

Department of Urban System Science 2014 Annual Report

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

Shin AIBA, Associate Professor

Tanji HOSHI, Professor

Taro ICHIKO, Associate Professor

Fumiko ITOH, Professor

Satoru KATO, Professor

Motoi NAGANO, Associate Professor

Hiroyuki ONEYAMA, Professor

Kenji TAKEMIYA, Professor

Hidenori TAMAGAWA, Professor

Kahoruko YAMAMOTO, Associate Professor

Prof. Hoshi and Prof. Kato were retired by the age limit in March of 2015. Prof. Takemiya has moved to the Department of Architecture in this April. Prof. Oneyama is also a member of the Department of Civil & Environmental Engineering. Please refer to its site as for his report.

<< Shin AIBA >>

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2) Overview of Research Activities in 2014FY

1. 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 and international conference.

2. 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).

3. 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.

4. Technologies to support machizukuri

Shin AIBA

I develop technologies to support discussion and consensus building by citizens. I develop a game to support to exchange ideas of machizukuri by citizens.

3) List of Research Activities in 2014FY

1. Refereed Papers

Sota Terasawa and Shin Aiba, The Role of the temporary mall in the Commercial revival from East Japan Great Earthquake Disaster- A case of 3 cities in south coast of Iwate prefecture -, Journal of CPIJ, No.49-3, pp.291~296, CPIJ, 2014

2. Proceedings of Oral Presentations

Junji AIKI & Shin AIBA, Evaluation of Tokyo's City Planning in 1973-2000: Relationship of Urban Space and Floor Area Ratio That Focuses on Original Land Use of Tokyo with Zoning Regulation, The International Symposium on City Planning 2014 (CD~ROM), 2014.11

Shin AIBA, Hirotaka IKEDA, Shuhei KIMURA and Shosuke SATOH ,Participative planning of a community revival plan after the Great East Japan earthquake tsunami disaster A case study of a frequently stricken area in the Iwate prefecture, Proceedings of the 3rd International Conference on Urban Disaster Reduction, (CD~ROM),2014.9

<< Tanji HOSHI >>

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2) Overview of Research Activities in 2014FY

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 in suburban city.

3) List of Research Activities in 2014FY

1. Refereed Papers

Socioeconomic Status, Comorbidity, Activity Limitation, and Healthy Life Expectancy in Older Men and Women: A 6-Year Follow-Up Study in Japan. ; Yang S; Hoshi T, Wang S, Nakayama N, Kong F ; Journal Of Applied Gerontology: The Official Journal Of The Southern Gerontological Society Date of Electronic Publication: 2014 Jan 26.

Association between socioeconomic status (SES), mental health and need for long-term care (NLTC)—A Longitudinal Study among the Japanese Elderly" ; Fan-Lei Kong ,Tanji Hoshi, Bin Ai b, Zu-Min Shi ,Naoko Nakayama ,Shuo Wang , Su-Wen Yang Archives of Gerontology and Geriatrics 59, 372–381,2014

Does Social Interaction Explain Socioeconomic Inequalities in Health Status? Results from the Japanese Community-Dwelling Elderly Age 65 to 84 Years. ; Wang Shuo, Hoshi Tanji, Ai, Bin ; Educational Gerontology (2) 81-92, 2014

3. Monographs / Technical books

Tanji HOSHI editor, Public Health Administration, Japanese Nurse Association, 2014.

Tanji HOSHI Takao Tashiro editor, Health Science Japanese Broadcast University Publisher 2014

<< Taro ICHIKO >>

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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 2014FY

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 2014, Community workshops for post-disaster recovery in Higashi-kanamachi, Katsushika-ward were managed and delivered. Adding to that, an action research on the 16th 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 2014FY

2. Oral presentation

Taro ICHIKO(2014)An action research of community-based housing recovery from the big TUNAMI disaster in Kesenuma, Japan, 3rd ICUDR, Oral session, Boulder, USA, September28-October 1, 2014

3. Others

3.4 Invited speech

Taro ICHIKO (2014) What can planners do for post-disaster recovery? accompany-with approach as a context of Japanese planning realm, disaster research exchange seminar, Ming Chuan University, 2014 June

<< Fumiko ITOH >>

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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 2014FY

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. This year, following topics are researched.

