



*6<sup>th</sup> Asia-Pacific Conference “Fundamental Problems of Opto- and Microelectronics (APCOM2006),  
September 12-14, 2006, Harbin, China*

*Technical Program*



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***Dr. Zhi Zhou***

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**General Secretary**: *Zhi Zhou HIT, China*

# *Agenda of Conference*

<i>Tuesday, Sep. 12, 2006</i>	
<i>2:00 pm~5:30 pm</i>	<i>Registration at conference hall</i>
<i>Wednesday, Sep.13, 2006</i>	
<i>08:30~10:00</i>	<i>4 Sessions report simultaneously</i>
<i>10:00~10:30</i>	<i>Coffee break at conference Hall</i>
<i>10:30~12:00</i>	<i>4 Sessions report simultaneously</i>
<i>12:00~13:30</i>	<i>Lunch at conference Hall</i>
<i>13:30~15:00</i>	<i>4 Sessions Report simultaneously</i>
<i>15:00~15:30</i>	<i>Coffee break at conference Hall</i>
<i>15:30~17:30</i>	<i>4 Sessions Report simultaneously</i>
<i>17:30~19:30</i>	<i>Supper at Longhai Hotel</i>
<i>Thursday, Sep.14,2006</i>	
<i>08:30~9:00</i>	<i>Conference ceremony</i>
<i>9:00~10:00</i>	<i>Keynote and invited lectures</i>
<i>10:00~10:30</i>	<i>Coffee break at conference Hall</i>
<i>10:30~12:00</i>	<i>Keynote and invited lectures</i>
<i>12:00~13:30</i>	<i>Lunch at conference Hall</i>
<i>13:30~15:00</i>	<i>Keynote and invited lectures</i>
<i>15:00~15:30</i>	<i>Coffee break at conference Hall</i>
<i>15:30~17:30</i>	<i>Keynote and invited lectures</i>
<i>17:30~19:30</i>	<i>Banquet at Longhai Hotel</i>

***Attention:***

- 1) Poster papers should be available at 14:00 on sep.13 to 18:00 on sep.14***
- 2) Keynote and invited lectures are presented at Room 311, and Session1 at Room 303, Session2 at room 402, session3 at room 502, Session4 at room 625 in the conference building. 303 means the No.03 room on third floor, respectively.***

**Thursday, Sep.14, 2006**

**Keynote and invited Lectures**

**Chairs : Jinping Ou, Oleg Vitrik**

8:30—9:00	<b>Conference Ceremony</b>
9:00-9:30	<b>Quantum Electronics 50<sup>th</sup> jubilee</b> Krokhin Oleg, Academician of Russian Academy of Science. P.N. Lebedev Physical Institute, Moscow, Russia
9:30-10:00	<b>Optic fiber Bragg-grating-based sensing technologies and their applications in structural health monitoring</b> Jinping Ou, Academician, President Dalian University of Technology, Harbin Institute of Technology
10:00-10:30	<b>Coffee Break</b>
10:30-11:00	<b>Structural Health Monitoring of Bridges with Optical Fiber Sensors</b> Farhad Ansari Professor, Dean Civil and Materials department, Illinois University at Chicago
11:00-11:30	<b>Prediction of Complex Time Series Based on Mapping Function</b> Toshihiro Shimizu Prof. Dr. Dean Graduate School of Engineering, Kokushikan University, Tokyo, Japan
11:30-12:00	<b>Distributed fiber sensors and applications in civil structures</b> Xiaoyi Bao Professor University of Ottawa, Canada
12:00-13:30	<b>Lunch time</b>
<b>Chairs : Xiaoyi Bao, Farhad Ansari</b>	
13:30-14:00	<b>Fiber optical point and distributed sensors, and smart structures for technical object diagnostics and physical field monitoring</b> Oleg B. Vitrik Y.N. Kulchin Far Eastern Branch of Russian Academy of Science
14:00-14:30	<b>Innovative mini fiber optic and PLC components for fiber sensing applications</b> Hongdu Liu , Optics & Photonics Center, Peking University, Beijing, China
14:30-15:00	<b>Polarization effects at contradirectional interaction on reflection holographic gratings in cubic photorefractive crystals</b> Stanislav M. Shandarov State University of Control System sand Radioelectronics, Russia

