

The Programme of ISIST 2006

Venue: Vicotries Hotel (HUA QI FAN DIAN), Harbin.

Address: No. 301, HongQiDaJie, Harbin, P.R. China

2006.8.8~2006.8.12

Registration (8:30 ~ 20:30, August 8, 2006)	
Opening Ceremony (8:30 ~9:00, August 9, 2006)	
8:30 ~ 8:40	Opening Speech Prof. Jiubin Tan
8:42 ~ 8:52	Congratulation Speech Prof. Li Zhu
8:53 ~ 9:03	Congratulation Speech Prof. Wang Fuping (Vice Chancellor of HIT)
Coffee Break(9:05 ~ 9:20)	
Plenary Session I (Chairman: Prof Peter Rolfe, Prof. Li Zhu)	
9:20 ~ 10:10	Nano- and Atomic-scale Length Metrology. Dr. Theodore Vorbürger
10:10 ~ 11:00	New developments of the instrumented indentation test Dr. K. Herrmann
11:00 ~ 11:50	Developments in confocal microscopy technology Prof. Yony Wilson
Photography (11:50- 12:20)	
Lunch (12:20~13:30)	
Plenary Session II (Prof.)	
13:30 ~ 14:20	The Deterministic Approach in Manufacturing and Measurement Prof. Jim Bryan
14:20 ~ 15:10	Novel Optical Sensors for Testing and Measurement Prof. Anand Asundi
Coffee Break(15:10 ~ 15:25)	
Plenary Session III(15:25~16:15)	
15:25 ~ 16:15	High density Volume holographic data storage and correlation system Prof. Jin GuoFan
16:15 ~ 17:05	Interferometer-independent analysis software for use over a wide range of metrology applications Dr. Mary Turner
Room 1--Aug. 10	
Session 1 Optical and Laser Measurement(1)(Chairman Prof. Zhang Shulian, Prof. Zhang Guoxiong)	
Time Plan	Title of Presentation Author
1 8:30~8:45	Self-mixing interferometer Nano-Fringes in Laser Feedback Zhang Shulian
2 8:45~9:00	Influence of a tilt of mirror surface on the measurement accuracy of laser triangulation rangefinder S V Mikhlyayev
3 9:00~9:15	Microforce materials tester based on the Levitation Mass Method Yusaku Fujii
4 9:15~9:30	Developed of a Multi-Degree of Freedoms Measuring System and an Error Compensation Technique for Machine Tools Wen-Yuh Jywe, Chien-Hung Liu, W. H. Shien, Lih-Horng Shyu, Te-Hua Fang, Yung-Hoh Sheu, Tung-Hui Hsu, Chi-Chen Hsieh
5 9:30~9:45	Method for Rapid Prototyping by Using Linear Light as Sources S Y Lee, M R Wang, C Y Chen, C L Chen, S J Hwang, H Chen, W H Lai, L T Shyng and C C Wang

6	9:45~10:00	6-0004	New absolute distance measurement technique with a self-mixing interferometer	Dongmei Guo, Ming Wang
7	10:00~10:15	6-0054	Multicycle synchronous digital phase measurement used to further improve phase-shift laser range finding	Siyuan Liu, Jiubin Tan and Binke Hou
8	10:15~10:30	6-0034	Optical remote inspection of live contact wire cross-sections in train's electro-supply network	V S Bazin, Yu V Chugui, S V Kalichkin, S N Makarov, A G Verkhoglyad, I A Vykhristyuk

Coffee Break(10:30 ~ 10:45)

Session 2 Optical and Laser Measurement(2)(Chairman Prof. C. Quan, Prof. Wu Liying)

