

**Tokyo Metropolitan University**  
**Graduate School of Urban Environmental Sciences**  
**Department of Tourism Science**



**TOKYO METROPOLITAN  
UNIVERSITY**

# ANNUAL REPORT

Department of Tourism Science, Tokyo Metropolitan University





TOKYO METROPOLITAN  
UNIVERSITY

# ANNUAL REPORT 2020



Tokyo Metropolitan University  
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# 01 Research Staff



## Environmental Management Unit



### Toshio KIKUCHI

Professor

D. Sc. (The University of Tsukuba)

Agricultural and Rural Geography, Rural Tourism and Rurality-based Tourism, Food System and Food Tourism, Resource Management



### Shinya NUMATA

Professor

Ph.D. (Tokyo Metropolitan University)

Tropical Biology, Urban Ecology, Protected Area Management



### Takeshi OSAWA

Associate Professor

Ph.D (Kobe university)

Biodiversity Informatics, Conservation Science, Ecosystem management



### Etsuro TAKAGI

Assistant Professor

Ph.D. (Agriculture) The University of Tokyo

Forest zoology, Population ecology, Natural history



### Taiyo YAGASAKI

Research Assistant Professor

Ph.D. (University of Tsukuba)

Human Geography, Disaster Geography

## Regional and Urban Planning Unit



### Tetsuo SHIMIZU

Professor

Ph.D. (Civil Engineering),  
Tokyo Institute of Technology

Tourism Policy and Planning, Transport Studies



### Susumu KAWAHARA

Professor

Ph.D (Engineering) Waseda University

Urban Design and Planning, Community-based Tourism, Destination Management, Public-Private Partnership



### Yu OKAMURA

Associate Professor

Dr. of Engineering  
(The University of Tokyo)

Urban Design, Conservation Planning, Community-Based Tourism and Town Planning



### Mitsuru NODA

Assistant Professor

Ph.D • WASEDA University

Rural Planning • Urban & Regional Design • Community-based Tourism Development



### Yuki OHIRA

Assistant Professor

Ph.D (Engineering), Kobe University

Infrastructure Planning, Transport Studies



### Norie HIRATA

Research Assistant Professor

Ph.D (Tourism Science),  
Tokyo Metropolitan University

Place branding, Regional Planning, Space design



### Khanal Bishnu Prasad

Research Assistant Professor

Regional and Urban Planning Unit

Health Tourism, Tourism Management, Tourism Marketing

## Behavioral and Management Sciences Unit



### Yohei KURATA

Associate Professor

Ph.D. (Spatial Information Science)  
(University of Maine, USA)

Tourism Informatics, Spatial Information Science



### Taketo NAOI

Associate Professor

Doctor of Philosophy, University of Surrey

Doctor in Engineering, Tokyo Institute of Technology

Tourism Studies



### Katsuya HIHARA

Associate Professor

Ph.D. (University of Tsukuba)

Micro-economics, Management, Tourism/Transport Policy



### Wu Lingling

Associate Professor

Ph.D  
Hiroshima University

Tourism marketing, integrated tourist behavior modeling, big data analysis in tourism



### Yu OGASAWARA

Assistant Professor

Ph.D  
Hiroshima University

Social systems engineering



### Makiko ASO

Research Assistant Professor

MA in Tourism (University of the Ryukyus, Japan)

MBA (Graduate School of Management, Kyoto University, Japan)

Service Marketing, Tourism Education, Regional Management

## Explorations of comparative ruralism in the UK and Japan

Toshio KIKUCHI     Martin Phillips (Visiting Professor and Professor of Geography, University of Leicester, UK)

Rural Japan and the UK are locations that are both subject to considerable change and there is significance scope for scholars to engage and learn from each other. There has been some interaction centred around ideas of rural/agricultural restructuring, the commodification of rural space and sustainability, but there has been a tendency for flows to have been limited to these issues and for West-East flows to have been predominated. The present proposal seeks to counter these tendencies by examining the potential for developing a UK-Japan 'comparative ruralism' that identifies and addresses key processes of rural transformation within both countries and employs dialogical learning that enable

the flow of ideas and practices equally between the two countries. The aims of this project are to facilitate the development of comparative rural research in Japan and the UK, to develop strategies for conducting co-produced comparative rural research that fosters dialogical interaction and multi-directional flows of ideas, understandings and practices, to develop comparative understandings of key transformations in rural space in Japan and UK including: processes of agricultural change, rural demographic change, rural housing

development and processes of rural gentrification, and to scope nine rural comparative research projects for future collaborative investigation and funding applications.



*Fieldwork of rural gentrification in the Midlands, England*

## Rural restructuring with the framework of food tourism in developed countries

Toshio KIKUCHI

In the paradigm of post-production, food tourism is developing as a phenomenon of rural restructuring in some areas,



*Fieldwork of beer tourism in and around Dunkirk, France*

especially in Western countries. The framework of food tourism is an expanded version of conventional rural tourism, which includes not only local food and gastronomy but also the culture and traditions of that area. In the last two decades, food tourism has attracted attention in various fields, including geography and tourism, as a form of sustainable tourism, making use of local resources. This research project uses some case studies to explore the relation between a traditional agriculture and sustainable rural

tourism. The research method consisted of gathering data through fieldwork, which included investigations of the distribution of tourist attractions and land use, and analysing the data from a geographical perspective. Through analysis and discussion, we found that there is a multiplex of food tourism, which consists of rural tourism, agritourism, slow food tourism and gastronomic tourism, and that tourists consume tourism resources, which are themed to the traditional brewing culture in each kind of tourism.

## Strategies for sustaining and developing Japanese agriculture in terms of regional conditions

Toshio KIKUCHI

One of the greatest problems of contemporary agriculture in Japan is how to maintain and develop food production. Strategies for sustaining and developing agriculture in Japan are discussed based on some case

studies. According to case studies, the main elements of strategies for sustainable farm management are (1) ensuring capable farm operators, their successors, and farm laborers, (2)

building up rational farm management by promoting large-scale or intensified farm operation with advanced technology.

### Biodiversity conservation in urban ecosystems: people's nature experience and attitude towards nature

Shinya NUMATA E. Takagi,

In order to understand effects of ecosystem disservice on urban society, studies on urban dwellers' nature experiences, preference to plants and animals, and tolerance to dis-like animals have been conducted. In FY2020, a paper (Sugiyama et al. 2021) was published in Landscape and Urban Planning. In the paper, we discussed how negative perceptions

evoked from outdoor activities influence preferences for later outdoor activities. The results showed that childhood nature experiences decreased levels of disgust sensitivity and fear expectancy later in life. Disgust sensitivity influenced outdoor activity preferences, whereas fear expectancy did not. The SEM results suggest that childhood nature experienc-

es are a strong predictor of perceptions of outdoor activities. Therefore, I conclude that increasing contact with nature during childhood would be useful for decreasing negative perceptions of nature later on.