15:00-15:30	<b>Coffee Break</b>
15:30-15:55	<b>Optical Bistability in Erbium-Doped Fiber Ring Resonators</b> <a href="#">Chunfei Li</a> , Harbin Institute of Technology, Harbin, China.
15:55-16:20	<b>Concepts for Very High Efficiency Solar Photovoltaic Cells</b> <a href="#">Alan Kost</a> , Optical Sciences Center, University of Arizona, USA.
16:20-16:45	<b>Interaction of Partially Coherent Laser Radiation with Matter</b> <a href="#">Alexander Starodub</a> P.N.Lebedev Physical Institute of Russian Academy of Sciences
16:45-17:10	<b>Analysis of the nonlinear mechanisms of light beam absorption in transparent materials under ultrashort pulse laser action</b> <a href="#">Zavestovskaya Irina</a> , P.N. Lebedev Physical Institute, Moscow, Russia
17:10-17:35	<b>Photo-Echo Technology for an One-Way Quantum Computer</b> <a href="#">Eduard Manykin</a> , Head of MEPHI
17:35~20:30	<b>Banquet</b>

**Attention:**

- 1) All the lectures must be presented in English.
- 2) Keynote lecture is limited 25 minutes for presentation and 5 minutes for questions. The invited lecture is limited 20 minutes for presentation and 5 minutes for questions.

**Wednesday, Sep.13, 2006**

**Session 1: Interaction of laser radiation with matter and nonlinear optics**

**Room 303**

**Chairs : Chunfei Li, Stanislav M. Shandarov**

<b>8:30~8:45</b>	<b>Distribution of a light pulses from several oscillations in a untuned nonlinear medium (#007)</b> Voitjk M. I., Kostina G. V., Livashvili A. I. Far East State Transport University
<b>8:45~9:00</b>	<b>Evaluation and testing of semiconductor laser reliability in optic system (#014)</b> Tang Wenyan, Fan Xianguang, Sun Heyi Harbin Institute of Technology
<b>9:00~9:15</b>	<b>Interaction of Partially Coherent Laser Radiation with Matter (#109)</b> <a href="#">A.N.Starodub</a> , <a href="#">S.I.Fedotov</a> , <a href="#">A.A.Kozhevnikova</a> , <a href="#">B.V.Kruglov</a> , <a href="#">S.V.Mal'kova</a> , <a href="#">M.V.Osipov</a> , <a href="#">V.N.Puzyrev</a> , <a href="#">A.T.Sahakyan</a> , <a href="#">B.L.Vasin</a> , <a href="#">O.F.Yakushev</a> P.N.Lebedev Physical Institute of the RAS,Russia
<b>9:15~9:30</b>	<b>Experimental and theoretical research of propagation of the double-circle laser beam in Kerr-medium (#019)</b> <a href="#">Shen Chang-yu</a> <sup>a</sup> , <a href="#">Chen fei</a> <sup>a</sup> , <a href="#">Yin Bao-yin</a> <sup>b</sup> , <a href="#">Miao Run-cai</a> <sup>b</sup> a,China JiLiang University; b,Shanxi Normal University
<b>9:30~9:45</b>	<b>Third-order nonlinear optical properties and optical limiting property of metallonaphthalocyanine (#055)</b> <a href="#">Chunying He</a> <sup>a,b</sup> , <a href="#">Wubiao Duan</a> <sup>a</sup> , <a href="#">Yiqun Wu</a> <sup>a</sup> , <a href="#">Yuxiao Wang</a> <sup>b</sup> , <a href="#">Xueru Zhang</a> <sup>b</sup> , <a href="#">Yinglin Song</a> <sup>b</sup> a,Lab. of Functional Materials, Heilongjiang University; b,Department of Applied Physics, Harbin Institute of Technology,China
<b>9:45~10:00</b>	<b>Nonlinear Errors of Passive Homodyne Polarized Laser Interferometer (#085)</b> <a href="#">YANG Jun</a> , <a href="#">WU Bing</a> , <a href="#">LIU Zhi-hai</a> , <a href="#">YUAN Li-bo</a> Photonics Research Center, College of Science, Harbin Engineering University,China
<b>10:00~10:30</b>	<b>Coffee Break at Conference Hall</b>