- i) Sustainable environment of residential area: Eco housing in the newtown area,
- ii) Electric Vehicle: Purchase preferences and its determinant factors,
- iii) The structure of demand and supply in housing market of secondhand apartments,
- iv) Relation between the change in sky factor and impression of street.

2. Estimation of urban environment and urban projects

Fumiko Ito

Urban environment and the urban projects for building up the environment were analyzed using GIS or benefit analysis. This year, following topics are researched.

- i) Conjoint analysis on the function composing Parking Area of highway,

- ii) Relation between the residents' estimation and the environment of housing environment,
- iii) Estimation of stations' territories by Kernel method using people flow project data,
- iv) Optimal location of bicycles and port for community cycle system.

3) List of Research Activities in 2014FY

1. Refereed papers

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

ARIYOSHI Mariko and ITO Fumiko (2014) Pedestrian Route Choice in the Buildings Focused on Vertical and Horizontal Direction [in Japanese], Summaries of technical papers of annual meeting (Urban Planning and Design), 821 - 822.

SEINO Hirokatsu and ITO Fumiko (2014) A study on location of the bicycle and port in Community Cycle System: Case study of Yokohama Baybike [in Japanese], Summaries of technical papers of annual meeting (Information Systems Technology) , 51 - 52.

KOBAYASHI Mirano and ITO Fumiko(2014) Analysis of the existing housing market based on Internet Information: Case study in and around KICHIJOJI [in Japanese], Summaries of technical papers of annual meeting (Architecture System and Management), 51 - 52.

TKEUCHI Yuma and ITO Fumiko (2014) Estimation of Station's Territories By Kernel Method Using People Flow Project Data, CSIS DAYS 2014: Research Abstract on Spatial Information Science, 25

3. Others

3-2. Research Reports / Papers

TSUCHIYA Yoriko and ITO Fumiko (2014) Analysis of Purchase Preferences for Electric Vehicles and Its Determinant Factors [in Japanese] CSIS Discussion Paper No.129.

TAKEUCHI Yuma and ITO Fumiko (2014) Detailed Estimation of Station's Territories Using People Flow Project Data [in Japanese] Papers and proceedings of the

Geographic Information Systems Association of Japan, Vol.23, D-1-5.

Shoko NISHIO and Fumiko ITO (2014) Proposal for Sky Factor Calculation System Using Panoramic Image of Google Street View Part2: The Improvement of The System and Its Availability [in Japanese] Papers and proceedings of the Geographic Information Systems Association of Japan, Vol.23、 E-2-1.

<< Satoru KATO >>

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Satoru Kato

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2) Overview of research activities in 2014FY

1. Infinite dilution partial molar excess entropy-enthalpy compensation for thiophene, carbon dioxide and water in ionic liquids

Satoru KATO

Infinite dilution partial molar excess entropy-enthalpy compensation for polar solutes in ionic liquids (IL) is investigated using the literature data of infinite dilution activity coefficient, $\ln\gamma_1^\infty$. It is shown that entropy-enthalpy compensation holds for the polar solutes, such as thiophene and CO₂, and non-polar solutes, such as heptane and toluene. For the water + IL binaries, a converged linear relationship between infinite dilution partial molar excess entropy and enthalpy holds. Using the compensation rule, it is shown that, for the efficient removal of thiophene and CO₂ with IL solvents, ILs having weaker molecular interactions with thiophene and CO₂ are advantageous, because the entropy terms control the $\ln\gamma_1^\infty$ values.

