# 2012 Annual Report

### Urban space, system and planning

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#### 2) Overview of Research Activities in 2012FY

### Hidenori TAMAGAWA

A Fundamental Study on the Characteristics of Urban Model Hidenori TAMAGAWA

The new implications of the gravity type model have been investigated in two dimensional plane. A refereed paper of the international journal has been published to show that the overall effect by the reducing of distance-decay parameter and the serious effect of location of facilities by theoretical considering and simulation.

Studies on the Relation between Urban Space and Urban Activities Hidenori TAMAGAWA and Takumi KASUYA

The relation between purse snatch and urban space is conducted by the occurring time in the Tokyo 23 wards. The case study in Tokyo reveals that the basic urban elements of Kevin Lynch are utilized with different meanings by the criminals. It is published in the international journal.

A Study on Urban Theory

Hidenori TAMAGAWA and Yoshie TAMAGAWA

A biography of Jane Jacobs, a famous urban critic, is translated. Centering on the times when she wrote The death and life of great American cities, her whole life is plainly explained.

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

To make up the recovery planning for Noda village in Iwate prefecture which is the most north locality that is damaged by the Higashi-Nihon great earthquake, the field survey, work shop discussion and presentation are conducted. This activity is funded by Grants-in-Aid for Scientific Research by JSPS.

#### 3) List of Research Activities in 2012FY

#### Hidenori TAMAGAWA

#### 1. Refereed Papers

Hidenori Tamagawa, "The implications of using a gravity model to determine territory in a circular domain", Environment and Planning B: Planning and Design, volume 39, pp. 978-990, Nov. 2012

Takumi Kasuya and Hidenori Tamagawa, "A study on the relations between criminal behaviors in purse-snatching and urban spaces", International Journal of Urban Sciences, 16, pp. 279-300, Nov. 2012

### 2. Proceedings of Oral Presentations

Hidenori TAMAGAWA, "Interdisciplinary global educational exchange program on urban issues in Asian region", Special session on international education in Tokyo-Seoul Joint Seminar 2012 at TMU, 2012.11.2

Taro ICHIKO and Hidenori TAMAGAWA, "A report of an action disaster-research for recovery planning in Noda, Iwate prefecture", Tokyo-Seoul Joint Seminar 2012 at TMU, 2012.11.3

### 3. Others

### 3-1. Technical books

Hidenori Tamagawa and Yoshie Tamagawa, Joshiki no Tensai, Kajima Publishing co., 2012.6 (Japanese translation of Genius of Common Sense by G. Lang and M. Wunsch, 2010)

### 3-4. Works/Others

Taro ICHIKO, Shinji KAWAMURA and Hidenori TAMAGAWA, "A report of an action disaster-research for recovery planning in Noda, Iwate prefecture", Poster presentation for ISSUE at TMU, 2012.11.2

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#### 2) Overview of Research Activities in 2012

Environment of residential area

The condition of the city, the evaluation of environment and the relationship between those are analyzed to get suggestion to create comfortable residential environment.

This year, the result of the questionnaire survey carried out on residents of Hachiouji-city and Obuse-town are analyzed to clarify the relationship between residents' view of health and the condition of the environment of their living area. The survey of children's play zone, the analysis of the evaluation of residential area and the analysis of sky-factor are also Conducted.

#### Information of urban structure and Real Estate

The analysis to find the appropriate way and contents for providing the information of urban structure and Real Estate are conducted. This year, the supporting system for choosing visiting area based on individual preferences is verified on the experiment held in Echigo - Tsumari Art Triennial. Forty years' leaflets of advertisement for residents are analyzed to clarify the changes in expression of children's space.

### Analysis of Public Projects

Public projects were evaluated by cost-benefit analysis. This year, Hednic price analysis on the value of preservation of four-side enclosed courtyards (historical house in Beijing) was conducted.

#### 3) List of Research Activities in 2012

FUJIKI Yoshifumi, ITO Fumiko, AIBA Shin, MANABE Rikutaro and NAGAMOTO Shuhei 'What can we do with the "Mitaka Keikan Brain" System?', "The 8th International Conference of the Pacific Rim Community Design Network", 2012.

#### ITO Fumiko and SHIKI Yuichi

'Historical change in proposals of children's space in apartment house', "Summaries of Technical Papers of Annual Meeting", F, AIJ, 367-368, 2012 (in Japanese).

### ZU Yunqi and ITO Fumiko

'The current situation of four-side enclosed courtyards and residents' feelings in Beijing'.