10:30~10:45	<p><b>Resonator-enhanced low power all-optical switch with a nonlinear ratio-variable coupler (#151)</b>  Li Li<sup>1,2</sup>, Junqing Li<sup>2</sup>, Xinlu Zhang<sup>1</sup>, Lixue Chen<sup>2</sup>  1,Harbin Engineering University; 2,Harbin Institute of Technology,China</p>
10:45~11:00	<p><b>Thermal behavior of thin metal films irradiated by ultra-short pulse laser (#104)</b>  Hao qiulong, Zhao gang, Qi wenzong  Sichuan University,China</p>
11:15~11:30	<p><b>An improvement of the 4f coherent imaging system for measuring the nonlinear refraction (#107)</b>  Yunbo Li<sup>a</sup>, Xueru Zhang<sup>a</sup>, Yu Wang<sup>b</sup>, Yinglin Song<sup>a</sup>  a,Harbin Institute of Technology; b,Suzhou University,China</p>
11:30~11:45	<p><b>Large aperture nonlinear elements from KDP and DKDP crystals – making and using (#158)</b>  A.A.Babin  Institute of Applied Physics Russian Academy of Science, Russia</p>
12:00~13:30	<p><b>Lunch at Conference Hall</b></p>



**Wednesday, Sep.13, 2006**

**Session 2 : Micro- and Nano-electronic structures for optoelectronics**

**Room No. 402**

**Chairs : Zavestovskaya Irina, Guohui Lv**

<b>08:30~08:45</b>	<b>Microring resonator-coupled Mach-Zehnder interferometer as trigger pulse generator optical differentiator and integrator (#016)</b> Li Li <sup>1,2</sup> , Xinlu Zhang <sup>1</sup> , Pingping Sun <sup>1</sup> , Lixue Chen <sup>2</sup> 1, Harbin Engineering University; 2, Harbin Institute of Technology, China
<b>08:45~09:00</b>	<b>Influence of composition ratio on the nonlinear optical properties of AgGa<sub>1-x</sub>In<sub>x</sub>Se<sub>2</sub> and Hg<sub>1-x</sub>Cd<sub>x</sub>Ga<sub>2</sub>S<sub>4</sub> (#020)</b> Guangjü Ji <sup>1</sup> , Tao Shen <sup>1</sup> , Jinjer Huang <sup>1</sup> , Bo Zhao <sup>1</sup> , Yu. M. Andreev <sup>2</sup> , V. V. Atuchin <sup>3</sup> , Gregory Lanskiy <sup>2</sup> 1, Harbin University of Science and Technology, China; 2, Institute of Monitoring of Climatic and Ecological Systems SB RAS, Academicheskii Ave., Russia; 3, Laboratory of Optical Materials and Structures, Institute of Semiconductor Physics, Russia
<b>09:00~09:15</b>	<b>Effect of In Ions on Photorefractive Properties in Fe:In:LiNbO<sub>3</sub> Crystals (#021)</b> Tao Zhang, Tao Geng, Wei-Min Sun Harbin Engineering University, China
<b>09:15~09:30</b>	<b>Transmission characteristic of photonic crystals coupler (#028)</b> Guan Chunying, Xie Dequan, Yuan Libo College of Science, Harbin Engineering University, China
<b>09:30~09:45</b>	<b>Waveguiding in air with left-handed material (#038)</b> Xie Dequan, Guan Chunying, Yuan Libo Photonics Research Center, college of Science, Harbin Engineering University, China
<b>09:45~10:00</b>	<b>Experimental study on femtosecond laser micromachining of grooves in spring steel (#041)</b> Qi litao, Wu Xuefeng, Wang Yang Dept. of Mechanical Manufacturing and Automation, Harbin Institute of Technology, China