2. An empirical consistency test using thermodynamic consistency lines for the binary VLE data

Satoru KATO

An empirical consistency test is proposed for application to polar binaries. Using a significant number of the Margules binary parameters from the literature reported by different authors using different equipment, it was shown that polarity exclusion factor, β , converges to a straight line drawn on a log-log scale formulated as $\beta = aP^b$ using the system pressure, P , of the constant–pressure data or the average vapor pressure of the constant–temperature data. It was also shown that β is a polarity-independent variable. An application of the test to ternary LLE data is demonstrated

3. Vapor-phase mole fractions determined from the P, x data using the Margules equation for high-pressure binary VLE systems including carbon dioxide

Satoru KATO

High-pressure P, x data for CO₂+hydrocarbons, +methanol, +ethanol and +water binaries were correlated using the Margules equation. The average relative difference between experimental data and the correlation was as low as 1 % at $T < T_{c1}$, where T and T_{c1} denote the system temperature and the critical temperature of the lighter component. It was found that the average relative difference of the vapor phase mole fractions from the Margules equation representing the P, x data is 0.6 % for the asymmetric and non-azeotropic binaries. A criterion for identifying the non-azeotropic binaries is proposed. The strength of molecular interactions and molecular order were identified for the azeotropic and zeotropic mixtures using partial molar excess enthalpies and entropies at infinite dilution. A method for the high-precision correlation of infinite dilution activity coefficients is proposed.

4. Influence of ionic liquids on enzymatic enantioselectivity

Hidetaka NORITOMI, Hideki CHIBA, Manabu KIKUTA, Satoru KATO

The enantioselectivity of α -chymotrypsin in the esterification of *N*-acetyl-tryptophan with ethanol was examined in aprotic ionic liquids. The enantioselectivity was found to be strongly affected by a kind of solvent, water content, and reaction temperature. The $(k_{cat}/K_M)_L / (k_{cat}/K_M)_D$ ratio in 1-ethyl-3-methylimidazolium bis (fluorosulfonyl) imide ([C₂mim][FSI]) containing 1.0% (v/v) water at 25°C exhibits 32000, while that in 1-ethyl-3-methylimidazolium tetrafluoroborate ([C₂mim][BF₄]) containing 1.0% (v/v) water at 25°C shows 190. The $(k_{cat}/K_M)_L / (k_{cat}/K_M)_D$ ratio in [C₂mim][BF₄] at 25°C varies from 190 at 1.0% (v/v) water to

65000 at 5.0% (v/v) water. Moreover, the $(k_{cat}/K_M)_L/(k_{cat}/K_M)_D$ ratio in [C₂mim][FSI] containing 5.0% (v/v) water can be forced to induce a 7-fold increase simply by switching from 25°C to 40°C. The enantioselectivity tended to correlate with enzyme reactivity in ionic liquids.

5. Adsorption of α -chymotrypsin on plant biomass charcoal

Hidetaka NORITOMI, Keito HISHINUMA, Shyunichi KURIHARA, Jumpei NISHIGAMI, Tetsuya TAKEMOTO, Nobuyuki ENDO, Satoru KATO

The adsorption of α -chymotrypsin onto plant biomass charcoal (PBC), which was prepared from plant biomass wastes such as bagasses and dumped adzuki beans by pyrolysis, has been examined. The PBC was characterized by SEM, specific surface area, and pore size distribution. The adsorption isotherms were successfully correlated by the Freundlich equation. The amount of α -chymotrypsin adsorbed on PBC was dramatically dependent upon the solution pH and temperature. Maximum adsorptions of α -chymotrypsin on adzuki bean charcoal and bagasse charcoal were observed at weak acidic and near neutral pH, respectively. The amount of α -chymotrypsin adsorbed on PBC decreased with an increase in the concentration of salts. Plots of the amount of α -chymotrypsin adsorbed on PBC versus temperature exhibited an optimum temperature.