### Mechanism of tourism development support in a community-based tourism: the case of Gunung Ciremai National Park, Indonesia

Shinya NUMATA

Community-based tourism (CBT) is promising for diversifying local livelihood strategies while encouraging them to support conservation efforts, and an increased understanding of the mechanism on how tourism development supported by residents may unveil the key factors and their interrelationship. In the present study,

we found that essential determinants of CBT development support are associated with residents' sociodemographic profiles. Their sociodemographic profiles simultaneously affect the way on how they perceive tourism impacts (benefits and costs) and their decision to support CBT development in their communities.

Interestingly, regardless of the sociodemographic backgrounds, the degree to which residents' willingness to support CBT is mediated (i.e., fully and partially mediated) by their perceived benefits and costs (Prasetyo Nugroho, Ph.D. thesis).

### Biodiversity Informatics based on Natural history collection

Takeshi OSAWA

Natural history collection such as specimen, observation records and data from citizens are one of important resources for several research themes. Integrate these resources,

and conduct research using these we called "Biodiversity Informatics". In this year I published 2 data paper which opened specimen collection as previous

insect distribution records (Osawa et al. 2020 Ecol.Res; Yoshimatsu et al. 2020 Ecol.Res.).

### Discovery and evaluation of Ecosystem services

Takeshi OSAWA

Ecosystem services are defined as several benefits that humans gain from the ecosystems. Some of ecosystem services were already provide several benefits for human. However, there might be much more ecosystem

services which has insufficient recognition by human society. To grasp and quantitative evaluation is important for the conservation and sustainable use of ecosystem. In this year I published 3 papers which

evaluated cultural service (Osawa et al. 2020 Nat.Cons), regulation service (Osawa et al. 2020 Ecol.Ind.) and supporting service (Osawa et al. 2020 Sci.Rep).

### Management of alien invasive species

Takeshi OSAWA

There are too many invasive species in Japan and some of these could become alien invasive species which severely affects for regional biodiversity, human health and agricultural products.

Management of alien invasive species is important topic for biodiversity conservation and sustainable use of ecosystem services. In this year I evaluated over 10 years management

activity for alien invasive plant in Hakone national park (Osawa et al. 2020 J.Cons.Ecol in Japanese article).

### Population dynamics of insects and its effects on social-ecological systems including tourism

Etsuro TAKAGI

Insects are mega-diversity group. Their habitats are around the globe, and they play important roles in many ecosystems. In general, however, insects are not preferred by human. They are rarely tourist attractions.

Insects are ecosystem engineers in many ecosystems. Various insects modify ecosystems. Recently, an appreciation has

been developing of how these ecosystem engineers affect ecosystems ecologically and economically, namely property values, quantity and quality of marketable timber products, landscape aesthetics, recreational experiences, and tourism appeal. However, too data, limited information are available. Thus, I am focusing on the ecological and economi-

cal effects of insects which are ecosystem engineers on ecosystems.

I conducted field surveys, experiments and laboratory works, and revealed new knowledge on a bark beetle, which causes mass mortality in East Eurasia.

### Decrease in Population and Reorganization of Local Communities After the Great East Japan Earthquake

Taiyo YAGASAKI

The Great East Japan Earthquake in March 2011 caused a tsunami that resulted in a horrific disaster on the Sanriku coast of northeast Japan. Devastated locals witnessed the decrease in population and community reorganization during the process of reconstruction. On the other

hand, people affected by the tsunami relocated and moved to higher ground, and new population concentrations occurred in the interior areas of Kesennuma City. This project attempts to examine the structure of movements caused by tsunami after the Great East

Japan Earthquake. Local communities reorganize themselves by exercising their resilience, the response to which depend on the regional characteristics formed prior to the disaster.

### Fear and Curiosity in the Darkness: Ghost Tourism and Haunted Places in Japan

Taiyo YAGASAKI

Darkness in the night brings about the feeling of fear and a sense of liberation for human. Japanese ghosts called yokai and yurei were the creation of fear of darkness, while the fear continues to exist today being manifested as urban legends and the

occult. Urban legends and the occult are consumed as a result of human curiosity in the form of ghost tours. This study attempts to examine the relationship between the human feeling of fear and the feared places in Japan. Haunted

places and ghost tours are thus studied, by analyzing human fear of darkness in the night and ghost tourism based on the curiosity of fear.



### Methodological development on the use of statistics and big data for understanding on mechanisms on tourist behavior and tourism economics

Tetsuo SHIMIZU, Yuki OHIRA

First, economic impact by household income class and residence location of tourism promotion policies in West Papua Province, Indonesia was analyzed using regional social accounting matrix which has originally been developed. Second,

change of travel patterns of inbound tourist to Japan for recent years and their relations with international air flights at regional airports were analyzed using the FF-Data which expresses passenger flows among arrival airport, departing airport

and prefectures visited by quarter and by nationality. Third, method on short-term prediction of population in urban meshes using machine learning technique supported by Graph Convolutional Networks idea was developed.

### Researches on sustainable tourism policy/planning

Tetsuo SHIMIZU, Yuki OHIRA, Norie HIRATA, NGUYEN Van Truong

First, effect of willingness to use of public transport services as access transport means to foot path networks in suburban area on their level-of-service and adjacent tourist attractions was studied by stated

preference survey. Second, factors and their contribution level on tourist behavioral changes in Kamakura city as a case of congested tourist destination were studied by stated preference survey.

Third, education program of tourism digital marketing methods for experts in tourism-related organizations was developed and evaluated through experimental seminars.

### A Study on Systematization of Planning Techniques for Sustainable Destinations

Susumu KAWAHARA Yu OKAMURA

We worked on a planning theory that integrate both tangible (e.g., preservation and improvement of urban space and environment) and intangible plans (e.g., plans for tourism programs and contents creation.) to develop more sophisticated sustainable destination, especially due to the recent targets of tourism planning in Japan are biased towards intangible programs.

Our detail methods are

- to learn and reflect sightseeing behaviors and tourism resources in geographical / spatial environment
- to develop environmental improvement, utilize the private sites and the public sites together
- to realize a vision based on social experiments
- to support all the method above by organizational design, process design, and monitoring

In FY2020, we first organized new forms of tourism such as micro-tourism and virtual experience tourism such as online tours, which have become apparent in the COVID-19 pandemic, from the perspective

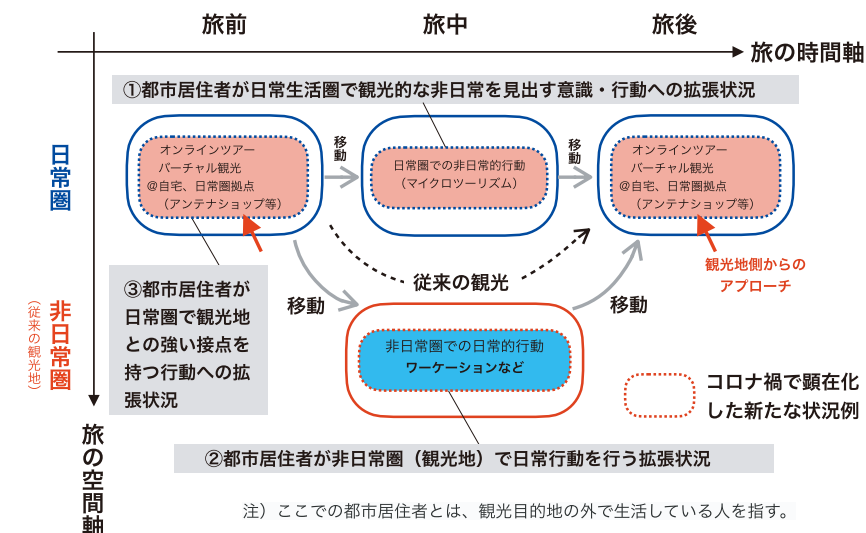


Fig. Expansion of the Tourism Concept in the Borderless Relationship between Leisure and Tourism  
Prepared by Subcommittee on Development of Sustainable Destination, Architectural Institute of Japan

of travel time and spatial movement, and then evaluated them from the perspective of the methodology that our research team has developed so far. Secondly, we accumulated interviews with key people who have started new movements to overcome the effects of The COVID-19 pandemic.

