

History

The predecessor of the Department of Urban System Science was the Urban System Research Group founded as an interdisciplinary joint research group for urban systems at Tokyo Metropolitan University at the beginning of 1960's. The Urban Community Research Center was established in 1977, and, in 1994, the Graduate School of Urban Sciences was founded as the first graduate school for interdisciplinary research on urban systems in Japan. In 2006, the graduate school was reorganized into its current form. The achievements of research and education over its almost 50-year history have been published in the Urban System Research Library and Urban Sciences Library.

Admission Policy

Students the Department of Urban System Science in interested in

1. Individuals in possession of a broad range of theories, knowledge, and techniques related to the urban sciences;
2. Individuals who have extensive knowledge in specific fields associated with urban systems and the ability to conduct research in those fields;
3. Individuals with a solid sense of humanity, who are social and cooperative, and who have a strong moral compass;
4. Individuals who have a broad perspective, who think internationality and who have proficiency in language;
5. Individuals who are able to flexibly implement new technologies and concepts; and
6. Individuals who have practical ability in finding comprehensive solutions to urban problems.

The department evaluates the above through oral interview conducted as a part of the entrance examination.

Characteristics of the Curriculum

Students come to the graduate school with a broad range of specialties and experience from universities around the nation and around the globe. The Department of Urban System Science provides this diverse student population lectures and practical experience in a number of academic areas. The majority of classes are small-group lectures of from three to ten students. Saturday classes are also offered to accommodate working adults. The department has a multidisciplinary research support system that features Urban Science Seminars, a unique program in which all teachers participate to provide instruction to students enrolled in the master's and doctoral programs. Students in the master's program have the opportunity to participate in 5 seminars, and students in doctoral program have the opportunity to participate in 4 seminars. Students are able to acquire degrees in Urban Science, which is the specialty of this department, and are also able to select Engineering or Science depending on their individual specialty.

Graduate Careers

Tokyo Metropolitan Government/ Yamagata Prefectural Government/ Shibuya Ward Office/ Setagaya Ward Office/ Hachioji City Office/ Yokohama City Office/ Takasaki City Office/ Kawasaki City Office/ Urban Renaissance Agency (UR)/ Mitsubishi UFJ Trust and Banking Corporation/JR-East/ Taisei Corporation/ Obayashi Corporation/ ITEC Inc./ Yamaha Corporation/ Nihon Sekkei, Inc./ Misawa Homes Co., Ltd./ Daiwa House Industry Co., Ltd./ Toto Bath Create Ltd./ Yachiyo Engineering Co., Ltd./ Qunetto Japan Co., Ltd. / Fujiki Komuten Co., Ltd./ Mizuho Investors Securities Co., Ltd./ Sunric Co., Ltd./ Diamond City Co., Ltd./ Japan Airlines/ Other



| Master's Programs | Lectures/ Practical Experience | Multidisciplinary Research Support System |
|-------------------|---|--|
| | Urban Space Planning Urban Space Analysis Urban Transportation Planning Architectural Planning of Urban Facilities Urban Environmental Economics Urban Institutions Urban Sociology | Announcement of the theme (November) |
| Doctoral Programs | Health of Urban Residents Regional Facility Planning Municipal Autonomy and Administrations Urban Economics Urban Natural Environment Theory Urban Information Management Urban Social Processes Urban Space Theory Urban Housing Theory Urban Lifestyle Theory Urban Community Research Urban Social Survey Methods Urban Community Theory Disaster Research Disaster Prevention planning, etc. | Interim Presentation (April) Interim Presentation (October) Oral Examination (January) Final Presentation (January) |
| | | Announcement of the theme (May) |
| | | Interim Presentation (May) |
| | | Interim Presentation (May) Pre-final Presentation (October) Thesis Screening Final Presentation |



TOKYO METROPOLITAN UNIVERSITY

首都大学東京

- Inquiries about entrance examinations:
Dept. of Academic Affairs, Graduate School of Urban Environmental Sciences,
Tokyo Metropolitan University (Minai-Osawa Campus Building No.9, 2F)
TEL: 042-677-1111 (Main) (Ext. 4021)
Open: Monday-Friday 9:00AM - 12:30AM/ 1:30PM - 5:00PM
- Other inquiries:
Office of Administration, Department of Urban System Science (Minami-Osawa
Campus Building No.9, 5F)
TEL: 0426-77-1111 (Ext. 4271)
E-mail: usswww@center.tmu.ac.jp

Tokyo Metropolitan University

Graduate School of Urban Environmental Sciences Department of Urban System Science

首都大学東京 大学院都市環境科学研究科 都市システム科学域



Department Overview

Urban growth progressed rapidly in the 20th century. Now, 50% of the world's population and 80% of Japan's live in cities. Meanwhile, Japan's decreasing birthrate has led to rapidly aging urban populations and aggressive changes in society. More than ever, it is important to promote urban development that prioritizes the utilization of stock, disaster preparedness, and sustainability, and the application of highly advanced information technology. The Department of Urban System Science focuses on comprehensive research on issues that modern cities face.

