation Mechanisms Between the Tokyo Metropolitan Government and Ward Governments After Decentralizing Reforms in the Fiscal Year 2000,” March 2022 [in Japanese].

3-3. Monographs

Motoki Nagano, “The Enactment, Appraisal, and Revision of Local Assembly Fundamental Ordinance and Their Future Outlook,” *Governance*, no. 242, pp. 17–19, June 2021 [in Japanese].

3-4. Commentary/essays

Motoki Nagano, “Municipal Assembly Secretariats’ Function on Proceedings Assists and Good Local Governance,” *Local Autonomy Daily* (Jichinippo), Spring 7, 2022 [in Japanese].

Motoki Nagano, “Making Municipal Assembly Good User on Performance Measurements of Local Governments,” *Local Autonomy Daily* (Jichinippo), August 27, 2021 [in Japanese].

3-5. Book reviews

Motoki Nagano, Book review: Tatsuro Niikawa and Toshiaki Eto’s *Emergencies and Local Assemblies and Members: Can They Respond to the Crisis? Local Government Policy Studies*, vol. 35, no. 1, pp. 82, December 2021 [in Japanese].

Motoki Nagano, Book review: Toru Sato’s *Introduction to Evidence-Based Municipal Policy*, *Japan Reginal Policy Studies*, no. 27, pp. 130, September 2021 [in Japanese].

3-6. Panel invitations

Motoki Nagano, Speaker: “DOES MORE CITIZEN PARTICIPATION LEAD OUT OF THE DEMOCRACY CRISIS? INSTITUTIONALIZED CITIZEN DIALOG IN JAPAN AND GERMANY, The Future of Democracy II (Virtual Panel Discussion).”

Organizer: Japanese-German Center Berlin; Co-organizer: The Institute of East Asian Studies (IN-EAST) at the University of Duisburg-Essen, Spring 3, 2022 (online).

Motoki Nagano, Speaker: “The 20th Itabashi Citizens Forum for Collaboration – Corona Disaster and Municipalities,” Organizer: Itabashi-Forum Executive Committee, November 20, 2021 (Itabashi Culture Hall).

Motoki Nagano, Commentator: “Research Presentation Session Z2-6,” at the 35th Annual Conference of Local Government Policy Studies Association, August 22, 2021 (online).

Motoki Nagano, Commentator: “Session C2 – Citizen Participatory Workshop and Public Administration Studies,” at the Annual Conference of The Japanese Society for Public Administration, May 23, 2021 (online).

4) **Grants-in-Aid for Scientific Research**

(KAKENHI)

Principal Investigator, Scientific Research (C), No. 21K01325, “Empirical research on policy impacts by ‘Mini-publics’ citizen participation in Tokyo metropolitan municipalities,” FY 2021–2023.

Principal Investigator, Scientific Research (C), No. 17K03547, “Negotiation and Consultation Mechanisms Between Tokyo Metropolitan Government and Ward Governments After Decentralizing Reforms in the Fiscal Year 2000,” FY 2017–2021.

Co-investigator, Scientific Research (B), No. 18H01607, “Neo-liberalistic City Planning System: Their Results and Formation Process in East-Asian Mega Cities,” FY 2018–2021.

5) **Lectures**

Motoki Nagano, “Response to the Corona Disaster and Promoting Municipal Assembly Reformation,” *Workshop for town and village council members*, Organizer: Iwate Prefectural Association of Town and Village Council Chairpersons (May 24, 2021, Iwate Prefectural Autonomy Hall).

6) **Awards**

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7) Media comments

“Residents are in favor in principle but opposed at the site level to the public facilities restructuring plan” (issues related to the Machida mayoral and city council election), Yomiuri Shimbun (Morning, Tama Edition, p. 23), February 10, 2022 [in Japanese].

<< Mami OKU >>

1) Staff

Mami Oku

Professor, MA (Law)

Urban Law and Policy, Environmental Law, Administrative Law

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2) Overview of Research Activities in 2020FY

1. Legal and Policy Framework for Climate Change Mitigation Measures in UK

The UK is known for being the first country in the world to introduce ETS, Climate Change Levy and Climate Change Agreement, as well as enacting Climate Change Act 2008 that include long-term greenhouse gas emission reduction targets for 2050. I have already investigated and examined the outline of the Climate Change Act 2008 and various measures to achieve the reduction targets stipulated by the act. In addition to this, I continued to investigate the trend of the UK climate change mitigation measures after the adoption of the Paris Agreement in 2015, and examined the points that seemed to be useful for enhancing and developing Japan's climate change laws and policy.