Third, based on the questionnaire survey of local governments nationwide and case studies, we proposed that the future of local government tourism administration should not only be based on flow-oriented efforts, focusing on promotion for short-term effects, but should also aim for stock-oriented efforts to leave a "legacy" in the region.

### Tourism and Regional Development through Collaboration of Businesses from Upstream to Downstream of Satoyama-Based Manufacturing

Susumu KAWAHARA Norie HIRATA

Tokigawa Town in Saitama Prefecture is a town with manufacturing industries, culture, and craftsmen based in satoyama, such as forestry and Japanese paper. This project aims to create tourism contents for people who share the values of living in harmony with nature, using these resources to enjoy DIY experiences while experiencing the story of manufacturing from upstream (material production) to downstream (product production). Through this project, we aim to promote multifaceted regional development through business collaboration with craftsmen, experts in tourism and urban development, and government agencies, with whom we have had little contact in the past.

In FY2020, a total of 14 workshops of three types were held for visitors to the area, in which they toured the area with

local craftsmen and took home specialty products made by themselves using wood and Japanese paper. Collaboration has been achieved among forestry workers, lumber dealers, furniture makers, braided paper makers, washi paper makers, construction companies, matching coordinators, designers, regional producers, regional trading companies, government agencies, and universities.

Kawahara Lab assisted in the planning and refinement of the workshop, created explanatory tools and a website, and conducted monitoring and willingness-to-pay surveys in a situation where it was difficult to openly invite the general public to participate in the Corona disaster.

The level of satisfaction on the part of

both craftsmen and participants was high, and many participants were willing to pay a relatively high amount for a one-day tour, which motivated us to strengthen our cooperation. Tokigawa Network: Tourism to Taste Satoyama Monozukuri from Upstream to Downstream!

HP <https://tokinet.mystrikingly.com>



### Development of Eco-study Tours as a Method of Managing the Historical Environment in Collaboration with the Local Community around the Imperial Tomb in Hue, Vietnam

Susumu KAWAHARA



fig. 360° image web content photographed by a drone for environmental understanding  
Created by Nguyen Quang Huy (Hue University of Science)

The tomb of the emperors of the Nguyen Dynasty, the last dynasty of Vietnam, has been recognized as a component of the UNESCO World Heritage Site "Complex of Hue Monuments". Our research team has shown that not only the buildings, but also

the surrounding natural environment, villages, and rice paddies were uniquely designed and planned to suit the climate of Vietnam, based on the Chinese concept of feng shui.

However, the damage caused by the

Vietnam War, the recent changes in agriculture and forestry, and the development of spaces for tourism purposes by capital outside the region are destroying the landscape and water utilization system.

Therefore, in order to share the original planning concept of the imperial mausoleum with villagers and government officials, as well as to preserve the historical environment of the imperial mausoleum and utilize it appropriately for tourism, we, the Japanese research team, have been experimenting with



fig. Screens viewed by online participants in the hybrid tour.



# 02 Research Summary

eco-study tours since 2017.

A local tour company was established in FY2020. Furthermore, in order to keep the movement going in The COVID-19 pandemic, we challenged the "hybrid tour" which is a local tour and an online tour which is broadcasted live at the same time. We tried to create value unique to the

hybrid tour by combining live video from the air using a drone, and by presenting and explaining various materials using zoom screen sharing for online participants.

As a result, we were able to confirm many positive opinions about the affinity and usefulness of the hybrid tour with

ecotourism-based tours for understanding the environmental value of the region.

In the next step, we will refine the hybrid tour while being aware of the significance of the online tour that is experienced before and after the current tour, and confirm its usefulness.

## Development of a New Method for Regional Interpretive Exhibition and Education Using a Projection Mapping Model System

Susumu KAWAHARA Yu OKAMURA, Mitsuru Noda

In recent years, projection mapping model systems (PMM systems), which can project a variety of thematic maps onto models using a projector, have been introduced in museums. The images projected by the PMM system can be freely created on a PC, so it should be possible to use the system in a variety of ways. However, the current state of use in many places is that the projected contents are not updated very often, and the system is only used for one-way explanatory displays.

Therefore, we are collaborating with a manufacturer to develop a PMM system that can be used for real-time writing and projection on the models, and for many people to create and bring in their own content for projection, and we are researching new ways to use the system as an explanatory exhibition tool that can also

be used by private sector guides, and as an educational tool.

In FY2020, we tried a method of projecting and discussing thematic maps created by students in the tourism planning and design exercise of the Tourism Science Department.

Through this activity, the new PMM

system has been introduced to the "Soto Japanese Heritage Center" to be opened by Hachioji City in April 2021. In the future, through joint research with Hachioji City, we plan to share projected content that makes use of the results of education and research, and to use the system as a tool for branding Japanese heritage through on-site lectures.



## Concept and Practice of the Ota Creative Town

Yu OKAMURA



Ota Ward is a city where manufacturing that boasts world-class technology and affluent and enjoyable life overlap. In April 2017, led by universities (Tokyo Metropolitan University, Yokohama National University), tourism associations, local industries, etc., with the aim of realizing the future image of a "creative town" that fosters sustainable value for the region itself. Established Ota Creative Town Center. We are developing various projects using this as a platform. In 2020, the "Ota Open

Factory," which is held every year for a limited time, was greatly affected by the Corona disaster, such as being held online. On the other hand, it was adopted by the Japan Tourism Agency "Attractive stay content creation demonstration project for attracting customers, etc.", producing the above online content, planning and manufacturing mobile stalls for exhibition and sales, visiting factories and sites. We conducted a survey of the needs of people.

# 02 Research Summary

2-2. Regional and Urban Planning Unit

04

## Establishment of Walking Trail Projects in a Suburban Area and its Planning Theory

Yu OKAMURA

In this study, the "walking path project (= maintenance and setting of walking paths and holding of town walking events)" is a push factor created by changes in the lifestyles of the citizens who take a walk, such as health, recreation, and mobility,



and the suburbs. Based on the hypothesis that it consists of pull factors that lead to the formation of the environment expected by the local side that accepts visitors, such as recreational area development, conservation and utilization of natural and cultural resources, community formation, etc. Research (elucidation of era divisions and characteristics of each era), secondly, case studies of walking path projects in specific areas, and thirdly, planning proposals, practices, and evaluations of "living experience-based walking paths" are listed as research subjects. There is. In 2020, we collected materials on the

walking path project that the Tokyo Metropolitan Government has implemented in the past, and the city vision that integrally captures the newly developed walking path and the existing walking path associated with the construction of the housing complex in Hanno City, Saitama Prefecture. This research was carried out with the support of Grant-in-Aid for Scientific Research (C).

