Journal of the Japan Society for Precision Engineering Vol.85 No.9 September 2019

State-of-the-Art Medical Diagnostic Technology Created by Precision Engineering

Review	
■ Medical and Healthcare Technologies That Require Res	earch and Development to Build a Desirable
Japanese Society in 2040~Consideration Based on D	iscussion at the Future Innovation Working
Group~	Ichiro SAKUMA·····745
Lecture	
■ Method of Medical DiglTalization (Me-DigIT) and Its Ef	fects and Social Impacts
Norihiro KOIZUMI, Yu NISHIYAMA, Fur	nio EURA, Tsubasa IMAIZUMI,
Akihide OTSUKA, Yudai SASAKI, Yuk	a SHIGENARI, Riki IGARASHI,
Kenta KUSAHARA, Kento KOBAY	
Naoki MATSUMOTO, Masa	ahiro OGAWA and Sunao SHOJI·····749
■ Development of Cell Chips for Diagnosis	Shohei YAMAMURA·····753
■ Cancer Diagnosis Using Nanowire Devices	Takao YASUI·····757
Applying Convolutional Neural Networks for Automat	ic Detection of Early Gastric Cancer with
Limited Endoscopic Images	
Satoko TAKEMOTO, Keisuke HORI, Yoshimasa	SAKAI, Masaomi NISHIMURA,
Hiroaki IKEMATSU, Tomon	ori YANO and Hideo YOKOTA·····761
X-ray CT System Working on Dose Reduction of Medical	Exposure Katsumi GOTANDA······765
■ My Experience in Precision Engineering	
Yasuto TATSUTA ······	777
Gravure & Interview Olympus Corporation	
Olympus Corporation Yasuhito KURA/Yasuyuki FUTATSUGI/Masahiro KAWAUCHI	741
Interview : Jongho PARK	
Introduction to Precision Engineering Phenomenon of the Cylindrical Grinding - Grinding Forces and the	Thermal Deformation of the Ground Workpiece/
Takashi ONISHI	
Introduction of Laboratories	
MicroNano Processing Laboratory, Top Runner Incubation Center	
MicroNano Processing Laboratory, Top Runner Incubation Center	
MicroNano Processing Laboratory, Top Runner Incubation Center Engineering, Nagaoka University of Technology JSPE Affiliate News 778 Corporate Members	
MicroNano Processing Laboratory, Top Runner Incubation Center Engineering, Nagaoka University of Technology JSPE Affiliate News Corporate Members 783 Information	
MicroNano Processing Laboratory, Top Runner Incubation Center Engineering, Nagaoka University of Technology JSPE Affiliate News Corporate Members 783 Information 785 JSPE Membership Guidance 786	
MicroNano Processing Laboratory, Top Runner Incubation Center Engineering, Nagaoka University of Technology JSPE Affiliate News Corporate Members 783 Information	

The Japan Society for Precision Engineering

Paper

Ш	Development of a Water-Film Chuck (2nd Report)	-787
	—Thinning Method of Water-Film and Wafer Thinning by Grinding—	
	Kenichiro YOSHITOMI, Atsunobu UNE, Tsubasa BANDO and Eiichi YAMAMOTO	
	Relationships among Carrier, Friction Coefficient and Removal Rate of Double-Sided Polishing	- 793
	—Effect of Carrier on Friction Coefficient between Polishing Pad and Substrate and Correlation of Friction Coefficien Removal Rate—	t and
	Michio UNEDA, Michiaki HIYAMA, Ryo IZUMIDA, Kazutaka SHIBUYA, Tadakazu MIYASHITA and KerISHIKAWA	n-ichi
	Development of a Cell Micro Tensile Tester and Its Application to Quantitative Analysis of Cell Stiffness and Adher Forces of Vascular Smooth Muscle Cells	esion 800
	—Measurement of a Single Cell Stiffness and Adhesion Force—	
	Kazuaki NAGAYAMA and Shigeaki OHATA	

*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.