Moreover, in order to obtain suggestions that would be helpful in promoting the introduction of renewable energy in Japan, which is a climate change mitigation measure, I grasped and analyzed the overall picture of (1) schemes related to the introduction of renewable energy, etc., and (2) environmental impact assessment schemes related to offshore wind power generation, and investigated and examined examples of initiatives at the local government level in the UK.

2. Legal and Policy Framework for Climate Change Mitigation Measures in EU

Since ratifying the Paris Agreement in 2016, the EU has strengthened its legal policy framework for climate change mitigation. In particular, ①the regulation on governance of the Energy Union and climate action, ②the European Green Deal, ③the European Climate Act, and ④the 'Fit for 55' package are important, and the contents of these measures are grasped and the points that will serve as a reference for enhancing Japan's climate change mitigation measures were examined in my research.

3. Roles and Issues of Local Governments toward the Realization of a Decarbonized Society

The revised Act on Promotion of Global Warming Countermeasures, which was enacted in May 2021, aims to realize a decarbonized society by 2050 based on the goals set forth in the Paris Agreement. The Act calls on local governments to formulate global warming countermeasure action plans, and within those plans, to establish goals for projects that integrally develop facilities through the use of renewable energy and decarbonize local communities (projects to promote regional decarbonization), promotion areas for the project, initiatives for environmental conservation in the area, and initiatives that contribute to the sustainable development of the economy and society.

As of December 28, 2021, the number of local governments representing zero carbon cities has reached 514 (40 prefectures, 306 cities, 14 special wards, 130 towns and 24 villages), and the total population of these local governments is approximately 112.5 million. On the other hand, many of these local governments lack concrete measures to realize decarbonization. Therefore, in this study, I summarized the problems faced by local governments and presented measures for solving them. Specifically, since there are generally personnel, specialized knowledge, and budgets as issues, I proposed jointly formulating countermeasure action plans through information sharing and cooperation among different local governments and also participating in international local government networks as well as in Japan.

3) List of Research Activities in 2021FY

2. Oral presentations & Speeches

2-1. Seminar

Gave a speech titled “Towards the reduction of food loss – Measures taken by National and Local Governments and things that we can do” as part of “Mottainai Food Loss Reduction Symposium” organized by the city of Shinjuku and disseminated through YouTube from 25 October to 5 November 2021.

2-2. Symposium

Gave a presentation titled “Legal Policy concerning Climate Change Mitigation in EU and UK” as part of the Symposium on “Legal Policy concerning Climate Change Mitigation in Different Countries” organized by the Environmental Information Science Center on 8 December 2021 by online.

2-3. Symposium

Gave a speech titled “Energy Efficient Renovation of Buildings in Japan – Policy Framework、 Present Situation、 Measures of National & Local Governments” as part of the Japan-Germany Symposium on “the Road toward Net Zero by Cities and Local Governments” organized by German Research Institute adelphi on 2 March 2022 by online.

3. Others

3-1. Technical papers

Mami Oku, Recent trend of climate change law and policy in UK, Vol. 12, Review of Environmental Law, pp.77-110, May 2021.

Mami Oku, Realising Decarbonised Society: Status quo of Local Governments and Prospect for the Future, Jichitai-Homu-Kenkyu, pp.12-17, Autum 2021.

Mami Oku, Roles and Issues of Urban Municipalities toward Decarbonised Society, Shisei, Vol.71, pp.28-30, February 2022.

3-3. Commentaries & Papers

Mami Oku, Legal Framework of Environmental Impact Assessment on Offshore Wind Power Generation in the UK, as part of a research project of the Ministry of Environment on legal frameworks of foreign countries concerning renewable energy enhancement, Shoji-homu-kenkyukai, pp.69-103, March 2022.