10:00~10:30	<b>Coffee break at Conference Hall</b>
10:30~10:45	<p><b>Optical limiting properties and nonlinearity of a novel Cubane-like shaped Mo/S/Cu cluster polymer (#061)</b>  <a href="#">Jinbei Xu<sup>a</sup></a>, <a href="#">Nanchun Liu<sup>a</sup></a>, <a href="#">Jianxing Fang<sup>a</sup></a>, <a href="#">Yinglin Song<sup>a</sup></a>, <a href="#">Jianping Lang<sup>b</sup></a>, <a href="#">Junyi Yang<sup>a</sup></a>, <a href="#">Zhigang Ren<sup>b</sup></a>  a,School of Physical Science and Technology, Suzhou University;  b,Department of Chemistry and Chemical Engineering, Suzhou University, China</p>
10:45~11:00	<p><b>Nanosecond Reverse Saturable Absorption in metal cluster <i>cis</i>-Cp*<sub>2</sub>Mo<sub>2</sub>S<sub>4</sub>Cu<sub>2</sub>I<sub>2</sub>·(CH<sub>2</sub>Cl<sub>2</sub>)<sub>2</sub> Solution (#062)</b>  <a href="#">Junyi Yang<sup>a</sup></a>, <a href="#">Jihua Gu<sup>a</sup></a>, <a href="#">Shiguang<sup>b</sup></a>, <a href="#">Yunbo Li<sup>b</sup></a>, <a href="#">Yinglin Song<sup>a</sup></a>, <a href="#">Zhigang Ren<sup>c</sup></a>, <a href="#">Jianping Lang<sup>c</sup></a>  a,School of Physical Science and Technology Suzhou University; b,Harbin Institute of Technology;  c,School of Chemistry and Chemical Engineering, Suzhou University, China</p>
11:00~11:15	<p><b>Pulse LDA-Pumped Passively Q-Switched Mode Locked Nd:YVO<sub>4</sub> Laser with a GaAs Saturable Absorber (#064)</b>  <a href="#">Xiaojuan Liu</a>, <a href="#">Fu Rulian</a>  Institute of Modern Optics, Nankai University,China</p>
11:15~11:30	<p><b>Highly birefringent index-guiding photonic crystal fibers with two big circular holes in elliptical-air-hole cladding (#074)</b>  <a href="#">Yang Yue</a>, <a href="#">Guiyun Kai</a>, <a href="#">Zhi Wang</a>, <a href="#">Long Jin</a>, <a href="#">Tingting Sun</a>, <a href="#">Yunfei Lu</a>, <a href="#">Chunshu Zhang</a>, <a href="#">Yan Li</a>, <a href="#">Jianguo Liu</a>, <a href="#">Yange Liu</a>,  <a href="#">Shuzhong Yuan</a>, <a href="#">Xiaoyi Dong</a>  Institute of Modern Optics, Nankai University,China</p>
11:30~11:45	<p><b>Polarization characteristics of the large-mode-area fiber amplifier applied in coherent combination (#076)</b>  <a href="#">Zhancheng Guo<sup>1,2</sup></a>, <a href="#">Shenggui Fu<sup>1</sup></a>, <a href="#">Yange Liu<sup>1</sup></a>, <a href="#">Xiujie Jia<sup>1</sup></a>, <a href="#">Libin Si<sup>1</sup></a>, <a href="#">YanLi Jin<sup>1</sup></a>, <a href="#">Shuzhong Yuan<sup>1</sup></a>, <a href="#">Xiaoyi Dong<sup>1</sup></a>  1,Institute of Modern Optics Nankai University; 2, Physics Department of Innermongolia Norm University, China</p>
11:45~12:00	<p><b>Temperature influence on all-optical poling of glasses (#077)</b>  <a href="#">V.A. Smirnov</a>, <a href="#">L.I. Vostrikova</a>, <a href="#">I.A. Ishimov</a>  Institute of Semiconductor Physics SB RAS, Russia</p>
12:00~13:30	<b>Lunch at Conference Hall</b>
<b>Chairs: <a href="#">Eduard Manykin</a> <a href="#">I. Prosanov</a></b>	

