Division of E	Electrical Engineering and	Research field	Video Information Processing	Lab. ID
	web site	http://vin16	ectkanazawa-u acin/	
Research subjects				
Recently, image and video processing technology has been applied in various fields such as medical appliances.				
astronomical observation, and traffic system. For example, moving picture coding technology for efficient				
transmission and storing of video signal having a large amount of information is mentioned as an example. We				
research an image and video processing algorithm for the purpose of improvement of the efficiency and the				
functionality as well as invention of new technology.				
Master/Doctor course: Education policy, curriculum, typical activity in the laboratory				
Student of the Master's level section participates a regular progress meeting once a week and discusses with staff				
and students about each research. The research theme is decided through an interview after entrance into college				
immediately. Because our subject is development of algorithm, most experiments are computer simulation.				
Daily life in t	the laboratory etc			
The student can use a personal computer in the laboratory exclusively. There are server computers in the				
labolatory and you can perform a advanced computer simulation (Staff)				
We have a gethering party of laboratory members twice in a year (M1)				
We have a genering party of laboratory members twice in a year. (with				
we have a trip together every year. (wit)				
Message or comments by the laboratory faculty staffs				
Members of the laboratory have clear goal and realistic plan for achieving it, and we have conducted research				
actively. A framework for the sudy will materialize with the trusting relationship of knowledge and daily lives				
between members.				
Students of entrance into graduate school in the laboratory are $1-3$ people every year, and they often find a job to				
a manufacture in Japan after graduation.				
Recent Master theses in these 3 years (+ more if appropriate)				
year.month Thesis title (including English translation of Japanese thesis title)				
2021.3 Deep learning for staging Liver fibrosis on MR images diagnosis				
2021.3 Pre-processing using U-net for object detection under bad conditions				
2020.3 A Fast Search of Cropped Image Using Feature Points for Digital Watermark				
2020.3	Statistical Analysis of Flash Auroras Based on Extracted Region by Level Set Method			
2020.3	Image Noise Reduction by Node Output Control of Neural Network			
2019.3	Three-dimensional visuali	zation of col	umnar structure in Drosophila brain	
2019.3	Improvement of evaluatio	n function fo	r image denoising by PRAS	
2018.3	Moving Object Extraction	by Level Set	t Method Using Color Difference in L*a*b* Color Si	nace
2018.3	Search of Watermarked In	mage Using (	compressed Feature from Auto Encoder	5400
2010.0	Improvement of Image O	ality and Pro	cessing Speed Using Tree Structure Dictionary for	Sparse
2017.3	Representation			opuloo
2017.3	Quantification of Columna	ar Structure	from Confocal Microscopy Image by Deep Learning	
2017 3	Improvement of Attack R	esistance in	Digital Watermarked Video Searching Based on Key	frame and
2017.0	SLR-LBP	on hy Loyal (	Sat Mathod Based on Frame Difference and Plus Int	formation
2017.3	A woving Object Extraction	oring Dopth	Set Method Based on Frame Difference and Bidr In	ormation
2015.3	Level Set Wetriod Corisia		and Edge Information for Moving Object Extraction	una auda Tura a ma
2010.01 Te search Algorithm Dased on the Fixel Statistics for Two-Stage Search of Digital Watermark Image				
2014.3	14.3 Inprovement of Depth Map Estimation from a Single Image Using DFD Method			
2014.3 Image Watermarking Using an Adaptive Selection Method of DFT Coefficient for Embedding				
2013.9	A Study of Ray-space Int	terpolation Ba	ased on Pathwork in Epipolar-plane Image	
2013.3	Depth Map Estimation Us	ing an Assigr	ment Based on Poisson Equation from a Single Ima	ige
2012.9 Flight Direction Detection of Drosophila for Analysis of Visual Cognitive Function				
Recent Doctoral theses in these 3 years (+ more if appropriate)				
year.month	Thesis title (including Eng	glish translatio	on of Japanese thesis title)	
2019.9	Patch-Based Neural Netw	work Super-F	Resolution for Low-Delay Real-Time Processing	
Laboratory mail address IMAMURA, Kousuke <imamura *at*="" ec.t.kanazawa-u.ac.jp=""></imamura>				