

Department of Urban System Science 2015FY Annual Report

■ Staff List of the Department of Urban System Science, Graduate School of Urban Environmental Sciences

Shin AIBA, Associate Professor

Taro ICHIKO, Associate Professor

Fumiko ITOH, Professor

Motoki NAGANO, Associate Professor

Hiroyuki ONEYAMA, Professor

Hidenori TAMAGAWA, Professor

Kahoruko YAMAMOTO, Associate Professor

Prof. Oneyama is also a member of the Department of Civil & Environmental Engineering. Please refer to its site as for his report.

<< **Shin AIBA** >>

1) Staff

Shin AIBA Associate Professor/Dr. Eng.
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2) Overview of Research Activities in 2015FY

Study on reconstruction from disaster

Shin AIBA

I study on reconstruction plans and projects from Great East Japan earthquake. I support to plan reconstruction projects and actions in Ryori village, Ofunato city. Results are published on academic magazines.

Urbanism on population decreasing age

Shin Aiba

I discuss and examine a theory of urban planning and design on population decreasing age. Results are published on a book and discussion papers of symposium by AIJ (architectural institute of Japan).

Comparative study on machizukuri in east Asian countries

Shin Aiba

I compare policy, history and practice of machizukuri in Japan, Taiwan and Korea. Results are published as a book.

Technologies to support machizukuri

Shin AIBA

I develop technologies to support discussion and consensus building by citizens. I develop a workshop method to support to design a street in Tsuruoka city by citizens.

3) List of Research Activities in 2015FY

2. Proceedings of Oral Presentations

Yusuke Kanai, Shin AIBA et al, Workshop for cross-cultural communication using Fashion-snap : Characteristics of the region in Korea and Japan, Proceedings of AIJ annual conference, 2015(city planning), pp191-192, 2015.9

3. Others

3-1. Technical Book

Shin AIBA, Naomi Uchida et al, A power to change the city by yourself, Hobunsha, 2016.3

Shin AIBA, Fold Up a City, Karenssha, 2015.12

<< Taro ICHIKO >>

1) Staff

Taro ICHIKO

Associate Professor/ Doctor of Urban Science

Disaster-proof urban planning, Community-based Disaster Management, Risk Management

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2) Overview of Research Activities in 2015FY

1. A study of run-away actions from the Tohoku region Pacific Tunami disaster

A run away action had made a significant role after the Tohoku region Pacific Tunami disaster. However cabinet office government of Japan surveyed those actions, it was not enough to inquiry reaction of designated person e.g. case workers and community leaders.

In this study, interview surveys were dedicated in Noda-village, Yamada-town and Ishinomaki-city. It was continued interview surveys and analyzed the effects of

local nature and neighborhood relationships to people's run-away actions.

2. A study of a pre-disaster planning for post-disaster recovery

Disaster mitigation which means not only reducing disaster losses by pre-activities but also preparing resilient recovery after a big disaster becomes more important for countermeasures of the Tokyo capital earthquake. Those programs for disaster recovery from a view of the planning theory is developed as a pre-disaster planning for post-disaster recovery. We also have been dedicating those programs accompanying with Tokyo Metropolitan Government and local municipalities.

In fiscal year 2015, Community workshops for post-disaster recovery in Nagasaki123, Toshima-ward were managed and delivered. Adding to that, an action research on the 17th municipal staff training for a long-term recovery by TMG was done.

3. A study of disaster management as an aspect of gender equality

After the Tohoku region Pacific Tunami disaster, refugee support as an aspect of gender equality has been becoming important. In this study, surveys of women's life and livelihood recovery after the Tohoku disaster were conducted. And workshops for design the disaster mitigation programs of the center of gender equality in Chofu city was managed.

3) List of Research Activities in 2015FY

3. Others

3.4 Invited speech

Taro ICHIKO (2016) , Case study of community disaster management for post-East Japan earthquake in Tokyo, MCU-TMU Planning School Students Exchange Seminar, Ming Chuan University, 2016 February

<< Fumiko ITOH >>

1) Staff

Fumiko ITO

Professor/ Dr. Eng.