13:30~13:45	<p><b>Study on holographic image storage and reconstruction in azo-dye-doped liquid-crystal films (#084)</b>  <a href="#">Hongyue Gao, Zhongxiang Zhou</a>  Department of Applied Physics, Harbin Institute of Technology, China</p>
13:45~14:00	<p><b>Temperature dependences of optical absorption and its light-induced changes in sillenite crystals (#096)</b>  <a href="#">S. M. Shandarov<sup>a</sup>, L. E. Polyakova<sup>a</sup>, A. E. Mandel<sup>a</sup>, M. G. Kisteneva<sup>a</sup>, J. Vidal<sup>a</sup>, Yu. F Kargin<sup>b</sup>, A. V. Egorysheva<sup>b</sup></a>  a, State University of Control Systems and Radioelectronics;  b, Kurnakov Institute of General and Inorganic Chemistry of the Russian Academy of Sciences, Russian</p>
14:00~14:15	<p><b>Cumulative UV-Monitoring using chemically modified ZnO or TiO<sub>2</sub> layers (#155)</b>  <a href="#">I. Prosanov<sup>1</sup>, P. Bogdanoff<sup>2</sup>, S. Fiechter<sup>2</sup>, H. Tributsch<sup>2</sup></a>  1, Far Eastern Transport University, Russia; 2, Hahn-Meitner-Institut, Dept. Solare Energetik, Germany</p>
14:15~14:30	<p><b>Formation of azimuthally and radially polarized Bessel light beams in one-dimensional photonic crystals having photonic crystals having photorefractive properties (#045)</b>  <a href="#">S. Kurilkina<sup>a</sup>, V. Belyi<sup>a</sup>, N. Kazak<sup>a</sup>, S. Shandarov<sup>b</sup>, P. Ropot<sup>a</sup></a>  a, Institute of Physics of NAS Belarus; b, Tomsk State University of Control Systems and Radioelectronics, Russia</p>
14:30~14:45	<p><b>The Influence of Forms and Sizes of Heterogeneous Systems on the Band Bending in AgBr-AgI (#112)</b>  <a href="#">A.V. Khanefit, Kemerovo State University</a></p>
14:45~15:00	<p><b>New selfdeveloped holographic media – dichromated gelatin with isopropanol (#094)</b>  <a href="#">Alexander N. Malov, Anna V. Neupokoeva</a>  Irkutsk Air Force Engineering Higher School – Military Institute, Russia</p>
15:00~15:30	<p><b>Coffee Break at Conference Hall</b></p>
15:30~15:45	<p><b>Atomic motion in the thermal field of dissipative matter near the surface of material (#002)</b>  <a href="#">B.B.Averbukh, I.B.Averbukh</a>  Tihooceansky state university, Khabarovsk, Russia</p>
15:45~16:00	<p><b>Study on trap states in polyvinylcarbazole by thermally stimulated current spectrum (#069)</b>  <a href="#">Lijuan He, Ximing Wang, Wenlong Zhang, Xuan Wang</a>  Harbin university of Science and Technology, China</p>

**Wednesday, Sep.13, 2006**

**Session 3 : Coherent optics and optic methods for measurement and information processing**

**Room No. 502**

**Chairs : Hong Zhao, Xiaoyi Bao**

<b>08:30~08:45</b>	<b>The backscattering property experiment research of wake bubbles (#004)</b> Su Liping, Zhang Weijiang, Ren Deming, Hu Xiaoyong Harbin Institute of Technology, China
<b>08:45~09:00</b>	<b>Algorithm study of Phase diverse speckle corrective technique (#008)</b> Zhang Aihong, Wang Tingting, Li Zhiyang, Zhang Jinfeng, Liang Bo Harbin Institute of Technology,China
<b>09:00~09:15</b>	<b>Successive elimination motion estimation algorithm based on multi-revolution (#009)</b> Zhang Bo <sup>a</sup> , Zhao Ya-qin <sup>b</sup> , Zhong Zhi <sup>b</sup> a,Harbin Engineering University; b,Harbin Institute of Technology,China
<b>09:15~09:30</b>	<b>An optical measurement method about pulse laser line width (#022)</b> Baoan Song, Weijiang Zhao, Deming Ren, Hailong Zhao, Shuang Mo Harbin Institute of Technology,China
<b>09:30~09:45</b>	<b>Study on Memories of Temporal Lobes and the Principles of Lateralization Using a Near Infrared Spectroscopy (#024)</b> Katsutoshi Kamakura Department of Electrical Engineering, Kokushikan university,Russia
<b>09:45~10:00</b>	<b>Experimental research on Water-jet guided Laser Processing (#032)</b> Li Ling, Wang Yang, Yang Lijun, Chu Jiecheng Dept. of Mechanical Manufacturing and Automation,Harbin Institute of Technology,China
<b>10:00~10:30</b>	<b>Coffee Break at Conference Hall</b>

