

9th International Conference of the European Society for Precision Engineering and Nanotechnology

Session 4: High Precision Mechatronics

Thursday 4th June 2009, 14:00-15:45

Paper Title	Title	Name(s)	Surname	Affiliation	Ref. No
3-Arms Microrobotic Piezoelectric System For Different Applications	Dr	Volodymyr	Maslov	OSA,SPIE, Ukraine	P4.1
Enhancement of the static and dynamic compliance of a milling machine by an adaptronic spindle system	Dip-Ing	Olaf	Gümmer	Institute of Production Engineering and Machine Tools (IFW), Leibniz Universitaet Hannover	P4.2
Design and experimental results of a novel high frequency MEMS scanning mirror	Prof.	Herman	Soemers	Philips Applied Technologies, NL	P4.3
Ultra-precise continuous path control over a one-millimeter stroke by means of flexure guide and electromagnetic linear motor	Prof.	Shigeo	Fukada	Shinshu University, Japan	P4.4
Silicium-based flexure mechanisms : example of a micro-balance	Dr	Simon	Henein	CSEM : Centre Suisse d'Electronique et de Microtechnique, Switzerland	P4.5
Performance analysis and Parametric Design of an Ultra Precision XY Parallel Kinematics Stage Using a Coupled Flexure Leaf Spring Mechanism	Prof.	Jaehwa	Jeong	Department of Control and Instrumentation Engineering, Korea University, Korea	P4.6

Development of a high precision self-adjusting laser mirror module	Dip-Ing	Joffrey	Stimpfl	Fraunhofer Institute for Production Technology, Germany	P4.7
Design and Control of a Parallel Kinematic 6-DOFs Precision Manipulator	Dr	Dannis	Brouwer	IMPACT, Institute of Mechanics, Processes and Control, University of Twente, the Netherlands	P4.8
Bench Mark of High Level Programming – Pilot Case Vibration Control	Dr	Per	Carlqvist	KTH Mechatronics, Sweden	P4.10
NForcer Technology: Magnetically levitated platform with nanometre precision scanning motion	Dr	Georgo	Angelis	Philips Applied Technologies, NL	P4.11
GAIA Auto Collimator Flat Mirror Mechanism Assembly	Dip-Ing	Ellart	Meijer	TNO Science & Industry, NL	P4.12
Thermo-Mechanical Design of a Temperature Controlled Heat Shield	Mr	Ronald	Lamers	TNO Science & Industry, NL	P4.13
Reduction of disturbance effects and positioning noise for high-precision planar magnetic guidances	Dip-Ing	Ralf	Volkert	Ilmenau University of Technology, DE	P4.14
A flexure-based planar positioner with friction controllable element	Dr	Akihiro	TORII	Aichi Institute of Technology, JP	P4.15
Design of high precision linear motor with Halbach magnet array and sparse winding 3 phase coil model	Prof.	Moon G.	Lee	Division of Mechanical Engineering, Ajou University, Korea	P4.16
Control and Excitation of Ultrasonic Motors Using a Test-Bench with Dedicated Electronic Circuits	Dip-Ing	Elmar	Rothenhöfer	University of Stuttgart, DE	P4.17

Real Time Error Compensation Integrating Open Control System and Laser Interferometer	Dip-Ing	Jörg	Eßmann	Technical University of Berlin, Germany	P4.18
Development of a planar piezomotor with a direct and resonant mode of operation	Dip-Ing	Michael	Houben	Katholieke Universiteit Leuven, Belgium	P4.20
A piezo-driven adaptive tool holder for ultraprecision diamond tool alignment	Mr	Lars	Schönemann	LFM - Laboratory for Precision Machining, University of Bremen, DE	P4.21
High Torque and High Precision Rotary Table System Driven by Hybrid Actuator	Mr	Mamoru	Hayashi	Tokyo Institute of Technology, JP	P4.22
Model Based Compensation of Vibration Rectification in Precision Inertial Sensors	Dr	Swavik	Spiewak	University of Calgary, Canada	P4.23