Journal of the Japan Society for Precision Engineering Vol.87 No.12 December 2021

Special Issue Biological Measurement Technology Expected for Medical and Welfare Applications

Review		
Unrestrained and Continuous B	iosensing for Medical ar	nd Health Sciences
		Kohji MITSUBAYASHI·····90
Lecture		
	ning System for Socilosi	ic Hoing Donth Comerc and
Development of an Early Scree		
3D Symmetry Analysis	Satoshi KANAI, Hideki S	SUDO and Terufumi KOKABU91
3D Endoscopic System Based on Active Stereo Method		Ryo FURUKAWA·····91
■ Biomedical Application of Tissue Clearing Methods		Hiroshi ONODERA92
■ Neural Interface : Technology to	o Link Humans and Mach	nines at the Brain/Neural Level
		Tohru YAGI and Zugui PENG·····92
Localization by Wearable Travel	Aid for Visually Impaired	Hiromi WATANABE93
Non-Contact Biological Signal M	reasurement Osing Depti	HITOOKI AUKI
My Experience in Precision Engineering	ng	
Toshiro HIGUCHI·····		94
Gravure & Interview		
		90
Hiroshi NAGAEDA Interview : Hirooki AOKI		
interview . Hirooki AOKi		
Introduction to Precision Engineering		
Introduction of Surface Profile Measuren	nent/Yohan KONDO ·····	93
Introduction of Laboratories		
Enomoto Laboratory, Department of Med	chanical Engineering, Osaka U	Iniversity ·····94
Awards		
JSPE Prize		
JSPE Technology Award		
JSPE Young Engineer Award		
JSPE Monozukuri Award	·····following pages	
JSPE Affliate News	948	
JSPE Autumn Conference, 20	021 Report 953	
Corporate Members	956	
JSPE Membership Guidance	958	
From the Lecture Committee	告 12-1	

Journal of the Japan Society for Precision Engineering Vol.87 No.12 December 2021

Selected Papers for Special Issue on Industrial Application of Image Processing

Satoshi HASHIMOTO, Kenichi KUDO, Takayuki TAKAHASHI and Kazunori UMEDA
Analysis of Temporal Changes of Gaze Locations Measured When Observers Determine Impressions for Subjects in Image
Nonoka KAWAGUCHI, Ken KINOSHITA, Naoto KATO, Michiko INOUE, Masashi NISHIYAMA and Yoshio IWAI
A Study on Print Inspection Methods for Commercial Printing Presses based on "Comparison KIZKI Processing" ———— 97 Kimiya AOKI, Yuma HAKUMURA, Taiyo ITO, Kota AOYAGI, Susumu MIKAJIRI, Wataru NARA, Takuji KAMADA ar Ryo ISHIZUKA
Line Structured Light-Based Tunnel 3D Measurement with 2D-3D Point Cloud Matching on Projected Light of Ring Las
Takuya IGAUE, Hiroshi HIGUCHI, Mikihiro IKURA, Kenichi YOSHIDA, Satoshi ITO, Nobuhiro TANIGUCHI, Atsus YAMASHITA and Hajime ASAMA
Analysis of Use of Figures and Tables in Computer Vision Papers Using Image Recognition Technique ————————————————————————————————————
Development of High-Accuracy Defect Detection Algorithm for X-Ray Welding Image Inspection under Strong Noise, Lo Contrast and Few Samples — 100 Kenji IWATA, Tomohiro MATSUMOTO, Keiko AOYAMA, Keisuke KAJIKAWA, Koji GOTO and Kiichi SUGIMOTO
Anomaly Detection for Wide-Field Images Using Gaze Prediction Module ————————————————————————————————————
A Fractal Geometry Based Method for Dataset Augmentation by Automatically Generation of Multi-View Images ————————————————————————————————————
Scratch Detection Based on Image Reconstruction Using Ideal-Image-Pair Dataset of Just before/after Defect Occurrence
Hiroki KOBAYASHI, Naoya NAKABAYASHI, Ryo MIYOSHI and Manabu HASHIMOTO
Sign Language Recognition Based on Spatial-Temporal Graph Convolution-Transformer ———————————————————————————————————

*The journal papers listed above are published on J-STAGE (Japan Science and Technology Information Aggregator, Electronic).

https://www.jstage.jst.go.jp/browse/jjspe/-char/en/

This printed material does not include these papers.