Division of Electrical Engineering and	Research	Artificial Intelligence	Lab. ID	
Computer Science	field		EC21	
Laboratory web site	http://blitz.e	<u>c.t.kanazawa-u.ac.jp</u>		
Research subjects				
The aim of our laboratory is to get computers to process intellectual tasks. Our field is very wide; it concerns about				
questionnaire surveys, sensors and networks. Then to discover patterns and rules from them and apply to our				
system, we utilize datamining or machine learning technologies.				
Master/Doctor course: Education policy, curriculum, typical activity in the laboratory				
Graduated students can choose their own research theme freely by negotiation with supervisor. In some cases, they				
can tackle two or more themes. In our laboratory, we have a weekly meeting to report progression or research				
results. Further, some students make research groups by their theme, and they hold their meetings to study or progress reports. Moreover, M1 students have to hold programming seminar for B4 students.				
Daily life in the laboratory, etc.				
All students are allocated a seat and at least one PC.				
On weekday, all students have to attend and check an attendance book.				
Furthermore, a drinking party is frequently held, only by students.				
Message or comments by the laborator	rv facultv sta	ffs		
Graduate student will learn from elder	students. no	t about research but about attitude of tackling the	eir research.	
Therefore, you have to make effort to become a model of lower-class students.				
Recent Master theses in these 3 years	(+ more if a	ppropriate)		
very menth. Thesis title (including English translation of Japanese thesis title)				
2021 3 A Study on Chord Recognition Using Non-Frame-Based Training Data				
2021.3 A orangly Detection in Vibration Data using Domain Adaptation				
2021.3 Visual inspection of Industrial Products using Autoencoder and One-Class SVM				
2020 3 End-to-end Spatial Based	d Deep Neura	I Network on Self-Driving Car		
Construction of atrial fibri	illation predic	tion diagnosis algorithm with small amount of data	using machine	
2020.3 learning				
2020.3 Inspection of industrial pr	oducts using	deep learning		
2019.3 Accuracy Improvement fo	or Abnormality	y Detection of Products using AnoGAN		
2019.3 Detection of Sleep Apnea	Syndrome u	sing Self-Attention LSTM		
2019.3 Detection of Sleep Apnea	Syndrome u	sing Deep Learning		
2019.3 Detection of Inhabitant St	taying in Hom	e using Smart Meter		
2018.3 Learning Support System	for English W	/ords with Wearable Devices		
2018.3 Appearance Check using	Generative A	dversarial Network		
2018.3 Presence / Absence Esti	mation using	Smart Meter Data		
2017.3 Estimation on a putting pl	ace of a sma	rtphone using sound echoes		
2017.3 Research on sleep apnea	detection usi	ng machine learning		
2017.3 Classification of English s	entences by <sup>•</sup>	the degree of difficulty using machine learning		
2017.3 Detection of Operated Fir	nger on Touc	h Interface		
2017.3 Reserch on extraction inf	ormation fron	n disaster related tweets		
2017.3 Behavioral estimation of resident activity by plant bioelectric potential using machine learning				
2017.3 Classification of college student's buying action with usage history of Meal Prepaid Card Data				
2016.3 Position estimation of human by bioelectric potential				
2016.3 Discrimination of speech	attitude using	optical flow and prosody information		
2016 3 Estimation method of sou	nd source dir	ection for informing the speech direction to the he	aring	
impaired person				
2016.3 Evaluation System of the Bow using a Monocular Camera				
2016.3 Application recommendat	ion system us	sing the context information of smartphone users		

2015.3	Classification of School Cafeteria Users using the Meal Prepaid Card Data			
2015.3	Sleep Estimation using the log information of Android			
2015.3	A study of text extraction in natural image			
2015.3	Detectionod downstairs for visually impaired people using the Phase-Onlu Correlation Function			
2015.3	The development of Automatic Selection of Classification Algorithms Using Meta-feature			
2015.3	Development of support systems for early detection of behavior change of solitary person			
2015.3	Estimation of Emotion through Body Language			
2015.3	Development of sleep apnea detection technique using image processing and audio processing			
2014.3	A Link Selection Method for Midas Touch Problem			
2014.3	A Study on Estimation of Difficulty for Piano Scores			
2014.3	A study of background music generation using text information			
2013.3	Studies on support for curing withdrawal by using Bayesian Network			
2013.3	A Research on Recognition of Attitude Using Optical Flow			
2013.3	Object recognition for control panels on machine tools with image features			
Recent Doctoral theses in these 3 years (+ more if appropriate)				
year.month	Thesis title (including English translation of Japanese thesis title)			
2019.9	Anomaly Detection on Vibration, Image, Biological data using Deep Learning.			
2019.9	A Study on Classification of English Sentences by the Degree of Difficulty Using Data Mining			
2018.0	STUDY ON AN IMPROVEMENT OF NUMERICAL ASSOCIATION RULE EXTRACTION			
2010.9	FOR MULTI-OBJECTIVE OPTIMIZATION PROBLEM (Case Study: Bioelectric Potential Data)			
2016.3	A Study on Feature Analysis for English Writings Using Data Mining			
2016.3	The research on prediction of optimum operating cash register numbers and the cellphone carrier			
	recommendation system			
2016.3	Three Intelligent Systems for Supporting Advanced Technology– Multi-agent, Image Recognition, and Mashing Learning			
0015.0	Machine Learning –			
2015.9	Study on the intelligent smartphone for improvement of usability and users' behavior			
2013.3 Study on the Development of Intelligence Welfare System for Elderly People and Disability Person				
Laboratory n	nall address www-admin*at*blitz.ec.t.kanazawa-u.ac.jp			