Urban Planning, Urban Analysis, Analysis of Residential Environment, Cost-Benefit analysis of public projects

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2) Overview of Research Activities in 2015FY

1 Environment of urban area and residential area

Fumiko Ito

The condition of the city, the evaluation of environment and the relationship between those are analyzed to get suggestion for creating comfortable residential environment. Following topics were researched in 2015FY.

- i) The Effect of Sky Factor and the Change on Impression of Townscape
- ii) The Application of Sequence Alignment Analysis to Typologies of Spatio-Temporal Activities in the closed area,
- iii) The influence of side billboards on impression of pedestrians in streetscapes,
- iv) Consumer factor of Electric Vehicle and their locational distribution,
- v) Mathematical approach for planning road improvement

2 Housing choice, living behavior of resident

Fumiko Ito

Housing choice and living behavior of residents are analyzed to clarify the demand of residential service. Following topics were researched in 2015FY.

- i) Study on purchasing behavior of smart house based on consumer preference and environmental awareness,
- ii) Analysis of Factors to Formulate Housing Prices of Existing Housing Market in Tokyo,
- iii) Analysis of the Questionnaire about A House and the Health for Primary and Secondary Students.

3) List of Research Activities in 2015FY

1. Refereed papers

TSUCHIYA Yoriko, ITO Fumiko and SUBINA Haireti (2015)

A Study on Purchasing Behavior of Smart House Based on Consumer Preference and Environmental Awareness

Papers on Environmental Information Science, No.29, 291-296.

NISHIO Shoko and ITO Fumiko (2015)

The Effect of Sky Factor And The Change on Impression of Townscape [in Japanese]

J. Archit. Plann., AIJ, Vol. 80 No. 710, 907-914.

2. Proceedings of Oral Presentations

ISHIGURO Ami, ITO Fumiko and NISHIO Shoko (2015)

The influence of side billboards on impression of pedestrians in streetscapes [in Japanese]

Summaries of technical papers of annual meeting (Urban Planning and Design), AIJ, 1049-1050.

KANAI Yusuke, KOBAYASHI Mirano, ITO Fumiko, *et al.* (2015)

Workshop for cross-cultural communication using Fashion-snap : Characteristics of the region in Korea and Japan [in Japanese]

Summaries of technical papers of annual meeting (Urban Planning and Design) , AIJ, 191-192.

KOBAYASHI Mirano and ITO Fumiko (2015)

Analysis of Factors to Formulate Housing Prices of Existing Housing Market in Tokyo [in Japanese]

Summaries of technical papers of annual meeting (Architecture System and Management), AIJ, 175-176.

SUBINA Haireti, TSUCHIYA Yoriko and ITO Fumiko (2015)

A study on the residential and housing preferences of Environmental Friendly House purchaser

Summaries of technical papers of annual meeting (Architecture System and Management), AIJ, 261-262.

3. Others

3-2. Research Reports / Papers

KAWASE Junya and ITO Fumiko (2015)

The Application of Sequence Alignment Analysis to Typologies of Ueno Zoo Visitors' Spatio-Temporal Activities [in Japanese]

Papers and proceedings of the Geographic Information Systems Association of Japan, Vol.24,D-7-2.

TSUCHIYA Yoriko ITO Fumiko and SUBINA Haireti (2015)

Study on Purchasing Behavior of Smart House [in Japanese]

Journal of Japan Real Estate Sciences, Vol.29, No.3, 32-41.

TSUCHIYA Yoriko and ITO Fumiko (2015)

The Transition of Urban Environmental Policy in Japan [in Japanese]

Proceedings of the 18th Annual Meeting of Japan Association for Human and Environmental Symbiosis, 43-52.