"Summaries of Technical Papers of Annual Meeting", F, AIJ, 355-356, 2012 (in Japanese).

KANAI Yusuke, NISHIO Shoko, ITO Fumiko

'The study on the relation between a sky factor and recognition of urban space', "Summaries of Technical Papers of Annual Meeting", F, AIJ, 973-974, 2012 (in Japanese).

### NISHIO Shoko, KANAI Yusuke,ITO Fumiko

'Relation between the change of sky factor and the impression while walking: The study on the relation between a sky factor and recognition of urban space(Part2)', "Summaries of Technical Papers of Annual Meeting", F, AIJ, 975-976, 2012 (in Japanese).

### HAMURO Sae and ITO Fumiko

'A Study on the route to playing places in the Certified Day Nurseries' Activity', "Papers and Proceedings of the Geographic Information Systems Association of Japan", vol.21, 6F-1, 2012 (in Japanese).

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### 2) Overview of Research Activities

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. Results are published on discussion papers of symposium by AIJ (architectural institute of Japan).

City planning with existing architectural stocks

Shin Aiba

I develop city planning methods to utilize or demolish increasing abandoned houses in a city area. I practiced a rehabilitation project of abandoned house in suburban area of Tokyo, and planning project of a master plan of utilizing and demolishing abandoned houses in local city.

Comparative study on machizukuri in east Asian countries

Shin Aiba

I compare policy, history and practice of machizukuri in Japan, Taiwan and Korea. I prepare a book to publish the results.

Technologies to support machizukuri

Shin AIBA

I develop technologies to support discussion and consensus building by citizens. I develop a system to support discussions of townscapes by citizens using smart phone devises.

#### 1. 審查論文

Shin AIBA, Yuya SHIRAISHI, Rikutaro MANABE et al: DEVELOPMENT OF MACHIZUKURI FLAG TO SHARE INFORMATION WITH CITIZEN, Journal of AIJ, No.40, pp. 1083-1086, AIJ, 2012

#### 2. 口頭発表

Shin AIBA, Satoshi NAKAYAMA, Citizen participative research method on urban heat island effect, Green Community Design pp.313-317, The 8th International Conference of the Pacific Rim Community Design Network, Aug.2012

Yoshifumi Fujiki, Fumiko Ito, Shin Aiba, Rikutaro Manabe and Shuhei Nagamoto, What can we do with the "Mitaka Keikan Brain" system?, Green Community Design pp.83-90, The 8th International Conference of the Pacific Rim Community Design Network, Aug.2012

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### 2) Overview of Research Activities

(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.

### (2) A study of a pre-disaster planning for post-disaster recovery

The building loss of the Tokyo capital earthquake directly above the focus was estimated five times bigger than the Hanshin-Awaji earthquake according to cabinet office government of Japan. It is inevitable to make and do mitigation strategy for not only directly loss like death and injured but also indirectly loss like housing damage. In this study, I supposed to make planning technology for disaster-proof community development.

In fiscal year 2012, Community workshops for post-disaster recovery in Ikebukuro-honcyo, Toshima-city were planned and managed. Other hand, an action research on the 14<sup>th</sup> municipal staff training by TMG was implemented.

(3)Development of learning programs for high school students to encourage disaster imagination and reaction capacity

After the Tohoku region Pacific Tunami disaster, there were a lot of students in Tokyo who could not go back to home until next day because of railways and bus service were stopped. It is necessary to prepare those immediate actions on a high school among a local government, a school office, a community and each family unit.

In this project, it is aimed that high school students could make adequate actions after a big earthquake disaster.

In this fiscal year, the workshop programs were developed for evacuation term and implemented in Nagayama high school, Tama-city were implemented.

#### 3) List of Research Activities

#### 1. Refereed Papers

Taro ICHIKO, Jin YOSHIKAWA and Itsuki NAKABAYASHI: A study of chronicles and outcomes of community workshops for post-disaster recovery in Tokyo — Reviewing towards post-period for Tohoku-Pacific Ocean Earthquake —, Journal of the City Planning Institute of Japan, Vol.47 No.3, 2012 Oct

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#### 2) Overview of Research Activities

The purpose of our study is to make clear the yearly trend of the health status in urban city and determine which have the validity for the survival rate of the dwelling elderly for several years followed up in urban city..