10:30~10:45	<b>Estimation and Optical Diagnostics of High Temperature Air Combustion (#034)</b> Ken Kishimoto Kokushikan University, Japan
10:45~11:00	<b>Simulation and Experimental Research on Spherical Dome by 3D Laser Forming of Square Sheet (#039)</b> Yang Lijun, Wang Yang Dept. of mechanical manufacture and automation, Harbin Institute of Technology, China
11:00~11:15	<b>High resolution interrogation technique based on linear photodiode array spectrometer for fiber Bragg grating Sensors (#163)</b> Songwei Zhang, Institute of Semiconductors, Chinese Academy of Sciences
11:15~11:30	<b>Correlation method of processing single fiber multimode interferometer (SFMI) signals using a charge coupled device (#047)</b> Yu.N.Kulchin, O.B.Vitrik, A.D.Lantsov. Automation and Control Processes of Far Eastern Branch of Russian Academy of Sciences
11:30~11:45	<b>Application of modified Kohonen's network to optimization problems (#049)</b> Toshihiro Shimizu Kokushikan University, Japan
11:45~12:00	<b>Experimental research on power spectrum processing in joint transform correlator image recognition (#113)</b> SUN Weimin, YANG Yang College of Science, Harbin Engineering University,China
12:00~13:30	<b>Lunch at Conference Hall</b>
<b>Chairs: Farhad Ansari, Toshihiro Shimizu</b>	
13:30~13:45	<b>The Application of Data Fusion in Optical Theodolite Coordinate Measurement System (#070)</b> Zhimin Tong, Wenyan Tang Department of Automation Measurement and Control, Harbin Institute of Technology,China
13:45~14:00	<b>Speckle feedback injected erbium-doped fiber ring laser for velocity detecting (#071)</b> Daofu Han <sup>a,b</sup> , Ming Wang <sup>a</sup> , Junping Zhou <sup>a</sup> a, Nanjing Normal University; b, Nanchang University,China

14:00~14:15	<p><b>A study on building wireless acceleration sensor network for global monitoring on cable-stayed bridge of Songhua River (#165)</b>  Yan Yu<sup>a,b</sup>, Jinping Ou<sup>a</sup>, Harbin Institute of Technology; b, Tsinghua Unigroup LTD, China</p>
14:15~14:30	<p><b>Theoretical analysis of multi-probe confocal 3-D detection system (#078)</b>  LI Hai-yan, PU Zhao-bang Optics Instrument &amp; Automation Lab, Harbin Institute of Technology, China</p>
14:30~14:45	<p><b>Detection blind area of infrared sensors for moving target detection (#080)</b>  Kexin LI, Wei ZHANG, Chunfeng WU  Research Center for Space Optical Engineering, Harbin Institute of Technology, China</p>
14:45~15:00	<p><b>Approach to retina optical coherence tomography image processing (#087)</b>  Jiali Yuan<sup>a</sup>, Ruihua Liu<sup>b</sup>, Gao Xuan<sup>c</sup>, Jun Yang<sup>a</sup>, Libo Yuan<sup>a</sup>  a, Harbin Engineering University; b, The First Affiliated Hospital of Harbin Medicine University;  c, The Second Affiliated Hospital of Harbin Medicine University, China</p>
15:00~15:30	<p><b>Coffee Break at Conference Hall</b></p>
15:30~15:45	<p><b>Study on the passive-drawn fiber optic liquid analysis technique (#088)</b>  Zhou Ai, Sun Jiaying, Yuan Libo, Xiao Hui  Harbin Engineering University, China</p>
15:45~16:00	<p><b>Experimental modeling of high accuracy measurement of circular and radial harmonics (#095)</b>  N. N. Evtikhiev, S.N. Litovchenko, A.V. Shevchuk, R.S. Starikov, E.Yu. Zlokazov  Moscow Engineering Physics Institute, Russia</p>
16:00~16:15	<p><b>Research on Frame Capture of High Speed and Image Storage (#106)</b>  DongHao, HuoJu Harbin Institute of Technology, China</p>
16:15~16:30	<p><b>Laser interferometer used for nanometer vibration measurements (#108)</b>  Sun Jiaying, Yang Jun, Liu Zhihai, Yuan Libo Harbin Engineering University, China</p>
16:30~16:45	<p><b>Grain Effect on image-forming of Optical System (#124)</b>  WU Dakun, ZHOU Yanping, GUO Song  Harbin institute of technology, China</p>
16:45~17:00	<p><b>A Star Tracking Algorithm Suitable for Star Sensor (#153)</b>  Li Baohua<sup>a</sup>, Zhang Yingchun<sup>b</sup>, Li Huayi<sup>b</sup>, Wang Changhong<sup>a</sup>  a, Space Control and Inertial Technology Research Center, Harbin Institute of Technology; b, Research Center of</p>