## Regional transformation due to "new tourism" in pottery production areas in Japan and China

Yu OKAMURA

In this study, the modernization and tourism of the kiln industry ((1) products, (2) production environment, (3) distribution / sales) was targeted at the folk kiln production areas in China and Japan (Shaanxi Province, Mashiko Town, Tochigi Prefecture). We conducted interviews with producers and curators and collected materials to analyze and consider what

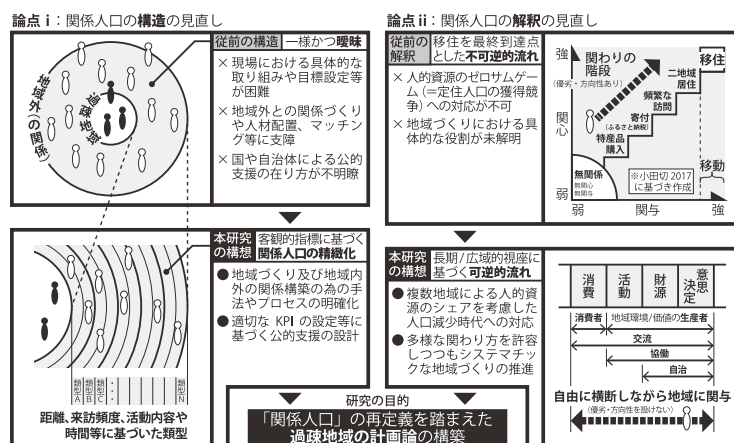
kind of impact it would have on the landscape and the community. In Mashiko Town, we researched the ideal way of tourism as a way to convey cultural value to consumers and tourists with the keyword "cultural mediator". These achievements could be published as academic conference treatises and dissertations (doctoral and master's). In

addition, due to the Corona disaster, the originally planned travel survey to China and academic exchanges with local universities were postponed. This research was carried out by utilizing the inclined research fund (young) of the Faculty of Urban Environment, Tokyo Metropolitan University.

## construction of depopulated area based on the redefinition of "nonresident populations"

Mitsuru NODA

"Nonresident Populations" has been emphasized in policy, but it has not been clearly defined. The aim of this research is Redefinition of "Nonresident Populations", and Construction of depopulated area. Specifically, in the research, 1) Hearing survey through participation in community development, and 2) Modeling of the related population will be carried out. On that basis, we will derive a planning theory for depopulated areas based on the redefinition of "Nonresident Populations".



Research framework based on the redefinition of "nonresident populations"

# 02 Research Summary

## 2-2. Regional and Urban Planning Unit

05

In FY 2020, we provided support for Community Design in the two regions described below and made external presentations. In addition, the meaning of

"Nonresident Populations", which has been interpreted in various ways, has been organized. In the next fiscal year, we plan to analyze the framework of "Nonresident

Populations" from the perspective of time-series accumulation and build a new model.

### AWAJI Long Trail PJ

Mitsuru NODA

The aim of this research is Construction of "Tourism based Rural Planning" through the planning survey and the demonstration project in Awaji Island.

In FY 2020, external activities and field surveys were mostly postponed or canceled due to the effects of COVID-19. On the other hand, we repaired the forest road and maintained a signboard prohibiting illegal dumping together with the collaborators on the island. In addition, we partially proceeded with a survey to improve the base by renovating vacant houses. In the next fiscal year, we will actively engage in external tourism events and demonstration experiments to gain knowledge for "Tourism based Rural Planning".



Field survey of trail course (Sumoto City, Hyogo Prefecture)

### Research on the utilization of real estate stock through support for community design in the mountainous area

Mitsuru NODA



Houses that require seismic diagnosis (Ino Town, Kochi Prefecture)

The aim of this research is to improve the awareness of residents and how to utilize real estate stock for "Tourism based Rural Planning" in mountainous areas where the population is declining significantly and the utilization of vacant real estate stock is stagnant.

In FY 2020, due to the influence of COVID-19, on-site surveys were severely restricted, but through on-site support

through remote work, we partially proceeded with grasping the actual situation of real estate stock in the region and surveying the intentions of owners. In the next fiscal year, we plan to promote the utilization of real estate and the accompanying survey analysis through the building earthquake resistance diagnosis business of the local government.



## A study of fishing village focusing on sense of territory in the transformation of living activities under COVID-19 condition

Mitsuru NODA

The aim of this research is to clarify the following two in the fishing village area. 1) Changes in living behavior due to COVID-19, 2) Social relationships and sense of territory of residents through comparative analysis of living behavior.

As a result, the following three points were clarified. 1) Differences in living behavior, interaction, and wearing masks of residents inside and outside the area, 2) Facilities that have been suspended or closed and their trends 3) Actual conditions of facility shutdown process and decision making. From the next fiscal year onward, we plan to continue to investigate and analyze the state of decision-making and autonomy in

rural areas while carefully grasping the status of COVID-19.

