Divisino of Environmental Design		Research field	Urban Planning and Planning support system	Lab. ID ED07	
Laboratory web site <u>https://kanazawa-ub.jimdofree.com/</u>					
Research subjects					
Urban and regional planning					
Urban planning and design including historical restoration, disaster prevention and so on.					
Planning support system for public participation on the Internet					
Comparative study of Japan-China urban planning systems					
Comparative study of Capari China drban planning systems					
Master/Doctor course: Education policy, curriculum, typical activity in the laboratory					
Regional municipalities in Japan are endeavoring to improve public involvement in decision-making processes for					
urban planning and design, such as urban master plans, district plans, and townscape design (Machizukuri). To					
support public participation, we are conducting research into developing planning support systems using WEBGIS					
and VR technology on the Internet environment.					
allocation pr	pian based on analysis of	taken into ac	require land use demand supply and competition ar	ployed in the	
anocation processes of land use have taken into account land use demand, supply and competition, and a new					
We are conducting land use simulations using CA and MAS based on the behaviors of different autonomous agents					
to represent a "bottom-up" decision-making process. As well, by introducing ecological networks into urban and					
regional planning, we are developing a new type of planning support system for environmental conservation.					
Daily life in t	he laboratory, etc.				
We are cond	ucting research from mult	:i−approach, s	such as field survery, spatial anaysis, making design	and planning	
proposals, pr	oject evaluation. For thos	se works, we	try to find the solutions via Geovisualization and G	eosimulation.	
We are organ	nizing international worksh	lop every yea	ir and active in international communication.		
Message or	comments by the laborato	orv faculty sta	affs		
Students wh	o are interesting in GIS ar	nd VR techbr	pology are welcome to join our lab from all of the w	orld	
Recent Master theses in these 3 years (+ more if appropriate)					
vear.month	Thesis title (including Eng	lish translatio	on of Japanese thesis title)		
2021.9	Visualization of Cleaning Map of Sweeping Robot Using UWB technology in Smart Home				
A Comparative Study on The Permits Management in Land Use Management System Am			ong Japan,		
2021.9 The Netherlands and Unite		ted Kingdom		0	
0001.0	Improving disaster prever	ntion in histor	rical high-density urban areas from the viewpoint of	f fire spread	
2021.3	risk- Case study of Kanazawa City-				
0001.0	Development of A Plan Supporting System for Assessment of New Urban District Plan		stem for Assessment of New Urban District Plan to	wards Low-	
2021.3	carbon City				
0001.0	Improving disaster prever	ntion in histor	ical high-density urban areas from the viewpoint of	f fire spread	
2021.3	risk- Case study of Kanazawa City-				
0001.0	Development of A Plan S	upporting Sv	stem for Assessment of New Urban District Plan to	wards Low-	
2021.3	carbon City				
2021.3	Improving disaster prever	ntion in histor	ical high-density urban areas from the viewpoint of	f fire spread	
	risk- Case study of Kanazawa City-				
2021.3	Development of A Plan S	upporting Sy	stem for Assessment of New Urban District Plan to	wards Low-	
	carbon City				
2020.9	Development of Smart Meeting Room Using AI Product to Support Moderator				
2020.3	Analysis on the relationship between walking speed and townscape using video				
0010.0	Procedural Programming	for Modeling	Urban Residential Buildings Based on Local Knowle	edge and	
2018.9	OpenStreetMap Tags				
0010.0	Development of the Plan	ning Support	Tool for Checking Building Form Legality Using Aug	gmented	
2018.3	Reality				
	Visualization of Building F	orm Regulati	on in Japan and Building Form Legality Check Bas	ed on	
2017.9	Procedural Modeling for Planning Support				
2016.9	Planning assessment of	Tsunami Eva	cuation Plan and Living Quality Improvement in Acc	commodation	
	Shelta				