1	10:45~11:00	3-0118	Vibration measurement by use of wavelet transform and temporal carrier technique	C Quan, Y Fu, C J Tay
2	11:00~11:15	6-0030	Design of Diode-pumped Dual-frequency Nd:YAG Green Laser with Large Frequency-difference for Absolute-distance Interferometry	M X Jiao, Y Liu, J H Xing
3	11:15~11:30	6-0022	Development of a high-spectral-resolution lidar for accurate profiling of the urban aerosol spatial variations	Jun Liu, Dengxin Hua, Yan Li
4	11:30~11:45	6-0052	Flying height Measurement of magnetic disk using double common-path heterodyne interferometer	Dejiao Lin, Zhaoyang Yue, Nanhai Song, Yonggang Meng, Chunyong Yin
5	11:45~12:00	6-0019	Small-angle measurement of laser beam steering based on total internal-reflection effect	Zhang Wenye, Zhang Jian, Wu Liying
6	12:00~12:15	6-0045	Study on the Phase Modulation Characteristics of Liquid Crystal Spatial Light Modulator	Zhang Yan, Wu Liying, Zhang Jian
7	12:15~12:30	5-017	Research on Coherent Laser Warning Receiver Based Sinusoidal Transmission Grating Diffraction	Zhang Ji Long, Tian Er Ming, Wang Zhi Bin
		6-0035	Shaping semiconductor laser beam with one-dimension gradient-index lens	Mi Lei, Yao Shengli, Li Qiang, Gao Feng

Lunch (12:20~13:30)

Session 3 Sensors and Conversion Technologies(Chairman: Prof. Asundi, Prof. Wang Lei)

1	13:30~13:45	6-0029	Development of A four-degrees-of-freedom diffraction sensor	Chien-Hung Liu, Wen-Yuh Jywe, Cha'o-Kuang Chen, W. H. Shien, Lih-Horng Shyu, Liang- Wen Ji, Van-Tsai Liu, Tung-Hui Hsu, Chih-Da Chen
2	13:45~14:00	2-0018	The Neural Network Method for Non-linear Correction of the Thermal Resistance Transducer	Wei He, Jinhui Lan, Yixin Yin and Zhaohui Zhang
3	14:00~14:15	2-0024	The performance improvement of conductivity sensor via primary field compensation	Chen-Ning Huang, Fang-Ming Yu, Ta-Chung Hsieh, Hung-Yuan Chung
4	14:15~14:30	2-0031	Temperature Error Modeling Study for Laser Gyro	H O He, Z Zhao, L Wang, Y M Shao
5	14:30~14:45	2-0045	Suspension geometry measuring	M J Kao, C C Yu, H Chang, T T Tsung, H M Lin
6	14:45~15:00	2-0011	Binary channel SAW mustard gas sensor based on PdPc0.3PANi0.7 hybrid sensitive film	Yun-Bo Shi, Jin-Juan Xiang, Qiao-Hua Feng, Zhu-Ping Hu, Hong-Quan Zhang and Jian-Ying Guo
7	15:00~15:15	2-0046	Micromachined Accelerometer with Frame Structure	Weiping Chen, Zhengang Zhao, Xiaowei Liu

Coffee Break(15:15 ~ 15:30)

Session 4 Advanced Optics and Measurement(Chairman: Prof. Igor A Konyakhin, Prof. Wu Liying)

1	15:30~15:45	9-0028	Optic-electronic systems for measuring angle deformations of a fully rotatable radiotelescope	Igor A Konyakhin, Alexander N Timofeev, Alexey M Vorona
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2	15:45~16:00	9-0024	Observation of 3-D birefringence distribution of polymer thin film by near-field optical microscope	Jing Qin, H. Nagai, T. Numata, Y. Otani, N. Umeda
3	16:00~16:15	9-0031	Research on the methods to compensate the systematic error at optical autoreflection angular measurements	I A Konyakhin, V M Polyakov, A M Vorona
4	16:15~16:30	9-0004	In-situ and ex-situ measurements on silicon thin films fabricated by excimer laser annealing	Chil-Chyuan Kuo, Wen-Chang Yeh, Ji-Feng Lee, Jeng-Ywan Jeng
5	16:30~16:45	7-008	A measurement system for the phase retardation of liquid crystal particles under an electric field effect	Cheng-Chi Wang, Ming-Jyi Jang, Pei-Ling Ko
6	16:45~17:00	9-0025	High-bandwidth Dynamic Full-Field Profilometry for Nano-scale Characterization of MEMS	Liang-Chia Chen, Yao-Ting Huang, Pi-Bai Chang
7	17:00~17:15	9-0019	Interference Phase Measurement for Liquid Crystal Spatial Light Modulator	Zhang Hongxin, Zhang Jian, Wu Liying
8	17:15~17:30	10-0005	Research on the phase aberration correction with a deformable mirror controlled by a genetic algorithm	Ping Yang, Shijie Hu, Shanqiu Chen, Wei Yang, Bing Xu, Wenhan Jiang
9		7-030	Measurement of transparent film using vertical scanning white-light interferometry	