**Wednesday, Sep.13, 2006**

**Session4 : Optical fiber sensors and their applications**

**Room No. 625**

**Chairs : Zhi Zhou, Oleg Vitrik**

<b>08:30~08:45</b>	<b>Analysis and Simulation of Optical Polarization Fluctuation of Interferometric Fiber Optic Gyroscope (#003)</b> Hong Gu <sup>1,2</sup> , GongLiu Yang <sup>2</sup> , Ye Yang <sup>2</sup> , HaiNa Weng <sup>2</sup> , QiDa Zhao <sup>1</sup> 1, Institute of Modern Optics, Nankai University, China; 2, Tianjin Navigation Instrument Research Institute, China
<b>08:45~09:00</b>	<b>Study on the demodulation technique of Fiber Grating Sensor Arrays based on a Tunable Pulsed Laser (#013)</b> Dongbo <sup>a</sup> , ZhaoQida <sup>a</sup> , HeShiya <sup>b</sup> , HuShuyang <sup>b</sup> , Guotuan <sup>a</sup> XueLifang <sup>a</sup> a, Nankai University; b, Beijing University of Technology, China
<b>09:00~09:15</b>	<b>Intensity-referenced and temperature-independent pressure sensing based a strain-chirped fiber Bragg grating (#025)</b> Tuan Guo, Qida Zhao, Lifang Xue, Junfeng Lv, Hong Kang, Bo Dong, Shuhong Li, Hong Gu, Guiling Huang, Xiaoyi Dong Institute of Modern Optics, Nankai University, China
<b>09:15~09:30</b>	<b>Temperature-independent FBG displacement measurement based on bandwidth modulation and optical power detection (#026)</b> Tuan Guo, Qida Zhao, Hong Kang, Junfeng Lv, Lifang Xue, Shuhong Li, Bo Dong, Hong Gu, Guiling Huang, Xiaoyi Dong Institute of Modern Optics, Nankai University, China
<b>09:30~09:45</b>	<b>A Distributed Temperature-sensing System based on FBG (#035)</b> Yu Xiaoyu, Zhao Hong, Liu Yan Harbin University of Science and Technology, China
<b>09:45~10:00</b>	<b>A novel fiber-mercury temperature sensor (#115)</b> ZHANG Wentao <sup>1,2</sup> , DAI Jingyun <sup>1</sup> , SUN Baochen <sup>1</sup> , DU Yanliang <sup>1</sup> 1, Shijiazhuang Railway Institute; 2, Institute of Semiconductors, Chinese Academy of Sciences, China
<b>10:00~10:30</b>	<b>Coffee Break at Conference Hall</b>



10:30~10:45	<b>An Optical Voltage Sensor Based on the Theory of Fabry-Perot Interferometer (#037)</b> Liu Yan, Zhao Hong, Yu Xiaoyu Harbin University of Science and Technology, China
10:45~11:00	<b>All-Fiber System based on Fabry-Perot Sensor for Partial Discharges in transformer Oil (#042)</b> Min Li, Hong Zhao Harbin University of Science and Technology, China
11:00~11:15	<b>Temperature Insensitive wheel-type FBG pressure sensor (#043)</b> Jianhua Luo, Bo Liu, Guiyun Kai, Shuzhong Yuan, Xiaoyi Dong Institute of Modern Optics, Nankai University, China
11:15~11:30	<b>Development of the optical instrument transformer for DC voltage measurement (#050)</b> Zhu Pingping, Zhang Guixin Tsinghua University, China
11:30~11:45	<b>Study of FBG Sensing Demodulation in AC Voltage Sensing with CWDM (#057)</b> Zhang Jian <sup>a,b</sup> , Zhao Hong <sup>a</sup> , Xiong Yan-ling <sup>a</sup> , Zhang Zhen-peng <sup>a</sup> a, Harbin University of Science and Technology; b, Harbin Normal University, China
11:45~12:00	<b>AC Current Sensing with Fiber Bragg Grating (#056)</b> Zhao Hong <sup>a</sup> , Zhang Jian <sup>a,b</sup> , Xiong Yan-ling <sup>a</sup> , Zhang Zhen-peng <sup>a</sup> a, Harbin University of Science and Technology; b, Harbin Normal University, China
12:00~13:30	<b>Lunch at Conference Hall</b>
<b>Chairs: Alexis Mendenz, Zhi Zhou</b>	
13:30~13:45	<b>FBG Current Sensor Based On CWDM Demodulation (#058)</b> Zhao Hong <sup>1</sup> , Xiong Yanling <sup>1</sup> , Zhang Jian <sup>2</sup> , Zhao Haijun <sup>1</sup> 1, Harbin University of Science and Technology; 2, Harbin Normal University, China
13:45~14:00	<b>A Fiber Bragg Grating Strain Sensor based on ASE Light Source Demodulation Technology (#059)</b> Xiong Yanling <sup>1</sup> , Yang Zhonghua <sup>2</sup> , Zhao Hong <sup>1</sup> , Zhang Jian <sup>2</sup> , Xiao Mengben <sup>1</sup> 1, Harbin University of Science and Technology; 2, Harbin Normal University, China
14:00~14:15	<b>Fiber Bragg Grating Sensors Array Based on Optical Frequency Domain Reflectometry Technology (#060)</b>