### 3 ) List of English Research Activities

### 1. Refereed Papers

- 1) Suwen Yang, Tanji Hoshi, Motoyuki Yuasa, Naoko Nakayama, Chika Takagi, Naoko Inoue, Toshihiko Takahashi, Naoko Sakurai & Yoshinori Fujiwara, Structural analysis of the effects of dietary and lifestyle habits, socio-economic status, and three health-related factors on urban elderly in Japan: International Journal of Urban Sciences, 2012; 16(1): 23-36
- 2) Suwen Yang, Tanji Hoshi et al. The Effects of Socio-economic Status and Physical Health on the Long-term Care Needs of Urban Japanese Elderly: A Chronological Study. Environmental Health and Preventive Medicine (EHPM), 2013. 18(1):33-39.
- 3) Suwen Yang, Tanji Hoshi et al. Causal relationships between socio-economic status, physical health and long-term needs among the Japanese urban elderly. The Journal of Aging and Physical Activity (JAPA), 2012.20.

### 2. Proceedings of Oral Presentations

- (1) 2011.7.23-24 52th Social Medicine Conference in Japan, oral presentation, title "The Related Factors of Emerging and Reemerging Infectious Diseases in East and Southeast Asia";
- (2) 2012.3.19-22 1<sup>st</sup> World Congress on Healthy Ageing, "Evolution: Holistic Ageing in an Age of Change", in Malaysia, poster presentation, title "Chronological causal relationships between socio-economic status, lifestyle habits and health-related factors in the Japanese urban elderly";
- (3) **2012.5.4-6** 2<sup>nd</sup> Asia-Pacific Conference on Health Promotion and Education, in Taiwan, oral presentation, title "Causal Relationship between Socio-economic Status, Physical Health and Long-term Care Needs of Japanese Urban Elderly".
- (4) **2012.7.7-8** *21<sup>th</sup> Japanese Society of Health Education and Promotion in Japan*, **oral** presentation, title "The effects of socio-economic status and health-related factors on healthy lifestyle habits among Japanese urban elderly";
- (5) **2011.7.15-16** *53th Social Medicine Conference in Japan*, **oral** presentation, title "The chronological relationships between socio-economic status, physical health and long-term care needs of Japanese urban elderly";
- (6) 2012.8.13-17 8th World Congress on Active Aging, in Glasgow, Scotland, poster presentation, title "Causal relationships between socio-economic status, physical health and long-term care needs among the Japanese urban elderly".
- (7) **2012.5.4-6** 71<sup>th</sup> Japanese Society of public health, **poster** presentation, title "Socio-economic status, physical health and survival of Japanese urban elderly".

## 3. Monographs / Technical books in Japanese

Tanji HOSHI editor, Public Health Igakushoin, 2012.

Tanji HOSHI editor, Public Health Administration, Japanese Nurse Association, 2012.

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2) Overview of Research Activities in 2012

Architectural Planning of Medical Emergency Center

Kenji TAKEMIYA

This study aims at making clear the characteristics and architectural planning of medical emergency center. This year we had two research projects.

- 1) To show the current conditions and issues of the medical emergency centers in Japan, questionnaire survey of the 233 medical emergency centers were curried out.
- 2) To show the requirement of the facilities in medical emergency center, interview survey were curried out in some medical emergency centers.

Studies on the facility planning that corresponds to the progress of cancer care

Kenji TAKEMIYA

This study is intended to show the planning requirements of the support environment for cancer patients and their families. We conducted the field survey in the cancer salons and cancer counseling and support centers in Shimane Prefecture and analyzed by the following three aspects.

- 1. To clarify the position of the cancer salons in the cancer policy in Shimane Prefecture
- 2. To clarify the management, the spatial configuration and the actual usage of the cancer salons
- 3. To clarify the management, the spatial configuration and the actual usage of cancer counseling and support centers

Residential Care System and Milieu for the Elderly and People with Disabilities Kenji TAKEMIYA

For the progressive aging society, it is important to improve the quality of living environment for the elderly and disabilities in Japan. This year, some remarkable results were got as follows:

- 1) A Secular change of management, facility environment, and actual use in old folks' home, Comparative analysis after seven years period in the old folks' home 'KS'
- 2) Characteristics of utilization in the small-scale facilities for the elderly which utilize the spatial structure of Japanese old folk houses, Case study in the old folks' home 'A'
- 3) List of Research Activities in 2012
- 1. Refereed Papers

Kenji TAKEMIYA, Hikaru ABE

Dynamic flows and behavior analysis of inpatients in a psychiatric hospital

Continuous research in K hospital for 3 years

Journal of architecture and planning (Transaction of AIJ), Vol.78, pp.25-33, Jan., 2013