決定日 (継続日)	事項	場所	管轄/判断
2月13日	和歌山県漁港町でひとり目の感染者発生報道	—	—
2月15日	森林公園芸術花博開催 (2月15日) の開催	加太森林公園	加太観光協会
2月20日	加太桜餅祭り、中止決定	おさかな朝市前	加太観光協会
2月26日	淡嶋神社遷流し行事 (3月3日) の規模縮小開催決定	淡嶋神社	淡嶋神社
3月2日	交流センターでの会集等の利用停止 (3月1日～3月31日)	交流センター	運営自治会
3月8日	えび祭り (渡御祭) (5月16日) の中止決定	加太春日神社	加太春日神社
3月8日	梅津大橋歩道 (4月3日) の開催決定	北の浜海水浴場	京都聖蹟協
3月30日	交流センターの会集等の利用再開、注意喚起	交流センター	運営自治会
4月17日	友ヶ島の期間入島禁止 (4月18日～5月6日)	友ヶ島	和歌山市
4月18日	青少年国際交流センターの期間休館決定 (～5月11日迄)	青少年交流センター	和歌山市
4月22日	「前直を招いた移動自警要請」看板設置	北の浜海水浴場	和歌山県
4月23日	加太地区の建設会社が地区に2500枚のマスク寄付	—	—
4月24日	淡嶋神社、神社前駐車場の閉鎖 (4月29日～5月6日迄)	淡嶋神社	淡嶋神社
4月24日	淡嶋神社前商店、期間閉店 (4月29日～5月6日迄)	淡嶋神社前	全商店
4月27日	北ノ浜公園駐車場の閉鎖決定 (4月29日～5月6日迄)	北の浜公園駐車場	和歌山県 (下津港)
4月27日	深山公園トイレの期間利用禁止決定 (～5月6日迄)	深山公園トイレ	和歌山市
4月28日	新出浜駐車場の期間閉鎖決定 (4月29日～5月6日迄)	新出浜駐車場	湯浅、下津港
4月28日	加太本道止の期間閉鎖決定 (4月29日～5月6日迄)	加太本道止	湯浅、下津港
4月29日	地所南テニサーの路上駐車多数目撃 (住民より)	—	—
5月6日	淡嶋神社の再開決定 (5月7日～)	淡嶋神社	淡嶋神社
5月6日	北ノ浜公園駐車場の閉鎖期間延長 (5月15日まで延長)	北の浜公園駐車場	和歌山県 (下津港)
5月6日	新出浜駐車場の閉鎖期間延長 (5月15日まで延長)	新出浜駐車場	湯浅、下津港
5月6日	加太駐車場 (8月22日) の中止	おさかな朝市前	地元
5月12日	青少年国際交流センターの閉鎖期間未定延長決定	青少年交流センター	和歌山市
5月15日	北ノ浜公園駐車場の閉鎖期間延長決定 (5月31日まで)	北の浜公園駐車場	和歌山県 (下津港)
5月15日	友ヶ島の入島再開決定 (5月16日から)	友ヶ島	和歌山市
5月16日	新出浜駐車場の閉鎖期間延長決定 (5月31日まで延長)	新出浜駐車場	湯浅、下津港
5月16日	友ヶ島の入島再開に伴う通称 (キャンプ場) 閉鎖等	友ヶ島	和歌山市
5月27日	青少年国際交流センターの再開決定 (5月28日から)	青少年交流センター	和歌山市
5月24日	新出浜駐車場の再開	新出浜駐車場	湯浅、下津港
5月29日	北ノ浜公園運営平常管理要請 (6月1日から)	北の浜海水浴場	和歌山県 (下津港)
6月19日	葛城修験の日本遺産認定式典開催	行香堂	和歌山市

Response under COVID-19 condition (Wakayama Town, Wakayama Prefecture)

## Analysis of effects of street network structure and land use on vibrancy in local city centers

Yuki OHIRA

In recent years, many local cities are experiencing declining of their city centers along depopulation and suburbanization. This study aims to examine relationships between vibrancy and spatial configurations of streets based on the structures of street networks and land use in city centers.

We empirically investigate the relationship between vibrancy and street environment with the survey data of Tottori city center, a typical local city in Japan. As a result of the regression analysis, pedestrian vibrancy shows significant positive correlation both with

the amount of commercial floor space along the street and with that along the neighbour streets. This result suggests that an improvement of floor area of commercial facilities in directly connected streets should be an effective means to encourage activities in city centers.

## Analysis of sightseeing behavior of inbound tourists to Japan and proposal of a guide support system

Yuki OHIRA

Foreign visitors to Japan was increasing drastically before the COVID-19 pandemic. As the circumstance to welcome inbound tourists was updated with deregulation, anyone can work as an interpreter-guide without national license since 2018. Because the inbound have diversified preference on travel, guides need to handle a wide variety of requests flexibly. As such unlicensed guides may include inexperienced volunteers, some systems are

necessary to ensure a certain quality of guiding services. This study proposes a guide support system which helps interpreter-guides to plan tours. First, a significant data set for understanding behavioral patterns of inbound tourists is analyzed. The data were logged by volunteer interpreter-guides who were attending inbound tourists and it includes information about when and where they met up and break up, when,

how and where they went to, and so on. As a result, the samples are categorized based on their preference about trips, trip areas, and trip duration. Secondly, a system to predict trip areas or spots which will be preferred by tourists is developed. This system is based on collaborative filtering. As a result of the experiment for evaluating prediction accuracy of proposed system, it is clarified that the system has better accuracy and effectiveness.

### The development of human resources for implementing the tourism policy plan for sustainable tourism development

Norie HIRATA

As a premise of this research, there is a need to practice both regional economic management and regional resource management in cooperation for sustainable tourism community development. To promote tourism and town development through public-private collaboration that achieves regional revitalization in each area, with many actors such as local governments and local businesses, it was hypothesized that local governments in the

region would need human resources for tourism policy-making who know to make appropriate policy plans and measures consistent with these policies and projects. First, we extracted some of the key persons in the region involved in community development and regional resource management. Next, we grasped the career paths of key persons through interview surveys with people who practice community

development and regional resource management in these regions. We extracted the Isumi area as an example and practically developed regional education for local residents. Eventually, research is being carried out toward the proposal of an educational program for tourism policy-making practitioners. This research was supported by JSPS KAKENHI Grant-in-Aid for Young Scientists.

### The research on advanced human resource development programs for tourism management

Norie HIRATA and SHIMIZU

This research is based on the survey on the implementation status of education programs for tourism management human resources development in Japan and overseas, which has been conducted over the past three years, and after accumulating knowledge to contribute to tourism promotion and policy making, future advanced tourism human resources It plans and manages courses for working adults

and organizes their effects and issues for training. Specifically, we first conducted an online interview survey with experts in the tourism data marketing field. Based on these findings, we designed and held an educational program for "understanding how to interpret analysis results" using tourism-related data for current and future leaders of regional tourism

promotion organizations. This course will be held online depending on the spread of COVID-19 infectious diseases. In the student questionnaire at the end of the lecture, we were highly satisfied with the acquisition of data analysis methods and interpretation methods using QGIS. I was able to get suggestions for future educational program development.

### SWOT Analysis of Forest Protected Area Based Sustainable Tourism Development: A Case Study in the Lawachara National Park, Bangladesh

Hussain M.I. and Khanal B.P.

This paper explores the possibility of sustainable forest tourism development in the study area regarding the sensible usage of the resource and local resident communities. To plan and properly implement this, various managements and decision-making tools were used, including interviews of residents, visitors and the staff of the park, with the help of survey questionnaire (primary data) and secondary data acquired from Bangladesh Parjontan Corporation, conference proceedings, books, and

journals. Based upon these data the strengths, weaknesses, opportunities, and threats (SWOT) were analyzed to identify the required management strategies to improve the sustainable forest protected area tourism in the hilly area. The research findings, the well-established area forest tourism destination with a variety of natural attractions and unique culture of local people retaining ancient culture are the strengths of the area while lack of infrastructures and

fundamental facilities are significant weaknesses. To maximize the internal strengths and external opportunities and to minimize internal weaknesses and external threats on the several strategies have been suggested for the sustainable forest protected area tourism development and management. However, there is a scope for the continuous improvement of the SWOT analysis in identifying more viable options for the strategic management of sustainable tourism.



### Impact of the COVID-19 in Tourism Industry in Nepal and Policy Recommendation

Khanal B.P.