Mami Oku, Legal Framework to enhance introduction of Renewable Energy in the UK, as part of a research project of the Ministry of Environment on legal frameworks of foreign countries concerning renewable energy enhancement, Shoji-homu-kenkyukai, pp.133-171, March 2022.

3-4. Lectures

Gave a lecture titled “Legal Policy towards decarbonization and the role of local communities” at the Open University of TMU on 7 December 2021.

<< **Shigemi OHTSUKI** >>

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Social Integration in Japan, Social Stratification, Urban and Regional Studies, Social Research

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2) Overview of Research Activities in FY 2021

1. Research on Social Integration in Japan

The study examined the policies of basic municipalities regarding "social quality." Specifically, Ohtsuki examined the requirements for social integration policies based on qualitative comparative analysis. Data were obtained from a questionnaire survey of municipalities in Tokyo, Kanagawa, Chiba, and Saitama prefectures. The analysis results were presented at the American Sociological Association as the following achievement ("The Requirements for Local Governments to Establish Integration Services: Applying the QCA Approach"). This work was supported by JSPS KAKENHI Grant Number JP17K17987 and JP20K02164.

2. Research on Immigrants and Social Stratification

Ohtsuki examined the relationship between educational attainment and occupational status, paying attention to immigrants. Specifically, we analyzed the relationship between the occupational and educational backgrounds of immigrants and Japanese using order-made tabulated census data. The results of the analysis were published in the following work ("Social Stratification and Immigrants: An Exploratory Study Using Census Data"). This work was supported by JSPS KAKENHI Grant Number JP18K01966.

3. Research on the Division and Restructuring of Labor Markets and Local Communities

The study focused on the relationship between class inequality and local communities and the process of restructuring. Specifically, Ohtsuki organized findings on class inequality and local communities from previous studies and refined the theoretical framework in preparation for a social survey to be conducted

in FY2021. This work was supported by JSPS KAKENHI Grant Number JP20K02063.

4. Research on Social Stratification and Attitude Toward Society
Ohtsuki examined the relationship between socioeconomic status and attitude toward unfairness. Specifically, using SSM (Social Stratification and Social Mobility) data, Ohtsuki examined the effect of people's perception of unfairness on their perception of inequality through multivariate analysis. The results of the analysis were published as the following achievement (“The Effects of Unfairness: Focusing on the Attitude toward Inequality Adjustment”).

3) List of Research Activities in FY 2021

1. Oral presentation
Ohtsuki, Shigemi., 2018, “The Requirements for Local Governments to Establish Integration Services: Applying QCA Approach,” American Sociological Association 116th Annual Meeting, 2021.8.6-10, Virtual.
2. Research reports/papers
 1. OHTSUKI, Shigemi, 2021, "Effects of Inequality: Focusing on Attitudes toward Correcting Disparities (Fukouheikan no kouka: Kakusazeseiishiki ni chakumoku shite)," Watanabe, Tsutomu, et al. (eds.), *Social Stratification in an aging society with declining birthrate 2: Stratification in the middle stage of life*, pp.201-214. (Written in Japanese)
 2. OHTSUKI, Shigemi, 2022, "Social Stratification and Migration: An Exploratory Study Using National Census Data (Shakai-Kaiso to Iminn: Kokusai-Census Data ni yoru Tansakuteki kento)," HAYASHI, Takuya, et al. [eds.], *Disparity and Division: Aspects of Exclusion in Japan*, pp.59-76. (Written in Japanese)
3. Other works
 1. Attended as a discussant, “How do we view the experience of the Corona Disaster as sociology?” (The first research meeting of the Kanto Sociological Society in 2021, March 13, 2022, online).
 2. Ohtsuki, Shigemi, 2022, “Farewell Address: Thank you, Professor Nakao (Nakaosensei, Arigatougozaimashita),” *The Journal of Social Sciences and Humanities*, 518(1), pp.17-22. (Written in Japanese)

4) **Grants-in-Aid for Scientific Research**

1. Principal investigator, Grant-in-Aid for Scientific Research (C), 20K02164, “An Empirical Investigation into the Factors That Shape “Social Quality” Policy Measures across Municipalities”, FY2020-FY2023, 4290 000 JPY.
2. Co-investigator, Grant-in-Aid for Scientific Research (C), 18K01966, “Multidimensional Aspects in Occupational Segregation: Longitudinal Trend in Japan and Cross-cultural Comparisons,” FY 2018 - FY 2021, 4420 thousand JPY.
3. Co-investigator, Grant-in-Aid for Scientific Research (C), 20K02063, “Social Stratification and Restructuring of Local Communities: Tokyo Community Survey by Quantitative and Qualitative Approach,” FY2020 - FY2022, 4290 thousand JPY.