Room 1--Aug. 11

Session 5 Signal and Image Processing(1)(Chairman: Prof. Yuri Chugui, Prof. He Qingsheng)

1	8:30~8:45	3-0101	3D-diffraction by volumetric bodies of constant thickness under various illuminations applied to optical inspection	Yu V Chugui, K A Zebrev
2	8:45~9:00	3-0102	Minimum L0-norm two-dimensional phase unwrapping algorithm based on the derivative variance correlation map	Yuangang Lu, Xuping Zhang
3	9:00~9:15	3-0078	Rotation-invariant Texture Characterization Using Radon and Fourier Transforms	Song-Shan XIAO, Yong-Xing WU
4	9:15~9:30	3-0088	Research on Extraction of Ship Target in Complex Sea-sky Background	W J Kang, X M Ding, J W Cui, L Ao
5	9:30~9:45	3-0044	3D model retrieval based on vector quantisation index histograms	Zhe-Ming Lu, Hao Luo, Jeng-Shyang Pan
6	9:45~10:00	3-0061	The Research on Wavelet Audio Watermark Based on Independent Component Analysis	MA Xuefei, Jiang Tao
7	10:00~10:15	3-0021	Studies on the plant electric wave signal by the wavelet analysis	WANG Lan-zhou, LI Hai-xia, LI Qiao

Coffee Break(10:15~10:30)

Session 6 Signal and Image Processing(2)(Chairman: Prof. , Prof.)

1	10:30~10:45	3-0128	Accurate Subpixel Edge Location Method Based on Zernike Moment	Cui Jiwen, Tan Jubin, Zhou Yan, Liu Dandan
2	10:45~11:00	4-0060	Analysis of DC offset influence on transient signal	Yan Wang, Jun Lin, Guohua Zhou
3	11:00~11:15	3-0035	Optimal recursive bidirection prediction for hyperspectral image compression	Yushi Chen, Ye Zhang, Junping Zhang, Yanfeng Gu
4	11:15~11:30	3-0125	From 2D to 3D: Using Illumination Cones to Build 3d Face Model	Songshan Xiao, Meng Jin
5	11:30~11:45	3-0023	Curvelet-based Image Fusion Algorithm for Effective Anomaly Detection in Hyperspectral Imagery	Gu Yanfeng, Liu Ying, Wang Chunye, Zhang Ye
6	11:45~12:00	3-0026	A hybrid ECT image reconstruction algorithm based on Tikhonov regularization theory and SIRT algorithm	Wang Lei, Du Xiaotong, Shao Xiaoyin

7	12:00~12:15	3-0105	Noisy image segmentation by modified snake model	Rong Lu, Yi Shen
8	12:15~12:30	3-0085	Real-Time 3D Profile Measurement using Structured Light	Li Xu, Zhijiang Zhang, He Ma, Yingjie Yu

Room 2--Aug. 10

Session 7 Foundational Theories and Methodologies on Instrumentation(1)(Chairman: Prof. Zhang Hongjian , Prof.)