For the first time in history, almost all the domestic and international tourism destinations have restrictions for travel worldwide because of coronavirus pandemic. Coronavirus disease calls the COVID-19 pandemic is an ongoing problem in more than 210 countries in the world. The purpose of this study is to find the tourism impact of COVID-19 in Nepal and purpose recommendations for the preparation of evidence-based policy and strategies for further development of the tourism industry in Nepal. Secondary data

used in this study were obtained from the ministry of tourism in Nepal and other various web sources and primary data were collected from the online survey and collected 52 samples. They are involved in the hospitality, education & consulting, travel & tours, adventure & expedition, trekking agencies, and government officials from national tourism originations. The study highlights that the tourism contribution in Nepal's GDP (Gross Domestic Product) as a significant sector that has a linkage

with other sectors. Also, the Nepalese tourism industry is dependent on international factors and the Nepal tourism industry highly relies on foreign tourists and cancellation of the mountain climbing permits for the year 2020, affects the income of foreign currency as well as the local economy, the loss of thousands of jobs in the tourism sector and other sectors. Overall analyses suggest that building the capacity of stakeholders and public-private partnership initiatives to promote and work together to develop and manage in future tourism fields.

## Examination of the possibility of constructing risk information in tourist destinations from a huge amount of geo-tagged tweets

Yohei KURATA, Ibuki YOSHIDA

So far, many studies have been conducted that utilize social big data to derive "positive tourism information" such as popular / recommended destinations, but on the other hand, for tourists Negative information such as danger and possibility of failure at their destination can be useful

information. A large number of failure stories are posted on various SNS such as twitter. Therefore, we developed a discriminator that extracts "failure-reporting posts" from a huge amount of geo-tagged tweets on Twitter and by mapping extracted failure-reporting

tweets We have demonstrated that it is possible to systematically construct risk information in tourist destinations. In particular, we verified that this idea works well in multiple tourist destinations in Shizuoka prefecture.

## Practical Study of Virtual Tourism

Yohei KURATA, Susumu KAWAHARA

Under the pandemic COVID-19 Various tourism-related companies and facilities provide online services which provide virtual experience to potential travelers utilizing information and communication technologies such as panoramic images and real-time video streaming. we surveyed the current status and pioneering instances of such virtual tourism services, and identified future research

issues. In addition, we improved our own virtual tour creator/viewer tool called "Daredemo Guide!" That we had developed before, and used this tool to (1) to experimentally create a virtual tour in Vietnam in collaboration with the students in Kawahara Lab. (2) In addition, in cooperation with the Komaki Seminar, Aichi University, we realized a virtual town walk event in

Toyohashi City, Aichi Prefecture. (3) We held a remote workshop with Ms. Fu Sanada, an OG of our university, and her students in Techno-Academy -Aizu to create virtual tours of various parts of Fukushima Prefecture. Collaborating students: Yu EBISAWA, Tatsuyuki HAZAMA, Saki SATO

## Relationship between psychological factors related to tourism and attitudes toward the impact of tourism during and after the Covid-19 period

Taketo NAOI

Last May and June, a web questionnaire survey was conducted to examine the relationship between tourism motives and attitudes regarding the impact of tourism on the region assuming that Covid-19 had converged. The results, which showed positive relationships, were presented at the annual conference of Japan institute of

Tourism Research (JITR). Another web questionnaire survey on intention to go on domestic overnight trips was conducted last October, and generated results that attitudes toward positive impacts of tourism affected the respondents' attitudes toward going on domestic overnight trips indirectly

through ethnocentrism as well as directly. These results were reported at JITR's session on its Covid-19 project. An article based on the results of the survey last May and the review of past studies including ones of the author has been submitted for a special issue of a journal, the tourism studies. Collaborating students: Shukwa Wong

## A study on the determinants of tourist satisfaction and loyalty

Taketo NAOI

Qualitative research was conducted to understand the process of the respondents' visits to Tokyo Disneyland and to elucidate the conditions for Incomplete Planned Experiences (IPE) that occurred during their visits to positively affect their satisfaction. As a result, five

categories of reasons why they were satisfied irrespective of IPE, namely "as expected," "priorities," "satisfied merely by visiting it," "flexible tactics," and "making it up next time" were extracted. In further detail, "presuming my on-site behaviors," "presuming my satisfaction

level," "considering the time of my possible next visit," "planning what to do to achieve my goals," and "recipes to changing plans" were implied as reasons why IPE affected their satisfactions positively. Collaborating students: Hiroaki KAWADA

## Exploring the role of tourist experiences in tourism-led migration to outdoor tourism destinations

Taketo NAOI

This study attempted to understand the role of tourism experience in the tourism-led migration process, which had rarely been researched empirically, through qualitative and quantitative studies. This fiscal year, an article based on the results of the qualitative research has been accepted by an overseas peer-reviewed academic journal (Asia

Pacific Journal of Tourism Research). In the study presented in this paper, interviews with surfing-oriented migrants in a coastal municipality were conducted to elucidate the processes in which their tourism experiences had led up to the migration. The collected data were analyzed with use of the Trajectory Equifinality Model. The

results suggest that their surf trip experiences contributed to the formation of their surf-oriented lifestyles and that their subsequent migration was realized. Collaborating students: Yuki Okano

## A study on the effects of promotional videos and past visits on destination images: a comparison between a video of the urban area and that of the peripheral islands of Hong Kong

Taketo NAOI

This study aimed to clarify the effects of watching and visiting tourism promotion videos on tourist destination image. No studies had simultaneously verified the effects of these two factors on tourist destination image. A web questionnaire survey asking Japanese respondents to evaluate the image of Hong Kong as a tourist destination was conducted. The respondents were divided into three groups: a group that watched a video of

the urban area of Hong Kong, a group that watched the video of islands, and a control group who watched no videos. As a result, "island-likeness" (Cognitive Image) was positively affected by viewing the islands video, but it itself had a negative effect on the overall image. Thus, viewing the islands video negatively affected the overall image. These results implied that caution should be exercised when

transmitting tourist destination images, which are not typical of the destinations, via tourism promotion videos through SNS and so on.

Collaborating students: Shukwa Wong

## Effects of touristic elements of volunteer tourism on motives and intention to participate in them

Taketo NAOI

This study, for the first time, aimed to clarify the influence of the touristic element of volunteer tourism programs on the motives and intention to participate in them on the basis of the framework of egoistic and altruistic motives. In a web questionnaire survey, two scenarios with different strengths of touristic elements (beach cleaning in the summer and the

winter) with different strengths of tourism elements were presented to graduates and postgraduates who had never lived in Okinawa Prefecture, and then they were required to rate their motives and intention to participate on interval scales. As a result, the stronger the touristic elements was, the stronger egoistic motives of "nature experience"

and the intention to participate was. Also, the motive of "nature experience" had a significant positive influence on the intention to participate. Therefore, in promoting the participation of a wide range of young people in volunteer activities, it may be an effective means to utilize the tourism elements of activities such as "nature experience". Collaborating students: Kohta Kurosu

## Research about Risk Sharing Contracts in the Fields of Tourism and Transport

Katsuya HIHARA

Some relationships between entities in different industries, such as the relationship between airports and airlines, have complex and multifaceted structures in which conflicting relationships and cooperative relationships coexist, are very much interesting from the viewpoints such as contract theory and game theory, etc. In Japan, we have some examples in which regional airports share the risk of route revenue fluctuations with airlines. Noto-air-

port Load Factor Guarantee Mechanism (LFGM) Contract (2003-present) is one good precedent. The Ministry of Land, Infrastructure, Transport and Tourism (MLIT) is also considering risk-sharing relationship among airport and airline in deciding the allocations of Haneda Airport slots. Also in many of the concession contracts of the airport, demand fluctuation risk sharing of airport and airline is taken into consideration

(2012-) in deciding landing fee.