<< **Motoki NAGANO** >>

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Motoki NAGANO

Associate Professor/ M. Political Science

Urban Administration, Local Governance

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2) Overview of Research Activities in 2015FY

1. Citizen participation in urban governance

To investigate the policymaking dynamics of Japanese local governments, I focused on two issues. First, I investigated citizen participation in local assemblies. I used a nationwide mail questionnaire survey and interviews to analyze the status of policy reforms and citizen participation in Japanese local assemblies. Furthermore, I analyzed the newly emerging activities of citizen volunteers acting as ‘supporters’ or ‘monitors’ for local assemblies. Second, I investigated the activities surrounding program reviews (*jigyō shiwake*) via mail a questionnaire survey (conducted in each administrative reform section of municipalities in Tokyo Metropolis, Kanagawa Prefecture, and Saitama Prefecture) and took part in participatory observations and interviews.

3) List of Research Activities in 2015FY

1. Peer-reviewed papers

Motoki Nagano, Minoru Makise and Katsuya Hirose, “Analysis of participatory program reviews in Greater Tokyo municipalities,” *The Annals of Japan Association for the Study of Local Government*, Vol. 27, pp. 177-212, October 2015. [in Japanese]

2. Proceedings of oral presentations

Motoki Nagano, “Brief on the results of the annual progress survey on local-assembly reformation in Japan 2015,” 15th Citizens and Councilors Conference for the Creation of Municipal Ordinances 2015, July 2015, Ichigaya, Tokyo, Hosei University. [in Japanese]

Motoki Nagano, “Municipal government plans and trust-building with citizens,” 26th Annual Convention of Japan Association of Local Government Policy Studies, August 2015, Hagukumi Center (Nara city health center and educational synthetic center), Nara City, Nara Prefecture. [in Japanese]

3. Others

3-1 Technical books

As co-author

Katsuya Hirose and Local Assembly Reformation Forum, eds., White Paper on Local Assembly Reformation 2015, Seikatsusha Ltd., Tokyo, October 2015. [in Japanese]
Specific contributions

Motoki Nagano, “Recent trends in citizen volunteer activities as ‘supporters’ or ‘monitors’ for local assemblies,” pp. 81-89, in *ibid.* [in Japanese]

Motoki Nagano, “Analysis of local assembly fundamental ordinance articles: Reformation trends revealed in local assembly fundamental ordinances issued in 2013,” pp. 94-130, in *ibid.* [in Japanese]

Motoki Nagano, “Summary report of the annual progress survey on local assembly reformation in Japan 2015,” pp. 132-149, in *ibid.* [in Japanese]

3-3. Monographs

Motoki Nagano, “Collaboration between city councils and civil society organizations,” *Nikkei Glocal*, No. 267, pp. 48-51, May 2015. [in Japanese]

Commentary/ essays

Motoki Nagano, “Municipal assemblies need continuous communications with residents,”

Public Relations (Kouhou), No. 763, pp. 16-18, December 2015. [in Japanese]

Book reviews

Motoki Nagano, “Book review: Toshiaki Etou’s *Q&A Front Lines of Local Assembly Reforms*”, *Local Government Policy Studies*, Vol. 29(1), pp. 57, November 2014. [in Japanese]

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

Co-Investigator, Scientific Research (B), No. 26285033, “Explicating originality and universality of Japanese municipal assemblies’ reformation movements.”

7. Media comments

“All prefectural assembly adopt position documents for sign language act,” *Nikkei Shinbun* (evening edition), April 3, 2015. [in Japanese]

“Female members only 26% in 26 municipal assemblies, Tama area,”

Yomiuri Shinbun (Tama area, Tokyo edition), April 17, 2015. [in Japanese]

“Municipal assemblies enhance capacities with universities,”

Yomiuri Shinbun (evening edition), April 24, 2015. [in Japanese]

<< Hidenori TAMAGAWA >>

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Hidenori TAMAGAWA Professor/Dr. Eng.