	Time Plan		Title of Presentation	Author
1	8:30~8:45	1-0059	Optimal polarization characteristics of instruments recording the scattered radiation	V G Oshlakov, V K Oshlakov and T A Eryomina
2	8:45~9:00	1-0108	Methods research about accuracy loss tracing of dynamic measurement system based on WNN	Shen-Wang Lin, Yetai Fei, Minlan Jiang, Cheng -Yueh Tsai, Hsin-yu Cheng
3	9:00~9:15	1-0086	Calculation of the Unit Normal Vector Using the Cross-Curve Moving Mask for Measurement Data Obtained from a Coordinate Measuring Machine	Fang-Jung Shiou, Ruey-Tsung Lee
4	9:15~9:30	1-0020	Research on Vibration Test Conditions in Particle Impact Noise Detection	Zhang Hui, Wang Shu juan, Zhai Guo fu
5	9:30~9:45	1-0079	Evaluation of Stress Using Ultrasonic Technique Based on Hilbert-Huang Transform	Qing He, Hongjian Zhang and Hongliang Zhou
6	9:45~10:00	1-0037	Numerical simulation modelling for velocity measurement of electromagnetic flow meter	Jinghuo Wang, Chenglong Gong, G. Y. Tian and G. P. Lucas
7	10:00~10:15	1-0060	Numerical method of determination of optimal parameters of the beam orientation system	V G Oshlakov, T A Eryomina

Coffee Break(10:15 ~ 10:30)

Session 8 Foundational Theories and Methodologies on Instrumentation(2)(Chairman: Prof. Wang Yuke, Prof. Yu Xiaoyang)

1	10:30~10:45	2-0019	Study of pipeline robot's localization technology based on ultra-low frequency electromagnetic wave	Qi H M, Chen H J, Zhang X H, Zhao X N and Guo Y B
2	10:45~11:00	1-0091	Drift Data Modeling of Laser Gyro Based on Neural Networks	Y M Shao, Z Zhao, L Wang and H O He
3	11:00~11:15	2-0030	A method of compensating magnetic compass error using BP network	L Wang, Z Zhao, Y M Shao and H O He
4	11:15~11:30	1-0084	Analysis on surface texture software measurement standards and their application	LI Xiaogai, LIU Xiaojun, JIANG Xiangqian, XU Zhengao
5	11:30~11:45	1-0096	Design of Softgauge for Surface Profile Evaluation	NIE Mengqing, LIU Xiaojun, JIANG Xiangqian
6	11:45~12:00	1-0070	Research on Error Modelling and Identification of 3 Axis NC Machine Tools based on Cross Grid Encoder Measurement	Du Zhengchun, Lv Chaofeng, Hong Maisheng
7	12:00~12:15	14-0024	Design of stress-strain measuring system for bulldozing plate based on virtual instrument technology	Jianqiao Li, Shucai Xu, Rui Zhang
8	12:15~12:30	14-0075	Experimental research of crosscorrelation-based virtual dynamic flowmeter	Wanlu Jiang, Hongmei Sun, Hui Feng Niu, Ming Gao
		1-0100	Research of Motion Resolving and Filtering Algorithm of a Ship's three-freedom Motion Simulation Platform Based on LabVIEW	Wang Xianfeng, Zhao Xiren, Yang Xuejing

Lunch (12:20~13:30)

Session 9 Opto-Electro-Mechanical Integration for Instrumentation(1)(Chairman: Prof. Kuang-Chao Fan, Prof.)

1	13:30~13:45	4-0079	Optical measuring technologies for industrial and scientific applications	Yu V Chugui, S V Plotnikov, A K Potashnikov, A G Verkhoglyad
2	13:45~14:00	4-0025	Research on Web-Based Networked Virtual Instrument System	Baoping Tang, Cong Xu, Qiyuan He, Dong Lu
3	14:00~14:15	9-0043	Dimensional measurement of 3D microstructure based on white light interferometer	W Feng, S C H Thian, K H Tee, Y S Wong, J Y H Fuh, H T Loh, Y Tang, L Lu
4	14:15~14:30	4-005	Microwave components as functional elements for industrial sensors	A. S. Sovlukov, V.A. Viktorov
5	14:30~14:45	4-0037	System testability analysis for complex electronic devices based on multisignal model	LONG Bing, TIAN Shulin, Huang Jianguo
6	14:45~15:00	5-0011	A Study of Two Fluids Mixing in a Helical-Type Micromixer	Y H Hu, M Chang and K H Lin
7	15:00~15:15	4-0059	A rotative electrical impedance tomography reconstruction system	Fang-Ming Yu, Chen-Ning Huang, Fang-Wei Chang, Hung-Yuan Chung
		4-0034	Design of High-speed Wear Lifetime Tester of the Instrument Ball Bearings	Liu Chunhao, Gu Jiaming , Sun Yan and Chen Xiaoyang