This study seeks to extend the analysis to a more general context. In fiscal 2018, from the framework of incomplete contract theory, analysis results are obtained about the optimal content of the risk sharing contract that shares the passenger demand fluctuation risk among the concerned parties by a simple linear payment scheme.

## Development of methods about regional tourism statistics of data fusion with enhanced resolutions

Katsuya HIHARA, SHIMIZU Tetsuo (PI), Yu OGASAWARA, OHIRA Yuki

Regional tourist destinations need to continuously acquire data on tourism phenomena and evaluations, which will lead to appropriate marketing and resource development. For that purpose, It is necessary to propose a methodology for improving tourism statistics and data with enough resolutions that are particularly

useful for narrow-area DMO measures and business planning. In this research, we specialize in total number of overnight stay data, and combine national tourism statistics, private data company stay population distribution data, Wi-Fi-packet sensor data, etc. and develop a method for estimating the total number of

overnight guests by attributes in the tourist area with the spatiotemporal resolution level as fine as possible. In pursuing this, the measures and business needs of DMO will be thoroughly identified, and the index data and estimation method Porto Folio necessary for the evaluation will be presented.

## Research about Factors for the Increase in the Number of Visitors to the Hot Spring Areas

Katsuya HIHARA, Yu OGASAWARA

Hot spring visits are major factor to tourism demand at large. But the number of accommodation users in the hot spring areas has decreased by 13 million since the bubble period. The number of accommodation facilities also decreased significantly. Various studies have been conducted about the factors causing stagnation in hot spring areas and recommendations for revitalization. Most of the researches are, however, qualitative about strategies of each hot

spring area. The quantitative researches, which investigate factors contributing to the growth of customers using open data with the possibility to compare among hot spring areas, are very limited. This research attempts a new quantitative analysis of the factors leading to the growth of bathers and guests in 85 hot-spring location municipalities nationwide that have not been analyzed sufficiently due to data constraints, by utilizing originally estimated data. In

addition to familiar factors, like access to the areas, such factors as related to the number of foreign tourists to Japan are taken into accounts. By these analyses, effective measures and factors for attracting more hot spring customers at the municipality level are expected to be clarified. Supporting researchers: MEDAI Nagi, OKAMOTO Naoyuki Collaborating students: Shohei SUZUKI, Nagi MEDAI

## Research on the present conditions of "return goods" and its characteristics in oldness and tax payment

Katsuya HIHARA, Yu OGASAWARA

The hometown tax payment system is currently at a major crossroads, such as a review of the system, due to the issue of high value returnable goods and the range of local products. On the other hand, with regard to the relationship between returnee goods and donations, which is the starting point of analysis of such situations, the research quantitatively analyzed is very limited, and it can not be said that objective research has been sufficiently

conducted. It is very important to analyze the relationship between return items and donations, in order to contribute to the discussion that makes the hometown tax payment system better. From this point of view, this research focuses on Internet sites related to hometown tax payments, which are used by many people when deciding on a donation local government for hometown tax payments, and data on the

contents of return items on those sites Collected on your own. Based on the data, we try to analyze quantitatively the relationship between return items and donations. First, it is expected that new findings will be obtained by classifying return items and analyzing the types of return items that are effective and the relationship between hometown and the amount of tax payment. Collaborating students: Atsushi Sekine, Shohei SUZUKI

## Research about private lodging service (Airbnb and so on)

Katsuya HIHARA

This research focuses on private lodging services, such as Airbnb, among sharing economy. The web-based platform economy, such as Airbnb, brought about the revolutionary changes to the world, not just in trip arranging services, but also lodging service, real estate rental business. This research studies about numerous preceeding academic literatures of the impact of Airbnb on the world from various

disciplines, from management, economics, sociology, information sciences and combine the study results in Japan. By this study, the impact of Airbnb on tourists, hosts of private lodging service, tourism industries, residents in regions, local communities are extracted and aligned, and comparative studies are executed about the methods of evalua-

tions. The study shed lights on housing space sharing business, which has been steadily on the rise before the pandemic. With all these studies combined and digested in this single study, it is expected for the new challenges facing such housing space sharing services to be outlined for the future researches. Collaborating researcher: YARA Emie

## Post-disaster communication strategies to restore image

Wu Lingling

An understanding of how best to communicate with the tourism market after a disaster event is essential for destination marketing organizations seeking to manage the misperceptions held by potential tourists. Although the existing studies have summarized the post-disaster communica-

tion strategies that have been implemented in the past experience, research about tourist's response to these strategies appears to be scarce in the academic domain. This study adopted an experimental methodology to investigate tourist's response to disaster recovery

messages that are commonly used by destination marketing organizations. The results revealed the effectiveness of different messages in encouraging tourists to visit a disaster-affected destination.

## Analysis of post-disaster population movement by using mobile spatial statistics

Wu Lingling

This research attempts to analyze population movement by using mobile spatial statistics. In order to extract behavior patterns from the aggregated data, four different Latent Variable Analysis (LVA) methods were adopted in this study - Independent Component Analysis (including FastICA and Spatial colored ICA),

Non-negative Matrix Factorization (NMF), and Sparse Principal Component Analysis (SPCA) to analyze mobile statistics data of the disaster-affected area. The results indicate that each LVA methods has its pros and cons in extracting behavior patterns from the aggregated population. The results suggested that using multiple

LVA methods and finding out the common patterns would be a robust way to understand and explain population dynamics. Finally, the study shows that using mobile spatial statistics would be a feasible and practical option to estimate the dynamic change of human population after the occurrence of disasters.



## Classifying in patterns of seasonality of tourism demand with uncertainty

Yu OGASAWARA

Patterns of seasonality of tourism demand generally change through several years. Many kinds of measurements of seasonality of tourism demand have been suggested in tourism studies. However, these measurements do not include information of fluctuation of seasonality. Graphical analysis has been employed in tourism studies when seeing patterns of seasonality including information of fluctuation,

nevertheless graphical analysis does not allow to deal with a number of individual data (e.g. regions, facilities and etc.). Hence, it is difficult to classify in patterns of seasonality with information of changing or uncertainty of seasonality to many individuals' data. This study provides a new measurement of seasonality of tourism demand with uncertainty of which data is presented by interval. It is

named "interval-valued seasonality index". We calculate the interval-valued seasonality index by number of hotel guest in Japan in 2011-2019 by prefecture. In addition, applying Ward's method for interval-valued data suggested by Ogasawara and Kon (2021), we present patterns of seasonality and its characteristics in Japan.

## Resource integration of service providers and utilization of service scripts in value co-creation

Makiko ASO

In this study, I reexamine the resource integration of value creation in the service encounter and discuss the importance of social context in value co-creation. This study points out that service providers use

service scripts to integrate and record various resources, enabling them to enhance the quality of value co-creation when customers reuse services. The findings from an observation and

interview study show how the store manager, who is a hairdresser, memorizes the customer interaction process, what is recorded in the service script, and how the recorded service script is reused.