Capacity

Master's Program: 15 students
Doctoral Program: 5 students

Entrance Examinations

The entrance examination for university students and working adults is scheduled in summer (August).

The entrance examination for students from abroad is scheduled in winter (February). If additional seats are available following the summer examination, a winter examination may be scheduled for university students and working adults. Those who complete undergraduate programs at Tokyo Metropolitan University are eligible to apply for a waiver for the written examination.

Message from the Dean

Fumiko Ito
Chairperson, Department of Urban System Science

While Japan's population continues to decrease, cities continue to grow. Ninety percent of Japan's population is currently living in urban areas. Among these are rapidly increasing areas of high population density, or densely-inhabited districts (DID), where 2/3 of the nation's population lives. People are social animals, and living together in communities is a human characteristic. This means that the growth of urban areas is an inevitability of society. Indeed, the creation and growth of urban areas is a subject of intense academic inquiry, and a topic that I personally find both extremely important and exhilarating.

When we consider what a city is, we can imagine a large platter on which people live, work, interact and move about. The design of the platter not only influences the movement of people, but it is also influenced in turn by the movement and thoughts of the people existing on it. There are many issues that we need to address as we move into the future, issues such as urban development that responds to aging society, with a focus on the utilization of stock, disaster preparedness, and sustainability. We also need to consider desirable development that takes into account the Olympics scheduled to be held in Tokyo six years from now.

The Department of Urban System Science supports research on cities, the attractive and inevitable focus in our search for answers. I hope that students interested in finding solutions to the challenges of urban growth will join us in the exciting research that takes place in our department.

<http://www.ues.tmu.ac.jp/cus/>

□ Faculty (2014.4.1)

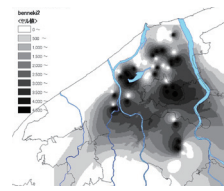


Fumiko Ito

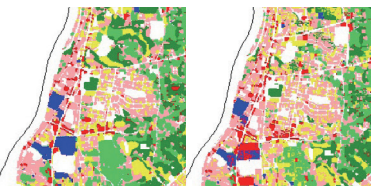
Professor/ Doctor of Engineering
Economic valuation/ Analysis of cities and communities
Research on economic valuation and optimization for public investment, social capital, and in city and community environments/ Research on demand and supply of real estate (housing)

FY2014 Department
Chairperson

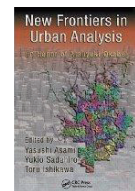
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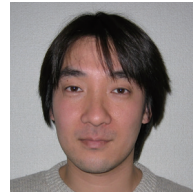
Benefit evaluation for flood control project utilizing the Hedonic Evaluation Approach



Prediction of change in land use utilizing the neural network model



New Frontiers in Urban Analysis (Co-author)



Shin Aiba

Associate Professor/ Doctor of Engineering
Urban development theory/ Citizen participation theory
Urban planning & design/ Urban development based on citizen participation and cooperation/ Workshop methods/ Urban development in Asia/ NPO/NGO theory

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Development of citizen participation methods for urban development



Research on urban development in Asia



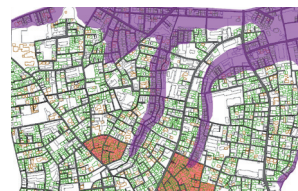
Resident-oriented Urban Planning (Co-author)



Taro Ichiko

Associate Professor/ Doctor of Urban Science
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Development of disaster vulnerability assessment



Urban development based on disaster preparedness and reconstruction (Evacuation experiment using bamboo shelters)



Development and Restoration of Disaster Areas (Co-author)