Coffee Break(15:15 ~ 15:30)

Session 10 Opto-Electro-Mechanical Integration for Instrumentation(2)(Chairman: Prof. Chetwynd, Prof. Zhao Xueze)

1	15:30~15:45	4-0084	The Friction of Vehicle Brake Tandem Master Cylinder	M J Kao, H Chang, T T Tsung, H M Lin
2	15:45~16:00	4-0047	The measurement and analysis of Pressure Square Wave Generator	T T Tsung, S H Wang, L L Han
3	16:00~16:15	4-0092	Dynamic measurement of extra long stroke cylinder in the pneumatic system	Ho Chang, Chou-wei Lan, Liang-Chia Chen
4	16:15~16:30	6-0011	The Measuring Instrument of Plumb Coaxial Error for Long-distance Orifices Based on Laser Collimation	Bo Liu, Mengying Yu
5	16:30~16:45	4-0078	Optical-electronic system for remote measurements of shifts and deformations in huge mechanical and engineering constructions	Yu V Chugui, V S Bazin, A G Verkhoglyad, S V Kalichkin, V E Kalikin, S N Makarov, S G Savkov
6	16:45~17:00	4-0039	Measurement of the nonlinear error in signal response of a photodetector	V G Oshlakov
7	17:00~17:15	4-0040	Libration Controller of Electromagnetic Vehicle Vibrator	SUN Feng, CHEN Zu Bin
8	17:15~17:30	4-0095	Design and application of multi-channel simultaneous detection system of well-earth potential	Shao Lei, Lin Jun, Wei Jianrong, Sui Yangyi, Wu Ziyu
		4-0026	Research on Bluetooth-Based Distributed Measurement System	Zhuo Chen, Baoping Tang, Yuguo Wei, Xiaofeng Qin

Room 2--Aug. 11

Session 11 Opto-Electro-Mechanical Integration for Instrumentation(3)(Chairman: Prof. Norihiro Umeda, Prof. Zhang Jian)

1	8:30~8:45	4-0014	Research on double CCD dimensional metrology applying in large forge piece	Chunhai Hu, Zhi Xiong
2	8:45~9:00	4-0004	Accuracy advancement of non-contact temperature measurement with differential technology	Kebao Xu, Juncheng Wang, Lili Gao, Xiaobao Li
3	9:00~9:15	5-0001	Adaptive optics optical coherence tomography based on a 61-element deformable mirror	Shi Guo-hua, Ding Zhi-hua, Dai Yun, Rao Xue-jun, Zhang Yu-dong
4	9:15~9:30	6-0031	A Large-scale Laser Plane Calibration System	Ma Liqun, Cao Tieze, Wang Jihu, He Xiaomei, Xiong changyou, Wang Liding
5	9:30~9:45	4-0033	Research of the Lifting Wavelet Arithmetic and Applied in Rotary Mechanic Fault Diagnosis	Zhang Shuqing, He Na, Xu Xiaohua, Zang Xiaoyan

6	9:45~10:00	4-0028	The Rotational Mechanic Equipment Fault Diagnosis based on the Wavelet Packet Analysis	Zhang Liguo, Gu Zhenpu, Lv Jiangtao, Wang Yutian, Huang Tao
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Coffee Break(10:15 ~ 10:30)