6. Formation and solubilization property of water-in-oil microemulsions of alkyl glucosides

Hidetaka NORITOMI, Yuki ISHIDA, Tomokadzu YAMADA, Hiroaki SAITO, Satoru KATO

The dependence of solubilization properties on the alkyl chain length of alkyl glucosides (AG) in AG/isooctane/n-butanol/water system was investigated. The stable Winsor II system consisting of a water-in-oil (w/o) microemulsion phase and an aqueous phase was formed in AG/ isooctane/n-butanol/water system. The apparent critical micelle concentration of AG reverse micelles in organic phases was markedly dependent upon the alkyl chain length of AG. The limiting amount of solubilized water increased with an increase in the alkyl chain length of AG. The solubilization capacity of methyl orange (MO) was superior to that of methylene blue (MB), and the solubilization capacities of MO and MB tended to increase with increasing the alkyl chain length of

AG. Reverse micelles of dodecyl glucoside (AG12) exhibited the significant solubilization capacities of cytochrome c and lysozyme, while ribonuclease A was not solubilized by AG12 reverse micelles.

7. Application of reverse micelles of alkyl glucosides to synthesis of silver nanoparticles

Hidetaka NORITOMI, Saori MIYAGAWA, Naohiro IGARI, Hiroaki SAITO, Satoru KATO

Silver nanoparticles were prepared in reverse micelles of alkyl glucosides by the injection method. The TEM image showed that the obtained silver nanoparticles displayed a wide variety of shapes. The size of silver nanoparticles was strongly dependent upon a kind of reducing agents, and tended to slightly increase with an increase in reaction temperature. The size of silver nanoparticles was hardly dependent upon the molar ratio of water to surfactant and the alkyl chain length of surfactants. Silver nanoparticles having various sizes and shapes were obtained at high concentration by the solid-liquid extraction method. The resultant silver colloid could be preserved for at least one month without precipitation.

8. Efficient protein refolding using surfactants at high final protein concentration

Hidetaka NORITOMI, Yoshiyuki KATO, Satoru KATO

The refolding of denatured hen egg white lysozyme (HEWL) was examined by surfactants at a high final refolded HEWL concentration (1 mg/mL). Hexadecyltrimethylammonium bromide (CTAB) and sucrose fatty acid monoester (DK-SS) were used to dissolve denatured HEWL without denaturants such as guanidine hydrochloride (GuHCl) and urea. When denatured HEWL was perfectly dissolved in buffer solutions containing surfactants and dithiothreitol (DTT), the concentration of CTAB was about one-twentieth times less than that of DK-SS. The concentration of CTAB strongly affected the refolding yield, and the maximum refolding yield was obtained at 0.88 mM CTAB, which is around the critical micelle concentration of CTAB. The refolding yield was influenced by the molar ratio of oxidized glutathione (GSSG) to DTT, and the maximum refolding yield was obtained when [GSSG]/[DTT] was 1.5. The refolding yield was markedly dependent upon the solution pH of HEWL, and exhibited 80 % at pH 5.2.

3) List of research activities in 2014FY

1. Refereed papers

Joerg FREITAG, Hitoshi Kosuge, Juergen P. Schmelzer, Satoru Kato, 2014 VLE measurement using a static cell vapor phase manual sampling method accompanied with an empirical data consistency test, J. Chem Thermodynamics, 80 (2015) 92-101.

Masahiro Ichikawa, Satoru Kato, 2014 Vapor-liquid equilibrium measurements for carbon dioxide + alcohol systems at the subcritical conditions of carbon dioxide, ICSST 2014, AP-06.

3. Others

List of society presentations

S. Kato, 2015 A total correlation using TC lines for the users of distillation towers, Proc. of 80th Annual Meeting of Soc. Chem. Eng., Japan, I214.

<< **Motoki NAGANO** >>

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2) Overview of Research Activities in 2014FY

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

For this investigation of policymaking dynamics in Japanese local governments, I focused on two issues. First, I began to survey the Tokyo metropolitan government's policy transitions on urban regeneration at the turn of the 2000s, using an oral history

approach. Second, I investigated citizen participation in local assemblies. Using a nationwide mail questionnaire survey and local assembly fundamental ordinances survey, I analyzed the status of policy reforms and citizen participation in Japanese local assemblies. In addition, I analyzed how the local assembly fundamental ordinances issued in the mid-2000s evolved due to these reform trends..