### Kenji TAKEMIYA

Analysis of the inpatient dynamics in mental health care facilities

A basic study on the environment to support the recovery of psychiatric patients

Journal of the Japan Society for Healthcare Administration, Vol.49, No.3, pp31-43, July. 2012(in Japanese)

### 2. Proceedings of Oral Presentations

### Kenji TAKEMIYA, Hikaru ABE

Analysis of postural and interpersonal behavior of patients in shared space of an acute psychiatric ward Study on social rehabilitation system and sheltered care settings for person with mental disorder Part.4, Summaries of Technical Papers of Annual Meeting E-1, AIJ, pp.395-396, 2012 (in Japanese)

### YOKOMORI Kei, SHIMAZU Erena, KOBAYASHI Kenichi and TAKEMIYA Kenji

Emergency Medical System and Management Situation of Emergency Medical Centers in Japan - Research on Treatment Environment in Emergency Medical Center Part 5 -

Summaries of Technical Papers of Annual Meeting E-1, AIJ, pp.367-368, 2012(in Japanese)

### KOBAYASHI Kenichi, SHIMAZU Erena, YOKOMORI Kei and TAKEMIYA Kenji

Analysis of Situation of Management System and Treatment Environment in Emergency Centers -Research on Treatment Environment in Emergency Medical Center Part 6 -

Summaries of Technical Papers of Annual Meeting E-1, AIJ, pp.369-370, 2012(in Japanese)

### SHIMAZU Erena, YOKOMORI Kei, KOBAYASHI Kenichi and TAKEMIYA Kenji

Analysis of Floor Plans of Emergency Medical Centers in Japan -Research on Treatment Environment in Emergency Medical Center Part 7-

Summaries of Technical Papers of Annual Meeting E-1, AIJ, pp.371-372, 2012 (in Japanese)

### MINENO ayumi, JEON Yong-Il, TAKEMIYA Kenji

An Analysis of the activitys of Cancer Salon in Shimane Prefecture Study on the planning of health care facilities for developed treatment for patients with cancer (5)

Summaries of Technical Papers of Annual Meeting E-1, AIJ, pp.413-414, 2012 (in Japanese)

### JEON Yong-II, TAKEMIYA Kenji

An Analysis of management and actual use of Cancer Counseling and Support Centers in Shimane Prefecture

Study on the planning of health care facilities for developed treatment for patients with cancer (6) Summaries of Technical Papers of Annual Meeting E-1, AIJ, pp.415-416, 2012 (in Japanese)

### Kenta ICHIKURA, Kenji TAKEMIYA

Study on the facility management and planning in the clinics to provide palliative care

Summaries of Technical Papers of Annual Meeting E-1, AIJ, pp.423-424, 2012 (in Japanese)

### Ryohei MINEKAWA, Kenji TAKEMIYA

Characteristics of utilization in the intergenerational exchange facility which utilizes the existing housing

Case study in the T facility

Summaries of Technical Papers of Annual Meeting E-1, AIJ, pp.441-442, 2012 (in Japanese)

### Hideaki KITAHARA, Kenji TAKEMIYA

Characteristics of utilization in the small-scale facilities for the elderly which utilize the spatial structure of Japanese old folk houses

Case study in the old folks' home 'A'

Summaries of Technical Papers of Annual Meeting E-1, AIJ, pp.453-454, 2012 (in Japanese)

### Kim Sung-Ryong, Kenji TAKEMIYA

A secular change of management, facility environment, and actual use in old folks' home

Comparative analysis after seven years period in the old folks' home 'KS'

Summaries of Technical Papers of Annual Meeting E-1, AIJ, pp.455-456, 2012 (in Japanese)

### Noriyuki UEAKASAKA, Kenji TAKEMIYA

Case study on a trial stay for pediatric patient on a ventilator

Study on architectural planning of the respite care facilities for children with severe motor and intellectual disabilities PART.2

Summaries of Technical Papers of Annual Meeting E-1, AIJ, pp.489-490, 2012 (in Japanese)

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### 2. Overview of Research Activities

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.

Research on Social Changes of Ex-Mining Town

The research has been conducted in Ube City and Mine-City of Yamaguchi Prefecture, focusing on social structural changes after the mine closing.

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 evacuees from Fukushima, especially from Tomioka Town.

### 3. List of Research Activities

### 3-2. Proceedings of Oral Presentations

Yamamoto, Kahoruko

"Comparative Sociology of Ex-Mining Town II-"

The Japan Sociological Society, the 85th Annual Meeting, Nov. 2012.

Yamamoto, Kahoruko

"The Art Project in Kotobuki, Yokohama"

Research Conference of Global City, Jan. 2013.