<< **Ken SHIRAISHI** >>

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2) **Overview of Research Activities in FY 2021**

(1) Research on corporate culture and corporate scandals

In this research, we are examining effectively deterring corporate scandals that are caused by corporate culture, by empirically clarifying the formation process and accountability position of organizational culture in a company.

3) **List of Research Activities in FY 2021**

2. Monographs

- (1) SHIRAISHI, K. (2021) Organizational Culture and Responsibility from an Evolutionary Perspective, In Yamaguchi, A. et al. ed., A collection of essays to Dr. Terasaki in celebration of his seventy years old, pp.467-486, Seibundo, Tokyo (in Japanese)
- (2) SHIRAISHI, Ken. (2021) Liu v. Securities and Exchange Commission 591 U.S., Materials: Anglo-American Criminal Law Study (39) Overview of U.S. Supreme Court 2020 October Term Decisions, Comparative Law Review Vol.55 No.1, pp.53-55, INSTITUTE OF COMPARATIVE LAW WASEDA UNIVERSITY (in Japanese)

4) Grants-in-Aid for Scientific Research (KAKENHI)

<< Yoko SUGIHARA >>

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2) Overview of Research Activities in 2021FY

1. The impact evaluation of the reformed of the National Long-Term Care Insurance (LTCI) system on the older adults and their family caregivers.

We investigated the multifaceted impacts of the reformed of the Japanese LTCI system on the older adults and their family caregivers, based on the repeated cross-sectional surveys conducted in a municipality of Tokyo metropolis. We examined the following research issues: (1) The differences in the preference for long-term care (LTC) by age, period and cohort (A-P-C) in older adults. (2) The impacts of the increase in self-pay ratio for care services covered by LTCI on impaired older adults and their family caregivers. (3) The psychological burden of medical care at home among family caregivers of impaired older adults. (4) Factors associated with worry about utilizing medical and long-term care services. (5) Mediators and moderators of the association between living alone and psychological distress. (6) Disaster preparedness among the frail or impaired older adults.

2. A study on the political and practical strategies for recruitment, retention, and staff development of long-term care workers in urban settings.

The purpose of this study was to clarify the political and practical strategies for recruitment, retention, and staff development of long-term care workers in urban settings. The survey was conducted for the chief administrators, direct care workers and nursing staffs working in the long-term care facilities in a city in the Tokyo Metropolitan Area. The following findings were suggested: (1) There was a serious shortage of visiting care staffs (home helpers) and direct care workers working in the long-term care facilities. (2) The early turnover was the most serious problem for care workers in LTC facilities. (3) Several strategies such as “free job matching support”, “priority entrance to nursery

school”, and “improvement of social evaluation for care workers” could be useful support for recruitment and retention of care workers.

3. A study on the mechanisms and the regulated factors of multi-layered social disadvantages among Japanese older adults.

Based on the data obtained from the nationwide survey and two regional surveys in Tokyo metropolitan area, we investigated the mechanisms and the regulated factors of multi-layered social disadvantages among Japanese older adults. We explored the following research questions: (1) The influence of life-course financial strains on the later-life health of the Japanese. (2) Health, psychological, social and environmental mediators between socio-economic inequalities and participation in exercise. (3) Time perspectives as mediators of the associations between socio-economic status and health behaviors. (4) Social networks' health habits over life course and late-life health habits.

3) List of Research Activities in 2021FY

1. Refereed papers

Wang, W. & Sugihara, Y. (2021). Workplace variables in job satisfaction and intention to continue working in long-term care facility staff : Differences by workers' experience, qualifications, and employments status. *Japanese Journal of Applied Gerontology*, 15(1), 26-37. (in Japanese).

