TOHOKU INSTITUTE OF TECHNOLOGY

建築学科／Department of Architecture

教員紹介／Teaching Staff

職位／Title	氏名／Name	学位／Education	研究内容／Research
計画・設計／Planning・design			
Professor	ARAI Nobuyuki	Doctor of Philosophy	・A study on refurbishment by tenants as the management method of public rental housing stock. ・A study on housing support on private rental housing for dwelling distress household.
Professor	ISHII Satoshi	Doctor of Engineering	Main research theme is architectural design and planning of facilities or living environment for the elderly people, especially who need special support or care, or people with dementia. In the aging society, it is getting more and more important to keep quality of the life high until the end of life. Considering the current situation, arranging appropriate physical/architectural and social environment is being much more important. Main topic of research and planning: nursing home for the elderly, group home for people with dementia, special service housing for the elderly, housing and environment for the elderly in Scandinavian countries especially in Finland, community care service and facilities,design and welfare of Finland
Associate Professor	FUWA Masahito	Doctor of Engineering	Main research theme is indigenous to environmental design which make good use of regional planning to next generation. Especially, focused on the town planning which the utilization of the historical environment and the cultural landscape play a huge part. Also, keep working on rediscovering the regional resources. Alongside the research, continuously evaluating the landscape conservation and the landscape planning of the farming area. As part of the research, will go to each place of the traditional village, and will keep a record of their present conditions.
歴史・意匠／History・design			
Professor	NAKAMURA Takumi	Doctor of Engineering	Historical study of Japanese architecture, such as vernacular houses, Shrine and Buddhist temple buildings and tea ceremony houses, especially from a viewpoint of the analysis of traditional materials and craftsmanship. There are various methods of historical study, sites survey of historic buildings, documentation of traditional materials and craftsmanship, and survey of old construction documents. By these activities, evaluation of historical value as a cultural heritage is also my target.
Professor	FUKUYA Shoko	Master of Engineering	Study of design associated with surroundings of 21st century.
Associate Professor	SAITO Ryutaro	Doctor of Engineering	We are engaged in research and practical activities in architectural planning and design. In particular, our research theme is a practical study that can be applied to architectural design in the future, based on planning studies of welfare and living space, and considerations based on the interpretation of the legal system.
Associate Professor	NISHIKORI Maya	Master of Fine Arts	In our laboratory, we will study on practical architecture and interior design with thinking about the sensations derived from the body, the sense of space between people, and the relationships. Through open architectural design method that integrates the knowledge of experts in each field, we will develop designs that involve research and practice on people's “ibasho” and spaces in the community and society.
構造／Construction			
Professor	XUE Songtao	Doctor of Engineering	Research field is development of structural health monitoring system which is expected to have enormous market in the future. Such monitoring system can hourly understand the present health condition of the structure, and this topic synthesizes structural engineering, earthquake engineering, and the life analysis, etc.
Professor	FUNAKI Naoki	Doctor of Engineering	I have been studying the newly application of base isolation and vibration response control system which are able to improve seismic performance of buildings. Recently, I also proposed a new base isolation system suitable for masonry houses for earthquake disaster mitigation in developing countries of seismic area.
Professor	HORI Norio	Doctor of Engineering	Main study theme is earthquake resisting design by evaluating damaging properties of ground motions, and development of effective method to control response and damage of buildings. Damaging properties of ground motions are estimated as input energy to structures. And seismic response behavior of buildings can be estimated as process of dissipating input energy. By the energy response concept, damage controlled buildings can be designed considering damaging properties of ground motions.
Associate Professor	CAO Miao	Doctor of Engineering	I research the new convergence technologies emerging from the collaboration between architecture and ICT technology. I want to implement technologies that lead to the change in the building industry by incorporating ICT technology, such as IOT and AI, which has been developing rapidly in recent years.
Lecturer	HATANAKA Tomoyuki	Doctor of Engineering	Research on structural characteristics of wooden house and RC buildings and vibration control systems that can maintain the functionality of buildings. I also research Post-Installed Anchor which provides stable performance under severe conditions. I am tackling various issues to ensure safe and secure living after earthquakes.
材料・生産／Material Production			
Professor	ARIKAWA Satoshi	Doctor of Engineering	Main research fields are building materials and finishing, and housing production system. I've researched on the technical standards for various measures, e.g. Act on the Promotion of Dissemination of Long-life Quality Housing, Construction Materials Recycling Law, in NILIM in Tsukuba. The recent research projects that I participated in are as follows: ・Development of Technologies and Measures for Building Efficiency Assessment Aimed at Construction of a Sustainable Society（fiscal 2004-2006） ・Development of Planning and Management Technologies for the ultra-long-life Houses（fiscal 2008-2010）
Professor	KIKUTA Takatsune	Doctor of Engineering	Research on FRCC and ultra-high insulation cementitious composites is being carried out for the purpose of improving the performance of concrete materials. In particular, we are studying cementitious materials using new materials such as carbon nanotubes and aerogels.

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環境・設備／Environment / equipment			
Professor	KAGIYA Koji	Doctor of Engineering	From the perspective of the environment and disaster prevention, I am conducting research to build new relationships between buildings, cities, devices and information. I am trying to think outside the box and supporting the idea with technical possibilities, and propose ways to make our daily lives safer and more fulfilling.
Professor	XU Lei	Doctor of Engineering	In collaboration with students in my laboratory, we are focusing on environmental design and strategies for building energy savings. Currently, we are exploring the practical applications of Industry Foundation Classes（IFC）in mechanical, electrical, and plumbing（MEP）design, aiming to integrate architectural design seamlessly with MEP systems. We are striving to achieve a balance between knowledge in architectural studies and proficiency in BIM technology. Through this effort, we are working hard to enhance the students' technical skills in MEP design.
Associate Professor	OISHI Hiroshi	Doctor of Engineering	Research subject: Studies on Characteristics of Human Behavior and Psychological Evaluation in Architectural Environment Our research subject is environmental psychology and physiology that deals with characteristics of human behavior and psychological evaluation in the architectural environment. In these researches, we aim to clarify the evaluation of architectural environment based on the perspective of human behavior and psychological reaction in the environment. We are conducting research using survey methods for people, such as questionnaire surveys and behavioral observation surveys. There are various environmental elements in architecture. So, we are considering the relationship between the characteristics of the environmental elements and the human behavior in the built environment.
学科教員／Affiliation			
Research Associate	SASAMOTO Takeshi	Bachelor of Engineering	Main research field is housing planning. I am studying the relationship between Floor plan and Style of living and Dwelling consciousness