Session 12 Instrumentation of Life Science and Environment Science(Chairman: Prof. Peter Rolfe, Prof. Li Dongsheng)				
1	10:30~10:45	4-0075	Biomedical Instruments for Fetal and Neonatal Surveillance	Peter Rolfe, Fabio Scopesi, Giovanni Serra
2	10:45~11:00	13-0007	High-contrast multimodel nonlinear optical imaging of collagen and elastin	Shuangmu Zhuo, Jianxin Chen, Tianshu Luo, Huanglin Chen, Jingjun Zhao
3	11:00~11:15	13-0023	The Day and Night Fluctuation Law of the Thickness of Plant Leaves	Li Dongsheng, He Manxi, Weng Huijuan, Wang Ziqian
4	11:15~11:30	6-0021	Development of a new instrument for the measurement of the milk constituents based on the embedded system	Zhen Zhou, Juan Wu, Lijun Su, Zhonggang Li, Hong Zhao
5	11:30~11:45	1-0034	Study on the concentration measurement of the pollution gases from coal-fired power station	Longjiang Zheng and Li Wei
6	11:45~12:00	12-0001	Monitoring of the Electromagnetic Fluctuations from Industrial Sources (Range Geomagnetic Pulsations 0.01-10 Hz)	Rakhmatulin R. A.
7	12:00~12:15	12-0005	Research of organic pollutants detection in the roadside soil at the suburb of the north China	Liu Xiaoyan, Li Chun, Mao Guocheng, Zhu Qianya, Dai Chunlei, Sun Jingxin, Li Yingli
8	12:15~12:30	14-0031	The Design of Wireless Sensor Network System Based on ZigBee Technology for Greenhouse	ZHU Ying Wei, ZHONG Xian Xing, SHI Jun Feng
		1-0042	Study on method of ultrasonic gas temperature measure based on FPGA	WEN Shu-hui and XU Feng-rong
		9-007	Design of Portable Turbidimeter Based on Cynal Microcomputer	Sun Mojie, Sun Xuhui, Song Xiaochen, Zhang Ting, Zhang Xiaojun

Room 3--Aug. 10

Session 13 Automatic Measurement and Control(Chairman: Prof. , Prof.)				
	Time Plan		Title of Presentation	Author
1	8:30~8:45	10-002	Surface Fine Grinding via a Regenerative Grinding Methodology	Hsin-Yi Lai, Chao'-Kuang Chen
2	8:45~9:00	14-0055	A Study of Gas Economizing Pneumatic Cylinder	T. C. Li, H. W. Wu, M. J. Kuo
3	9:00~9:15	14-0017	Grid Based Integration Technologies of Virtual Measurement System	Dengpan Zhang, Lingsong He, HongYang
4	9:15~9:30	14-0051	Design and Fabrication of a Testing table for a Switch	T C Li, H W Wu
5	9:30~9:45	14-0033	Self-organizing Neural-net Control of Ship's Horizontal Motion	Yang Xuejing, Zhao Xiren

6	9:45~10:00	14-0028	Study on on-line Measurement and Controlling System of the foundation trench-leveling machine	Jinggong Yi, Haiyong Jiang, Yazhou Xing, Jing Chen, Jiangtao Liu
7	10:00~10:15	14-0081	Study on Communication Mode of Wireless Sensor Networks Based on Effective Result	SHI Jun-feng, ZHONG Xian-xin, CHEN Shuai
8	10:15~10:30	14-0040	Drive control system for pipeline crawl robot based on CAN bus	Chen H J, Gao B T, Zhang X H, Deng Z Q

Coffee Break(10:15 ~ 10:30)

Session 14 Fiber and Diffractive Optics(Chairman: Prof. Gao Yongsheng, Prof. Yusaku Fujii)				
8	10:30~10:45	7-0031	Advances in Fibre Optic Sensing in Medicine and Biology	Peter Rolfe
9	10:45~11:00	7-0032	AN ANALYTICAL APPROACH AND OPTIMIZATION OF CURVATURE GAUGE	M. Kovačević, A. Djordjević, D. Nikezić
10	11:00~11:15	8-0005	The 3-D reconstruction of phase grating via digital micro-holography	Wenjing Zhou, Yingjie Yu, zhijiang zhang
11	11:15~11:30	7-0022	Design of a fiber-optic disk accelerometer: theory, experiment	Yongjie Wang, Hao Xiao, Songwei Zhang, Fang Li, Yuliang Liu
12	11:30~11:45	7-0006	Research of Laser Mechanism of High Power Double-cladding DBR Fiber Laser	DING yaofang, JIANG desheng, ZHOU ciming
13	11:45~12:00	7-0012	Optical cable fault location method based on BOTDR and cable localized heating	Yuangang Lu, Xuping Zhang, Yuming Dong, Yuehui Liu, Feng Wang
14	12:00~12:15	8-0003	Phase-only SLM generating variable patterns applied in optical connection	Bohan Liu, Liyong Wu, Jian Zhang
15	12:15~12:30	8-0012	Diffractive Characters Analysis and Influence on Imaging When Mesh Tilting from Optical Axis	Z G Lu, J B Tan, J Liu, P Jin, Y C Wang