Sugihara, Y., Kobayashi, E., Fukaya, T., Liang, J., & Sugisawa, H. (2022). Trends in informal and formal long-term care use among older adults with disabilities in Japan. *Innovation in Aging*, 5, (in press)

Sugisawa, H., Harada, K., Sugihara, Y., Yanagisawa, S., & Shimmei, M. (2022). Mediators of life-course and late-life financial strain on late-life health in Japan: based on a cross-sectional survey. *Journal of Multidisciplinary Healthcare*, (in press)

2. Oral / Poster Presentations

Sugihara, Y. Psychological burden and gain related to performing medical care tasks at home among family caregivers of older adults: the moderation effect of support. Japanese Society of Public Health 80th Annual Scientific Meeting. 2021.12.21-23. Tokyo. (in Japanese).

3. Others

3-1. Technical books

Sugihara, Y. (2021). Social participation and productive engagement in later life. J. F. Overlin University, Gerontology Program (ed). Textbook of Gerontology. pp.234-248. Tokyo: J. F. Oberlin Press. (in Japanese).

Sugihara, Y. (2021). Research issues in elder care: Theoretical models and measures. J. F. Overlin University, Gerontology Program (ed). Textbook of Gerontology. pp.249-259. Tokyo: J. F. Oberlin Press. (in Japanese).

3-2. Research papers

Sugihara, Y. (2021). The construction of ACP models for older adults in the end-of-life stage. Final report of Yubi zaidan research fund. (in Japanese).

3-4. Invited lecture

Sugihara, Y. The concept of quantitative research based on longitudinal surveys and directions in social welfare studies. Japanese society for the study of social welfare 69th Annual Scientific Meeting, Special planning session. 2021.9.12. (in Japanese).

4) **Funded Research Projects (Competitive Research Funds, etc.)**

1. **KAKENHI Grants (Grants-in-Aid for Scientific Research)**

Scientific Research (B). [Principal investigator]. “The impact evaluation of the reformed of the National Long-Term Care Insurance system on older adults and their family caregivers: Consideration of support system for preventing social exclusion.”

Scientific Research (A). [Co-investigator]. “A study on the mechanisms and the regulated factors of multi-layered social disadvantages among Japanese older adults.”

Scientific Research (C). [Co-investigator]. “The construction of Advanced Care Planning models for older adults in the end-of-life stage.”

Scientific Research (A). [Co-investigator]. “Dynamics of family, work, community, economics, and health among the older adults in Japan.”

<< **Masashi TAKAMICHI** >>

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2) Overview of Research Activities in FY 2021

1. A study of regional revitalization focusing on the *Sotobori* of Edo Castle
2. A historical study on waterside space in central Tokyo.
3. Research on revitalization of central Tokyo using regional resource.
4. Practice and research on methods of *Machizukuri*
5. A study on the generation process of a *Tensui Ido* (a well that accumulates rainwater) in Izu Oshima, Tokyo

3) List of Research Activities in FY 2021

3-3. Research Reports / Papers

- Masashi TAKAMICHI(2022) " The waterfront space of Tokyo in the Meiji era as seen from the correspondence with the physical environment-Focusing on the Sotobori of Edo Castle and the Kanda River", 『Joint symposium of the Kantokinseishikenkyukai and the Syutokenkeiseishikenkyukai: EdokaraTokyo he(Changes from Edo to Tokyo)』 Online, March 2021
- Masashi TAKAMICHI(2022) "Report on Naples, Italy (1):Environmental characteristics and spatial system in volcanic areas-from the perspective of comparison with the Izu Islands", 『Hosei University research center for Edo-Tokyo studies 2021 Report Meeting』 Hosei University, March 2021

<< Hidenori TAMAGAWA >>

1) Staff

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2) Overview of Research Activities in 2021FY

1. A Fundamental Study on the Characteristics of Urban Model

Hidenori TAMAGAWA

Continuing the long-term researches, I investigated the touching points between urban analysis and urban planning. Since last fiscal year, I have published a web site describing break-down explanation about the basic theories of the urban analysis.