Urban and Regional Analysis, Urban and Regional Planning

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2) Overview of Research Activities in 2015FY

1. A Fundamental Study on the Characteristics of Urban Model

Hidenori TAMAGAWA

I continuously study touching points between urban analysis and urban planning.

As for new characteristics of spatial territory model, long-term researches have been exerted. Especially, the implications of gravity models are investigated in respect of spatial patterns on a fundamental level.

2. A Study on Urban Theory

Hidenori TAMAGAWA and Hiroshi MIYAZAKI

With a grant from last FY year, we surveyed on a planned residential area in UK and NPO activity in Tama new Town. Combining them with the survey in USA of last year, we summed up the study report on the community organizing in planned urban areas during the process of urban shrinking.

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

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

With the Grants-in-Aid for Scientific Research by JSPS, we have exerted the

charrette work shop including the job experience for the recovery of Noda village in Iwate prefecture from 2012FY to 2014FY. The final report is completed in July, 2015.

3) List of Research Activities in 2015FY

1. Peer-reviewed papers

Shinji Kawamura, Taro Ichiko, Yasushi Nozawa and Hidenori Tamagawa, “A Study on the Possibility of the Proposal-seeking Workshop by Students as a Recovery Support for Earthquake-damaged Area - reflecting the four years of charrette workshop activities in Noda Village -” , Papers on City Planning Vol. 50-3, 379-386 (in Japanese).

2. Proceedings of Oral Presentations

Masahiro KAMEYAMA and Hidenori TAMAGAWA, “A Study on Building Use Patterns by Agglomeration”, 2015 KAGIS Fall Conference for the Value of Geo-spatial Information in the Date-Technology Era, at Pukyong University in Korea, 5 Nov. 2015.

3. Others

3-2. Research Reports/Papers

Hidenori Tamagawa, Shinji Kawamura, Taro Ichiko and Yasushi Nozawa, “Creating compact and inter-regional models for recovering the earthquake-damaged district in the north seaside of Iwate prefecture” , Research report to the Grants-in-Aid by JSPS, May, 2015 (in Japanese).

Hidenori Tamagawa and Hiroshi Miyazaki, “A Study on the community organizing in planned urban areas during the process of urban shrining” (in Japanese), Research report to the grant by Dai-ichi Seimei Foundation, March, 2016 (in Japanese).

3-4. Works/Others

Key note speech in an international conference :

Hidenori TAMAGAWA, “Trends of GIS and Future of Academism”, 2015 KAGIS Fall Conference for the Value of Geo-spatial Information in the Date-Technology Era, Pukyong University in Korea, 5 Nov. 2015.

<< Kahoruko YAMAMOTO >>

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Associate Professor/Ph.D.(Sociology)

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2) Overview of Research Activities in 2015FY

1. Urban Sociological Study on Social Structural Changes and Reconstruction of Urban Inner Area

The Study has been focused on social structural changes in urban inner areas, taking a case of Kotobuki, Yokohama and Downtown Eastside, Vancouver, Canada, 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. 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 in 2015FY

2. Proceedings of Oral Presentations

Kahoruko YAMAMOTO, ‘Grobarizeshon-ni-kosuru-toshi-kaso-chiiki’ (Anti-gentrification movement in urban underclass area: A case in Vancouver, Canada),

The Annual Conference of the Japan Association for Urban Sociology in University of Shizuoka, September 13rd, 2015. (Japanese)

Kahoruko YAMAMOTO, 'Social Inclusion and Exclusion of Urban Underclass Areas as Welfare Dependent Communities: The Case of Yokohama, Japan', 2015 Korea-China-Japan Joint International Seminar in University of Seoul, South Korea, October 23rd, 2015. (English)

3. Others

3-1. Technical Book

Kahoruko YAMAMOTO, Ryosuke TAKAKI, Akihiko SATO & Yusuke YAMASHITA, *Genpatsu-hinansha-no-koe-wo-kiku (Hearing voices of Fukushima refugees)*, Tokyo: Iwanami-shoten, June 2015. (Japanese)