



Interview with Professors 2

Executive Director, Vice-President Professor Dr. Fumihiko Nakamura



TUE@YNU is doing researches on issues in the field of urban transport, from empirical points of view, based on the fundamental techniques in traffic engineering and urban transport planning, supervised by professors. Main activities involve investigation of urban transport problems happening now or in near future from engineering points of view as well as clarification of applicability of experiences observed in good practice cases all over Japan and in the world with in-depth surveys. We expect that our research activities will contribute to realization of transport systems which are friendly to environment and human that could support future cities. Collaborative researches with the Ministries and private companies are also important parts of the activities in the sense that our research work be connected with real world. We would like to keep our style in which we can share the pleasure of the researches and contribution to societies.

Associate Professor Dr. Shinji Tanaka



TUE@YNU conducts researches to solve transportation problems such as accident and congestion, and to realize comfortable and eco-friendly society. It is necessary to understand transportation phenomena properly and to make plans, designs and operations that deal with the transportation system in the urban framework appropriately. We expect students to acquire both transportation engineering sense and urban planning mind through various academic activities at TUE. We are waiting for your challenge and looking forward to working with you.

Associate Professor Dr. Ryo Ariyoshi



We value empirical approach and points of view in our education and research activities with a strong attention to the relationship between academics and real society. We have aggressively carried on several R&D projects collaborated with companies and governments aiming to achieve smart and inclusive urban transportation systems. Join us and act together for better city.

Assistant Professor Dr. Shino Miura



TUE has global research fields. We aim to solve social and environmental problems of each city by improving transportation issues. Reflecting recent demand for the fundamental restructuring of current city forms toward 'Green' and 'Lively' ones, our research projects are developing human-oriented mobility design and urban planning process. Cross-sectoral approach We are welcoming you and looking forward to sharing idea with you.



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What's Next !!

Public Sector	[National Government] Ministry of Land Infrastructure and Transport, National Police Agency [Local Government] Tokyo Metropolitan, Prefectures : Kanagawa, Saitama, Chiba Cities : Yokohama, Kawasaki, Sendai Japan International Cooperation Agency (JICA)
Think tank / Consultant	The Institute of Behavioral Sciences(IFS), Mitsubishi Research Institute, Inc.(MRI), The Japan Research Institute, Ltd. Group, Pacific Consultants Co., Ltd., Public Planning and Policy Studies, Inc., Japan Management Association Research Institute, Tonichi Engineering Consultants, Inc., Creative Research And Planning Co., Ltd.
Corporation	Central Nippon Expressway Co., Ltd., Metropolitan Expressway Co., Ltd., All Nippon Airways Co., Ltd., East Japan Railway Company, Tokyu Corporation, Odakyu Electric Railway Co., Ltd., Nippon Telegraph and Telephone (NTT)
University	Company, Matsushita Electric Industrial Co., Ltd.
Higher Education	Moratuwa University (Sri Lanka) King Mongkut Institute of Technology (Thailand) Yokohama National University graduate program

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TRANSPORTATION AND URBAN ENGINEERING STUDY UNIT

YOKOHAMA NATIONAL UNIVERSITY

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About us

Transportation and Urban Engineering Study Unit [Nakamura Lab. and Tanaka Lab.] (TUE@YNU), one of the five Study Units of Civil Engineering group in YNU, has its unique characteristics. Unlike the other civil engineering areas, which mainly focus on principles of mechanics, transportation laboratory provides coursework and researches on various urban transportation issues and problems focusing on engineering, economic and social aspects.

TUE@YNU activities include student independent research work, group discussion, specific data collection and analysis. Besides the above mentioned activities, we cooperate in social experiments and various investigations on urban transportation and traffic problems conducted in many cities. In addition, the case studies on the urban transportation policy and planning good practices in foreign countries are also carried out.



Moreover, it is a study unit which organizes various activities such as workshop, seminars, the combination seminars with other universities, and study tours in various domestic as well as foreign places frequently.



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Major Research Areas

Transportation and people are mostly interacted and inseparable. Our laboratory conducts research on various areas such as; **movements of person and goods, urban transportation modes of automobile, bus, and bicycle, etc., and urban transportation facilities of road, rail, and terminals.**

The research, regarding transportation problems, in our laboratory is dealt under the point of view of **Traffic Engineering and Urban Transportation Planning**. The main theme considered in system planning is **“easy use of the system to all”**.

Recent research topics done by graduate students are listed below.

Recent research topics ;

- A Study on Planning Process for Bus Rapid Transit System
- A Study on Enhancing Bus Service Planning and Operation through Better Utilization of Dynamic Data
- Feasibility study on Demand Responsive Transport systems (DRTs) considering trip reservation systems
- Measuring of Levels of Service on Multi-Lane Expressway by Using Platoon Mechanism
- A Study on Effects of Vehicle Type on Urban Road Traffic Characteristics
- Evaluation of the Car Sharing in Commuter Railway Station Areas Based on Discrete Choice Models



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Interview with Students

Hanako Kaminokado
D.Eng 3rd year

Research Topic
“Role and potential of bicycle sharing system”



Q. What is your research area ?

A. Bicycle is one of the important transportation in city. In late years, bicycle attracts attention since it is good for environment and health. “Bicycle sharing systems” are realized in some cities. In Japan, the development of the bicycle sharing system using the independent technique is pushed forward. Now I am doing the research on the introduction process to make use of a bicycle sharing system in a city in order to clarify the role and the effect of the system.

Pattamaporn Wongwiriya
D.Eng 2nd year

Research Topic
“Paratransit in developing countries”



Q. Why did you choose YNU ?

A. According to my previous works as an urban planner and a lecturer, I would like to gain expert knowledge and the ability that would allow me to become a lecturer with highly specific knowledge and expertise in the field of Transportation Planning. So it is a great opportunity for me to study at the Transportation and Urban Engineering Laboratory in YNU for pursuing my dreams and ambitions with the outstanding research environment.

Q. What is your research ?

A. My research is related to paratransit in developing countries. Specially, Songtaew or a modified pick-up truck, operates as a main public transport mode in many medium-sized cities of Thailand especially in Khon Kaen city which has faced treats to its survival in public transport situation.