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

I investigated the methods and relevance of using citizen participation samples (recently dubbed “Mini-Publics”), in which participants are selected randomly from the basic resident register, for the handling of disputed policy issues in municipal governments. As part of my research, I published a peer-reviewed paper on the Citizen Conference on the Second Municipal Implementation Plan for Shinjuku City, Tokyo, 2011. In this conference, randomly nominated residents discussed and reviewed projects selected by the city government to be implemented as part of the official municipal plan. In addition, based on these results, I conducted a comparative study with another city’s cases on program reviews (jigyō shiwake) and public utility building plan screenings, which were almost identical to the citizen participation samples noted above.

3) List of Research Activities in 2014FY

1. Peer-reviewed papers

Motoki Nagano, “Project Assessment by Deliberative Democracy-Based Participation in Government: A Case Study of the Citizen Conference on the Second Municipal Implementation Plan for Shinjuku City, Tokyo”, *The Annals of the Japanese Society for Public Administration*, Vol. 49, pp. 99-119, May, 2014. [in Japanese]

2. Proceedings of oral presentations

Motoki Nagano, “Brief on the results of the annual progress survey on local-assembly reformation in Japan 2014”. 14th Exchange Conference Between Citizens and Legislators for Creating Local Ordinance 2014, July 2014, Ichigaya, Tokyo, Hosei University. [in Japanese]

Motoki Nagano, “Urban Regeneration Policy in Tokyo Metropolitan Government:

Continuance and Transformation at the turn of 21st century”. 10th Joint Seminar between the University of Seoul and Tokyo Metropolitan University, November 2014, Akihabara, Tokyo, Tokyo Metropolitan University.

3. Others

3-1 Technical books

As co-author

Katsuya Hirose and Local Assembly Reformation Forum, eds., White Paper of Local Assembly Reformation 2014, Seikatsusha Ltd., Tokyo, November 2013. [in Japanese]

Specific contributions

Motoki Nagano, “Evolution of local assembly fundamental ordinances; findings from revised articles surveys”. pp. 85-97, 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. 98-104, in *ibid.* [in Japanese]

Motoki Nagano, “Summary report of the annual progress survey on local assembly reformation in Japan 2014”. pp. 130-142, in *ibid.* [in Japanese]

3-3. Monographs

Motoki Nagano, “Citizen Panels for Participatory Program Reviews in Municipal Governance: Case Studies in the Greater Tokyo Area”, *The Annuals of Japanese Political Science Association*, 2014-II, pp. 41-65, January 2015. [in Japanese]

Book reviews

Motoki Nagano, Book review: Seiichiro Fujii’s *The Real Scenes and Theories of Residents Participation; Tomonoura and the Future of Landscape*, *Local Government Policy Studies*, Vol. 27-22, pp. 55, April 2014. [in Japanese]

Motoki Nagano, Book review: Akira Imagawa’s *Reconsideration on Local Autonomy*, *Local Government Policy Studies*, Vol. 28-21, 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”.

5. Lectures

Motoki Nagano, “Progress measurement and management in city planning”. Public forum for achieving steady progress in Komae City spatial master plan, Komae City, Komae City Hall, October 2014. [in Japanese]

Motoki Nagano, “The role of local assembly for developing collaboration with residents”. 62nd national training workshop for city councils secretariat officers, National Association of Chairpersons of City Councils, Sabo-Hall, Tokyo, January 2015. [in Japanese]

<< **Kenji TAKEMIYA** >>

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Architectural Planning, Environmental Behavior

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2) Overview of Research Activities in 2014FY

1. Medical and support environment for severe disabilities

This study aims at making clear the characteristics and architectural planning of medical and support environment for severe disabilities. This year we verified the spatial configuration and facility management of the respite care centers for their families.

2. Architectural planning of neonatal intensive care ward

This study is intended to show the planning requirements of the support environment for patients and their family in the neonatal intensive care unit. The status of the neonatal intensive care ward in Japan was verified. A survey of the pioneering neonatal intensive care ward was conducted, and the knowledge of a new ward plan was derived.