2. A Study on the Recovery of the Damaged Area by the Earthquake Disaster

Hidenori TAMAGAWA, Shinji KAWAMURA, Yasuchi NOZAWA, Taro ICHIKO and Their Students

With the Grants-in-Aid for Scientific Research by JSPS, we have exerted the charrette work shop in Noda village in Iwate prefecture after the recovery from the large earthquake and downpour including the revitalization for the local district.

In 2021FY, as in last fiscal year, when on-site visiting was impossible, we held the on-line workshops together with residents in the village.

3) List of Research Activities in 2021FY

3. Others

3-4. Others

- The web site about the research 1 is below;

[breakdown.pdf \(tmu.ac.jp\)](#)

- We have created the web site on Google map to discuss and comments on old and nowadays photos in Noda village of research 2,. The site is shared only among the workshop members and the village people.

- The last lecture on commemoration of retirement is exerted in title of Walking around City and Science

4) Grants-in-Aid for Scientific Research

1. KAKENHI Grants

Scientific Research (C) [Co-investigator]. Creating the regional career education program for the recovery from multiple disasters and revitalization of local areas, 2017-2020FY + two-year extension.

<< Kahoruko YAMAMOTO >>

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2) Overview of Research Activities

1. Urban Sociological Study on Social Structural Changes and Reconstruction of Urban Inner Area in Yokohama, Japan

The Study has been focused on social structural changes in urban inner areas, focusing on the issues below; 1) change in industrial structures with Globalization and post-industrialization, 2) town development plan engaged by public administration and NPOs, 3) activities of local supportive organizations. The academic aim is to clarify 1) how these three points affect over changes and reconstructing of local communities, and 2) how social lives of residents have changed.

2. Urban Sociological Study on Social Structural Changes and Reconstruction of Urban Inner Area in Vancouver, Canada

The study has been conducted in Downtown Eastside, the low-income neighbor in Vancouver, Canada. The research has been focusing on how gentrification impacts to a local community and their activities.

3. Research on Social Condition of the Evacuees from Fukushima

As a research group, we have conducted interviewing research to bring out the social condition of the evacuees from Fukushima, especially from Tomioka Town.

3) List of Research Activities

2. Proceedings of Oral Presentations

Kahoruko YAMAMOTO, 2021, “*Yoseba* under becoming service-hub and COVID19” In the Annual Conference of the Japan Association for Urban Sociology (online), September 11st, 2021. (Japanese)

Kahoruko YAMAMOTO, 2021, “Contemporary issues over social research in

communities” In the Annual Conference of the Japan Sociological Society (online), November 13th, 2021. (Japanese)

3.

3-1. Specialized book

Kahoruko YAMAMOTO, 'Social Changes in Kotobuki as a Welfare Dependent Community' in Marr & DeVerteuil eds. *Refuge Neighborhoods: Service Hubs and Fighting Homelessness in Globalizing Cities in the US and Japan*. (forthcoming)

Kahoruko YAMAMOTO, 'The impact of increasing welfare needs on the social structure of urban underclass communities: A case of Kotobuki, Yokohama', Mizuuchi ed. *The Coping City: Between Gentrification and Collective Initiatives*. Springer. (forthcoming)

Kahoruko YAMAMOTO, 2021, “Genpatsu hinan jichitai Tomioka-machi 10 nen no kiseki” (10 years in Tomioka-town as the evacuee municipality) in A. Sato, T. Kanai & R. Takaki eds. *Genpatu jiko hisai jichitai no saisei to kuno* (Regeneration and calamity of the disaster-stricken municipality): 15-40. Tokyo: Daiichi-hoki. (Japanese)

3-4.

Others (Essays)

Kahoruko YAMAMOTO, 2019-2022, ‘Japan and World Viewed through Eastside’ in *Bulletin/Geppo* by GVJCCA (The Greater Vancouver Japanese Canadian Citizens' Association). (Japanese) (Monthly)

Kahoruko YAMAMOTO, 2011-2022, ‘Migrants in Cinemas’ in *Migrants Network* by SMJ (the Solidarity Network with Migrants Japan). (Japanese) (Bimonthly)

Kahoruko YAMAMOTO, Book review “Watashi ga homuresu datta koro” in the Tokyo Shimbun and others. September 25th, 2021. (Japanese)