## Research on Tourism Education and Regional Revitalization by Linking Programming Education and Regional Resources

Makiko ASO

In FY2020, with a research grant from the Japan Remote Islands Center, we conducted a research survey targeting the Koniya Elementary School in Amami Oshima. In this study, I conducted a questionnaire survey of elementary school students and their parents in a unit in which elementary

school students made commercials using local resources, such as "discovering the charm of the town," in programming classes. The results suggest that the use of local resources in the theme enhances communication, and that this effect can

be expected to increase the involvement of parents in education. In addition, the class design of the teachers in charge of the subject was presented orally as a study of the service design process at a service conference.

## A study of the continuity of urban development and its value in the area around Shinagawa-juku

Makiko ASO

This study focuses on the linkage between travelers and the town, and examines the process of co-creation of town values through the knowledge and skills of local

residents' service encounters that affect the formation of travelers' images of the town. By examining the structure of this process, we aim to show one aspect of

service ecosystem research and clarify the continuity of Shinagawa-juku's urban development through the practice of its activities.

### Toshio KIKUCHI

#### Presentation

Kikuchi, T. Some possibilities of the integration with the Southeast Asia and Oceania in regional geographical studies. Annual Meeting of the Association of Japanese Geographers, Online Meeting, November 2016, Tokyo, Japan.

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- Kikuchi, T. 2021. An exhortation toward regional geography of tourism. *The International Journal of Tourism Science*, 14. 9-16.
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- Kikuchi, T. 2021. Some possibilities of the integration with the Southeast Asia and Oceania in regional geographical studies. *New Geography*, 69, 14-22.

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### Shinya NUMATA

#### Presentation

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Hossain, M. I., S. Numata. Stakeholders' perceptions regarding protected area land use management (LUM) in Rema-Kalenge Wildlife Sanctuary, Bangladesh: a SWOT-AHP analysis. The 30th Annual Meeting of the Japan Society of Tropical Ecology (Online) Nov. 2020.

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- Hassan, N., Hashim, M., Shinya NUMATA Tarmidi, Z., 2020, Upscaling Remote Estimation on Relative Abundance of Chengal Trees in Tropical Rainforest using Modified Canopy Fractional Cover (mCFC) Approach, *IOP Conference Series: Earth and Environmental Science* 540:012007.
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### Takeshi OSAWA

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### Etsuro TAKAGI

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### Taiyo YAGASAKI

#### Presentation

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Iizuka, R., Yagasaki, T. and Kikuchi, T. 2021. The Restructuring and Expansion of Locality through Development of Beer Tourism in the Arrondissement of Dunkirk, France. The

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**Tetsuo SHIMIZU****Presentation**

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**Susumu KAWAHARA****Presentation**

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● Marina OZAWA, Susumu KAWAHARA, 2020, "A study on the requirements for holding the shopping street as a Unique Venue of MICE", *Summaries of technical papers of annual meeting (selected summary)*, 2020.09, pp.811-814, Architectural Institute of Japan (in Japanese)

● Masuo Kosuke, Nagamachi Shiho, Kimura Daigo, Inomoto Ryouyusuke, Kuroda Yuika, Kawahara Susumu, Izumi Hideaki, Fukunaga Hiromi "Realization of chain renovation projects in collaboration with tourism town planning at Nagato Yumoto Onsen", *Summaries of design works of annual meeting*, 2020.09, pp.376-377, Architectural Institute of Japan (in Japanese)

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**Articles, Books • Reports**

● Norie HIRATA, Susumu KAWAHARA, 2020, "CAN BLUE FLAG AWARD CONTRIBUTE TO DEVELOP SUSTAINABLE TOURISM DESTINATIONS? - A case study of first certified two destinations -", *The Architectural Institute of Japan Journal of Technology and Design*, Vol. 26, No.63, 719-724, Jun., 2020, DOI <https://doi.org/10.3130/aijt.26.719>, (in Japanese)

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**Mitsuru NODA****Presentation**

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**Yuki OHIRA****Presentation**

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#### Norie HIRATA

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#### Yohei KURATA

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##### Presentation

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Tatsunori Hara, Ho Quang Bach, Ryo Miyamoto, Takashi Aoike, Jun Ota, Yohei KURATA 2020. Support of Tour Planning Incorporating Town Walk by Presenting Information on Walking Around Major Tourist Attractions. *Journal of Tourism and Information*, 16(1): pp.33-48 (in Japanese)

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## Wu Lingling

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## Yu OGASAWARA

### Presentation

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### Articles,Books・Reports

How to use regression models for different types of values? (Special edition: statistical methods in human growth and development research), Yuki Soma, Yu OGASAWARA, Tomohiro Okura, Children and Human Growth and Development

Research, 18(3), 173-178, 2020. (in Japanese)  
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## Makiko ASO

### Presentation

Aso,M. Spinning and connecting the history of Shinagawa-shyuku in a Post town:The role and Practice of Community development activities in Shinagawa-shyuku,The 9th National Conference of the Association of Design about Strategy for Zone Industry and Zone Brand,In online,September 2020.  
Aso,M. Examining the Possibility of Enhancing Value Creation through "Expanded Encounters- From the perspective of customizing service processes-, Japan Marketing Academy Conference2020,In online,October 2020.  
Aso,M. Service Design and Design Process for Programming Classes in Elementary School,9th Annual Japanese Conference of Society for Serviceologyof the Association of Society for serviceology,In online,March 2021.

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Aso,M. Resource integration of service providers and utilization of service scripts in value co-creation,Japan Marketing Review Vol.2 (1),pp.47-52.

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Research Proceedings of Japan Society for Tourism Studies 2020,pp.92-93.  
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Aso,M. Service Design and Design Process for Programming Classes in Elementary School, Research Proceedings of Society for serviceology Conference 9th,pp182-188.

# 07 Awards and Honors



## 7-1. Environmental Management Unit

name	title
Toshio KIKUCHI	Achievement Award from the Association of Japanese Geographers, April 2020.
Etsuro TAKAGI	Leading Scientist of the Faculty of Urban Environmental Sciences, Tokyo Metropolitan University, January 2021

## 7-2. Regional and Urban Planning Unit

name	title
Susumu KAWAHARA	GOOD DESIGN AWARD 2020 Winner, Award-winning item: Regeneration of hot springs area [Nagato Yumoto Onsen sightseeing town development project], Kawahara participated in the project as a designer, October 2020, <a href="https://www.g-mark.org/award/describe/51042">https://www.g-mark.org/award/describe/51042</a>

## 7-3. Behavioral and Management Sciences Unit

name	title
Makiko ASO	Japan Marketing Academy Oral Session October 2020 / Best Oral Paper Award





**Tokyo Metropolitan University**  
**Graduate School of Urban Environmental Sciences**  
**Department of Tourism Science**

**2020 ANNUAL REPORT**

<http://www.comp.tmu.ac.jp/tourism/>

Edit and publish  
2021.00.00

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