3. Residential Care System and Milieu for the Elderly

This study aims at improving the quality of living environment for the elderly. This year, some remarkable results were got as follows:

- 1) The facility planning and management of small scale multifunctional care facilities which put dwelling facilities adjacently in 23 wards in Tokyo.
- 2) The facility management and actual usage of health and social care centers for the elderly in T city..

3) List of Research Activities in 2014FY

1. Refereed Papers

Erena SHIMAZU, Kenji TAKEMIYA and Kenichi KOBAYASHI A study on management style, composition of facilities and actual use of emergency medical center
Journal of Archit. Plann. , NO.698 , p.901 , Apr.2014, (Japanese)

Yongil JEON and Kenji TAKEMIYA Space planning for designated cancer hospitals in japan to provide support systems for information, consultation, and communication
Journal of Archit. Plann. , NO.706 , p.2641 , Dec.2014, (Japanese)

Sungryong KIM, Kenji TAKEMIYA, Masakazu TAKAO STUDY ON ACTUAL USAGE AND MANAGEMENT OF OLD FOLKS HOME 'TAKUROUSYO', Analysis with time in KS AIJ Journal of Technology , NO.45 , p.653 , Jun.2014, (Japanese)

Yongil JEON, Kenji TAKEMIYA MANAGEMENT SITUATION OF CANCER SALONS IN JAPAN, A CASE STUDY IN SHIMANE PREFECTURE
AIJ Journal of Technology , NO.47 , p.259 , Feb.2015, (Japanese)

2. Proceedings of Oral Presentations

FUJIWARA Yuki, SHIMAZU Erena, KOBAYASHI Kenichi and TAKEMIYA Kenji
A Study on the planning and management of ER style emergency department , Research on Treatment Environment in Emergency Medical Center Part 9
Summaries of Technical Papers of Annual Meeting E-1, AIJ, pp.71-72, 2014 (in Japanese)

JEON Yong-il, TAKEMIYA Kenji Consultation, information, and intercommunion support system and environment of the designated cancer hospitals, Study on the planning of health care facilities for developed treatment for patients with cancer (8)

Summaries of Technical Papers of Annual Meeting E-1, AIJ, pp.73-74, 2014 (in Japanese)

NISHISAKA Naoko, TAKEMIYA Kenji Characteristics of utilization of the counseling and support centre for people with cancer and local residents, A case study of K center Summaries of Technical Papers of Annual Meeting E-1, AIJ, pp.75-76, 2014 (in Japanese)

AOKI Sakurako, TAKEMIYA Kenji, ISHIBASHI Tatsuo, KOBAYASHI Kenichi A study on the trends in planning of neonatal intensive care unit Summaries of Technical Papers of Annual Meeting E-1, AIJ, pp.105-106, 2014 (in Japanese)

TAKEMIYA Kenji, ICHIKURA Kenta Study on the management and facility planning of palliative care in the admitted clinics, Study on the facility management and planning in the clinics to provide palliative care (part.3), Summaries of Technical Papers of Annual Meeting E-1, AIJ, pp.125-126, 2014 (in Japanese)

ICHIKURA Kenta, TAKEMIYA Kenji Study on the practice of palliative care in the clinics, Study on the facility management and planning in the clinics to provide palliative care (part.4), Summaries of Technical Papers of Annual Meeting E-1, AIJ, pp.127-128, 2014 (in Japanese)

FUJISHIMA rika, TAKEMIYA Kenji Study on the management and planning of day service centers with severe motor disabilities, Summaries of Technical Papers of Annual Meeting E-1, AIJ, pp.129-130, 2014 (in Japanese)

KIM Sungryong, SEKINE Chisano, TAKEMIYA Kenji Actual condition of "Gyonrodan" in Seoul, A Study on planning of Pastime and support facilities for healthy elderly people Part.1, Summaries of Technical Papers of Annual Meeting E-1, AIJ, pp.165-166, 2014 (in Japanese)