Lunch (12:20~13:30)

Session 15 Nano Technology and MEMS(1)(Chairman: Prof. Huang Wenhao, Prof. Liu Xianping)				
1	13:30~13:45			Huang Wenhao
2	13:45~14:00	8-001	Single-shot birefringence measurement using a radial polarizer fabricated by an AFM stroking method	Itaru Nishiyama, Norihiro Umeda, Norio Yoshida, Takayuki Numata and Yukitoshi Otani
3	14:00~14:15	8-002	Stylus Contact on Short Wavelength Random Surfaces: a Simulation Study	Ailing Tian, X. Liu, D. G Chetwynd, Zhijian Cai
4	14:15~14:30	11-0025	Displacement sensor in micro/nano level	Kuang-Chao Fan, Yung-Chang Chen, Zi-Fa Lai, Peitsung Wu
5	14:30~14:45	11-0026	An atomic force microscope head designed for nanometrology	Lu Mingzhen, Gao Sitian, Jin Qihai, Cui Jianjun, Du Hua, Gao Honggang
6	14:45~15:00	11-0027	Automatic 3-D Surface Reconstruction and Sphericity Measurement of Micro Spherical Balls of Miniaturized Coordinate Measuring Probes	Liang-Chia Chen, Kuo-Chung Wang, Dong-Yea Sheu
7	15:15~15:30	11-0033	Development of anodic flux and temperature controlling system for micro direct methanol fuel cell	Miaomiao Li, Chong Liu, Junsheng Liang, Chengbai Wu, Zheng Xu
		11-0016	In-situ Thickness Measurement System for Porous Alumina Film Based on AFM and Spectrometer	Xiong Dan , Zhang Haijun, Zhang Dongxian

Coffee Break(15:30 ~ 15:45)

Session 16 Nano Technology and MEMS(2)(Chairman: Prof. Kuang-Chao Fan, Prof. Zhang Haijun)

8	15:45~16:00	11-0005	Fabrication of Ultramicroelectrodes Based on PECVD	B Yang, M Z Zhu, Z D Jiang, W X Jing, H Zhang
9	16:00~16:15	11-0046	Dynamic Characteristic Testing Technology for MEMS Micro-Device with Base Excitation	X D Wang, N Li, T Wang, M W Liu, L D Wang
10	16:15~16:30	11-0018	A method to extract the intrinsic mechanical properties of soft metallic thin films based on nanoindentation continuous stiffness measurement technique	Zhou Xiangyang, Jiang Zhuangde, Wang Hairong, Zhu Qiang
11	16:30~16:45	11-0049	Finte element analysis of PMMA microfluidic chip based on hot embossing technique	Luo Yi, Xu Min, Wang Xiaodong, Liu Chong
12	16:45~17:00	11-0035	Fabrication and Line Edge Roughness Analysis of Sub-45nm Linewidth Standard	F X Zhao, Z D Jiang, W X Jing, M Z Zhu, H L Duan
13	17:00~17:15	11-0003	FEM applied to evaluate composite hardness of SiO2 film/316 LSS substrate system	Wang Hairong, Jiang Zhuangde, Zhou Xiangyang, Zhang Ying
			Study of 660nm Laser-Induced Photoluminescence of Chlorophyll-and Its Applications	Song Yi, Zhang Dongxian, Zhang Haijun