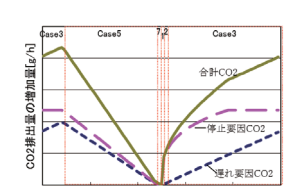


Hiroyuki Oneyama

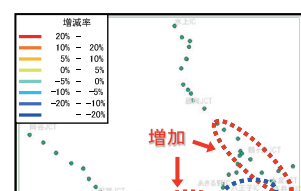
Professor/ Doctor of Engineering
Traffic engineering/ Urban engineering/ Traffic environments
Observation, estimation, and prediction of traffic flow and behaviors/ Urban traffic and analysis of the relation between traffic congestion and environmental load/ Environmentally-friendly urban traffic systems

(Also teaches in the Department of Civil & Environmental Engineering)

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Research on traffic control methods for the reduction of environmental load



Policy assessment & analysis utilizing traffic flow simulations



Traffic Congestion - Complete explanation (Co-author)



Satoru Kato

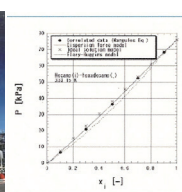
Professor/ Doctor of Engineering
Urban information/ Chemical engineering
Web solution market formation/ Environmental process evaluation/ Establishment of food safety databases

(Also teaches in the Department of Applied Chemistry)

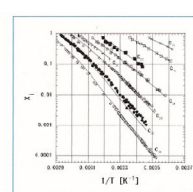
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Chemical equipment design



High-precision phase equilibrium estimation



Mathematics for physical chemistry and chemical engineering (Co-author)



Kenji Takemiya

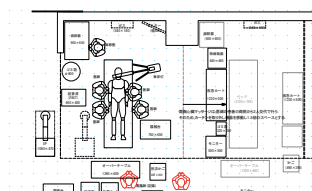
Professor/ Doctor of Engineering
Research on architectural planning & environmental behaviors
Medical care facility planning/ Support for disabled facility planning/ Planning/ Support for community facility planning/ Universal design for public facilities

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Palliative care ward planning



Research on medical care facilities



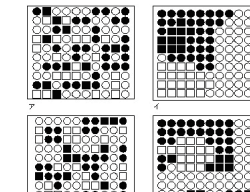
Environmental Design for Hospice & Palliative Care (Co-author)



Hidenori Tamagawa

Professor/ Doctor of Engineering
Urban & regional analysis/ Urban & regional planning
Methodological research on points of contact between urban analytics and planning/ Analytical research on urban land use patterns/ Basic research on urban analysis models/ Applied research on geographical information systems (GIS)

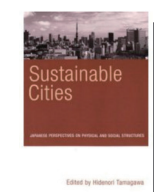
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Analysis of urban land use patterns



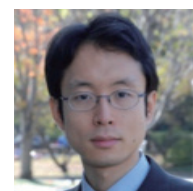
Reconsidering the Compact City Concept (Co-author)



Sustainable Cities: Japanese Perspectives on Physical and Social Structures



Nature and Future of Cities (Co-author)



Motoki Nagano

Associate Professor/ M.A. (Political Science)
Urban government administration/ Local government administration/ Local governance/ Administrative evaluation
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**Administrative evaluation through public participation
An example: Policy Promotion Council in Wako City, Saitama Prefecture**



Citizen's White Paper on Local Assembly Reforms (Co-author)



New Public Commons and Sites of Citizen's Autonomy (Co-author)



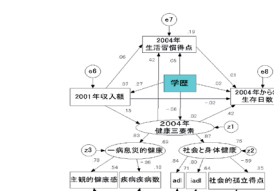
Science of Local Partnerships: Managing Community-based Coalitions and Projects (Co-author)



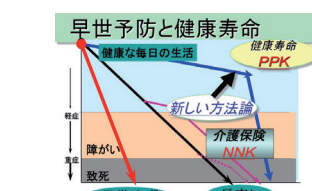
Tanji Hoshi

Professor/ Doctor of Medicine
Public health/ Health sciences/ Policy making theory
Research on health and the process of creating policies and plans to reduce disparity

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Determinants of elderly life in cities



Early prevention & healthy life expectancy



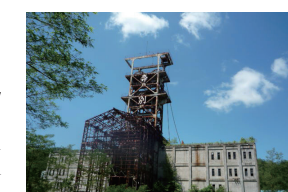
Future Health and Welfare Administration (Co-author)



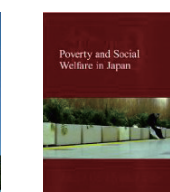
Kahoruko Yamamoto

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Urban sociology/ Regional and Community Studies / Migration Study/ Social research
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Field work study in the former coal mining areas of Hokkaido



Poverty and Social Welfare in Japan (Co-author)



Kotobuki-cho in Yokohama & Migrants