	Design parameters of res	idential buildi	ng for improving performance of RHS. a case study	/ in Fuzhou	
2016.9	city, China				
L					

2016.3	Estimating Ability of Accommodation Shelters Focusing on Capacity for Earthquake Disaster —A case study of Kanazawa City, Japan—				
2015.9	Critical Threshold Analysis of Green Network Connectivity in an Urban Environment using Volunteere Geographic Information: Auckland, New Zealand				
2015.9	Agent-Based Simulation of the Effects of an Environmental Tax Policy on Residential Gas Use and CO2 Emissions: Kanazawa city				
2014.9	Prediction of Green House Gas Emissions in Rubber Cities Based on Agent-based Simulation Approach: Nathawi District, Thailand				
2014.3	Comparison of planning and design for environmental preservation industrial parks between Japan an China				
2014.3	Application of Solar Distributed Generation System in Urban Regeneration Projects, A case study in Ho Chi Minh City, Vietnam				
2013.9	An agent-based decision supporting system on urban water resource conservation planning				
2013.3	Planning regulation impacts on Middle-high rise building construction				
2013.3	Comparative Study on Urban Land Use Planning and Public Participation between Vietnam and Japan				
2013.3	Comparison of reconstruction of residential areas after earthquke between Japan and China				
2013.3	Visualization of design guildelines for green Building and green city planning using CG technology				
2012.9	An agent-based model for simulating location of community-based facilities: A case study of day-card centers in Kanazawa City				
2012.9	Visualization of planning and design of pedestrain bridge using cloud-computing VR				
Recent Doct	coral theses in these 3 years (+ more if appropriate)				
vear.month	Thesis title (including English translation of Japanese thesis title)				
<i>y</i> = ========	The Development of Design Support System for Participatory Design of Community Environment				
2021.9	Improvement using Mixed Reality				
2021.9	The Planning Strategies for Achieving Sustainable Urban Form based on Space Production Theory				
2021.9	Personal Information Protection and Rational Utilization in Space-time-behavior Analysis Based on Big Data				
2021.3	Study on Revitalization and Utilization of Historical Buildings in Japan				
2020.9	Impact of the Transformation of Built Environment on Personal Travel Behavior in Historic Urban District				
2020.9	The Impact of Built Environment on Residents' Health from the Perspective of Physical Activity				
2020.9	DESIGN GUIDELINE OF TREES PLANTING ALONG THE ROADSIDE CONSIDERING IMPACTING OF THE CO2 EMISSION DISPERSION BY VEHICLES				
2019.9	EVALUATION OF MIXED REALITY USAGE IN EVACUATION LIVING SPACE DESIGN IMPROVEMENT				
2019.9	EVACUATION SHELTER MANAGEMENT PLAN CONSIDERING EDUCATION RESTART AND LIVING ENVIRONMENT OF EVACUEES				
2019.9	Tsunami On-foot Evacuation Planning using Virtual Tessellation Route				
2018.9	OPTIMAL SOLAR DESIGN BASED ON 3D BIM MODEL ANALYSIS FOR ZERO ENERGY RESIDENTIAL BUILDING IN THE TROPICS				
2018.3	GIS-based spatial analysis for supporting the location of welfare facilities for the elderly using open data				
2017.9	GIS-BASED SIMULATION FOR EVACUATION PLANNING SUPPORT IN CASE OF EARTHQUAKE				
2017.9	The Possibility of Big Data Spatio-Temporal Analytics for Understanding Human Behavior and Their Spatial Patterns in Urban Area				
2017.9	Agent-based Simulation of Impact of Environmental Policies on Greenhouse Gas Emissions				
2016.9	Application of Cloud-based Virtual Reality Integrated Automatic Presentation Script for Understanding Urban Design Concepts				
2014.9	Cloud-based Virtual Reality Technology for Representing Design Guideline of Urban Residential Environment				
2014.9	Residential Land use and Housing Development in Indonesia from the Perspective of Sustainable Urban Form				
2013.3	2013.3 Land use and control in surburban areas based on local planning regulations				
2012.9	Simulation Systems for Planning Support of Sustainable Urban Development				
Laboratory r	nail address Zhenjiang SHEN <shenzhe *at*="" staff.kanazawa-u.ac.jp=""></shenzhe>				