SEKINE Chisano, KIM Sungryong, TAKEMIYA Kenji Case study "Gyonrodan" in Seoul, A study on planning of pastime and support facilities for healthy elderly people Part.2, Summaries of Technical Papers of Annual Meeting E-1, AIJ, pp.167-168, 2014 (in Japanese)

KITAHARA Hideaki, TAKEMIYA Kenji Study on facility management and usage of small-scale facilities for the elderly to provide voluntary services business, Case study in the old folks' home 'A', Summaries of Technical Papers of Annual Meeting E-1, AIJ, pp.169-170, 2014 (in Japanese)

<< Hidenori TAMAGAWA >>

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2) Overview of Research Activities in 2014FY

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

A study on “ordinary urban areas” have been proceeded since last year relating to the urban theory of Jane Jacobs. With a new grant from this FY on, we surveyed on a planned community in Pittsburg, two suburbs of New York and some community gardens in Lower Manhattan.

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

Expanding the third charrette work shop of last year with real job experiences of Noda village in Iwate prefecture, we held the fourth one in August, 2014. The public presentation to villagers was also conducted in February, 2015. This is the last FY by Grants-in-Aid for Scientific Research by JSPS and the final report will come soon.

3) List of Research Activities in 2014FY

2. Proceedings of Oral Presentations

Hidenori Tamagawa and Satoshi OKa, “A Study on Changes of Urban Structures Following with Abolished Railways”, Research Abstracts on Spatial Information Science of CSIS-Days 2014, 2014.11.22.

3. Others

3-2. Research Reports/Papers

Hidenori Tamagawa and Satoshi OKa, “A Study on Changes of Population Distribution Following with Abolished Railways – A Case Study in Hokuriku District”, Papers and Proceedings of the Geographic Information Systems Association Vol.23 (CD-R), 2014.11

3-4. Works/Others

Hiroshi Miyazaki, Hidenori Tamagawa et al. , “Re-valuation of housings and residence in 'ordinary urban areas'”, Sumairon (Jusoken Report) Vol.4, pp.3-26, 2014.7

<< Kahoruko YAMAMOTO >>

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2) Overview of Research Activities in 2014FY

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. Research on Social Changes of Ex-Mining Town

The research has been conducted in Kushiro-City, Hokkaido Prefecture, focusing on social structural changes in the era of degradation of the local mining industry.

4. Urban Sociological Research on Community Activities in the Suburb of Tokyo

The research has been conducted in Koganei, Tokyo, focusing on relations and differences between two kinds of community activities; one was started in the 1970s and the other in the 2000s

3) List of Research Activities in 2014FY

1. Refereed Papers

Kahoruko YAMAMOTO, 'Social Inclusion/Exclusion in Urban Underclass Area Facing Welfare Dependency: Focusing on 'Housing First' Approach for the Homeless People in Vancouver, Canada'. *The Annual Review of Sociology*, 27, 2014.

2. Proceedings of Oral Presentations

Kahoruko Yamamoto, Akihiko Sato, Yuko Matsuzono, Ryosuke Takaki and Mashiho Suga, Social Constructional Changes of Fukushima Refugees with "Community without Spaces" Concept, The Annual Conference of Japan Association of Regional and Community Association, in Waseda University, Tokyo on 10th of May, 2014.

Kahoruko Yamamoto, 'Impact of Social Change and Restructuring of Urban Underclass Areas on Homeless People: Case of Yokohama, Japan', *International Sociological*

Association: RC21 in Pacifico Yokohama, Kanagawa on 17th of July, 2014.

Kahoruko Yamamoto, 'Social Inclusion/Exclusion in Urban Underclass Area Facing Welfare Dependency: Focusing on 'Housing First' Approach for the Homeless People in Vancouver, Canada', The Annual Conference of the Japan Sociological Society in Kwansai Gakuin University, Hyogo on 22nd of November, 2014.

3. Others

Akihiko SATO, Ryosuke TAKAKI, Kahoruko YAMAMOTO & Yusuke YAMASHITA, 'Sociological Study of Nuclear Evacuation and the Role of Researchers', "Sociology in the Post-Disaster Society": 143-58., June, 2014.