### 3. Others

Yusuke Yamashita, Kahoruko Yamamoto and others

"Widening Social Differentiation and a Split within a Relationship among the Evacuees from the

Fukushima No. 1 Nuclear Power Plant Accident: A Report based on the interview research to the Evacuees"

"Ningen to Kankyou" Nihon Kankyou Gakkai: 38-2: 10-21.

### Kahoruko Yamamoto

"A sense of discomfort of the Evacuees from Tomioka, Fukushima to breaking with nuclear power generation"

"Shukan Kin'youbi", 905: 28-29.

### 4. Scientific Research Fund

"International comparative research for the changes of social structure in the urban underclass area"

### 5. Lecture

"Widening Social Differentiation and a Split within a Relationship among the Evacuees from Tomioka, Fukushima"

TMU Open University, Nov. 2012.

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### 2. Overview of Research Activities in FY 2012

Study of policymaking in local governments and citizen participation in local assemblies

For this investigation of policymaking dynamics in Japanese local governments, I have focused on citizen participation in local assemblies. Using national survey data on local-assembly reformation between FY 2007 and FY 2012, my research found rapid development in citizen participation in the assemblies and in the disclosure of assemblies, but little improvement in the area of deliberation between legislators. I have also investigated the impact of local-assembly fundamental ordinances, which promote reformation, by comparing assemblies that have such fundamental ordinances with those that do not. My research has revealed that assemblies with such fundamental ordinances have much higher standards of citizen participation and disclosure than those that do not, but that there remains relatively little difference among the assemblies in the deliberation between legislators themselves.

Study of the relevance of random sampling-type citizen participation methods for disputed policy issues in municipal governments

I have investigated the methods and relevance of using citizen participation samples, in which participants are selected randomly from the basic resident register (recently called "Mini-Publics"), for the handling of disputed policy issues in municipal governments. As part of my research, this year I conducted surveys on how program reviews (jigyoushiwake) are implemented in all the municipalities of Tokyo Metropolis, Saitama Prefecture and Kanagawa Prefecture, focusing in particular on how "Mini-Public" citizen participation methods are being used in the reviews. In addition, I participated as a reviewer and coordinator in "Program Screening" at Wako City in Saitama Prefecture, in which randomly selected citizens acted as reviewers and observers.

- 3. List of Research Activities in FY 2011
- 1. Refereed Papers
- 2. Proceedings of Oral Presentations

Motoki Nagano, "Brief on the results of the annual progress survey on local-assembly reformation in Japan 2012". 12th Exchange Conference Between Citizens and Legislators for Creating Local Ordinance 2012, June 2012, Ichigaya, Tokyo, Housei University (in Japanese).

Motoki Nagano, "Participatory program review of municipal governments in the Tokyo metropolitan area: political initiatives, deliberation, and capacity building". International Symposium on Sustainable Urban Environment (ISSUE) 2012, Tokyo-Seoul Joint Seminar 2012 (ISSUE satellite seminar), Nov.2012, Minami-Oosawa, Tokyo, Tokyo Metropolitan University.

#### 3. Others

### 3-1 Technical Books

Motoki Nagano, Analysis of local assembly fundamental ordinance articles: Reformation trends revealed in local assembly fundamental ordinances issued in 2011. In: Katsuya Hirose and Local Assembly Reformation Forum, eds., White Paper of Local Assembly Reformation 2012, Seikatsusha Ltd., Tokyo, pp. 182-201, June 2012 (in Japanese).

### 3-2. Research Reports/Papers

Motoki Nagano, Minoru Makise, and Katsuya Hirose, "Survey report on participatory program review of municipal governments in Saitama Prefecture". The Monthly Journal Jichiken, Vol. 54, No.632, pp.39-48, May 2012 (in Japanese).

Motoki Nagano, "Summary report of the annual progress survey on local assembly reformation in Japan 2012". In: Katsuya Hirose and Local Assembly Reformation Forum, eds., White Paper of Local Assembly Reformation 2012, Seikatsusha Ltd., Tokyo, pp. 116-126 June 2012 (in Japanese).

### 3-3. Monographs

<u>Motoki Nagano</u>, "Deliberation on disputed policy issues through random sampling-type citizen participation". Journal of Training for Local Government Staff, 46(5), pp. 20-22, May 2012 (in Japanese).

Motoki Nagano, "Program reviews and random sampling-type citizen participation in Japanese municipal governments". Area Development, 574, pp. 51-55, July 2012 (in Japanese).