	Xiong Yanling, He Lijuan, Chen Tao, Wang Xuan, Yang Wenlong Applied Science College, Harbin University of Science and Technology, China
14:15~14:30	<b>Fiber active sensing of DBR laser with self-mixing interference (#066)</b> Junping Zhou, Ming Wang, Daofu Han Nanjing Normal University, China
14:30~14:45	<b>Temperature-insensitive Strain Sensor based on the Measurement of Reflected Bandwidth from Tapered Fiber Grating by a Scanning FBG (#075)</b> Xianhui Yang <sup>a</sup> , Qihua Zhang <sup>b</sup> , Yongsen Yu <sup>c</sup> , Sheng-he Sun <sup>a</sup> a, Dept. of Automatic Test and Control, Harbin Institute of Technology; b, Dept. of Astronautic Engineering and Mechanics, Harbin Institute of Technology; c, State Key Laboratory on Integrated Opto-electronics, Jilin University, China
14:45~15:00	<b>The design and fabrication of optical fiber MEMS pressure sensor (#086)</b> Ge Yixian, Wang Ming, Rong Hua, Chen Xuxing Nanjing Normal University, China
15:00~15:30	<b>Coffee Break at Conference Hall</b>
15:30~15:45	<b>A novel fiber optic fabry-perot temperature sensor (#099)</b> ZHANG Wentao <sup>1,2</sup> , SUN Baochen <sup>1</sup> , DAI Jingyun <sup>1</sup> , DU Yanliang <sup>1</sup> 1, Shijiazhuang Railway Institute; 2, Institute of Semiconductors, Chinese Academy of Sciences, China
15:45~16:00	<b>Investigation on pressure sensitivity of fiber optic mandrel hydrophone (#100)</b> ZHANG Wentao, LIU Yuliang, LI Fang Institute of Semiconductors, Chinese Academy of Sciences, China
16:00~16:15	<b>A portable interrogation system based on the linear InGaAs photodiode array and volume phase grating (#111)</b> Guoyu Li, Jian Zhang, Bo Liu, Shuzhong Yuan, Guiyun Kai, Xiaoyi Dong Nankai University, China
16:15~16:30	<b>800nm Fiber Bragg Grating Sensing Interrogation System Using TFBG and CCD array (#114)</b> Bo Liu <sup>1</sup> , Rui Suo <sup>2</sup> , Kaiming Zhou <sup>2</sup> , Long Jin <sup>1</sup> , Jian Zhang <sup>1</sup> , Yange Liu <sup>1</sup> , Guiyun Kai <sup>1</sup> , Xiaoyi Dong <sup>1</sup> 1, Nankai University, China; 2, Photonics Research Group, ASTON Univ. Birmingham, UK
16:30~16:45	<b>Fiber Optic Vibration Sensor Based On Over-coupled Fused Coupler (#134)</b> Jun Chang <sup>a,b</sup> , Liangzhu Ma <sup>c</sup> , Tongyu Liu <sup>a,c</sup> , Hongchun Wang <sup>c</sup> , Dianheng Huo <sup>c</sup> , Jiasheng Ni <sup>c</sup> , Zhidong Shi <sup>c</sup> a, Laser Institute, Shandong Academy of Science; b, Shandong University; c, Shandong Micro-Sensor Photonics Ltd, China

<b>16:45~17:00</b>	<b>The amplification of stimulated Brillouin scattering in backward pumped S band distributed fiber Raman amplifier (#147)</b> Honglin LIU <sup>a</sup> , Zaixuan ZHANG <sup>a</sup> , Chenxia LI <sup>a,b</sup> , Haifeng XU <sup>a,b</sup> , Jianfeng WANG <sup>a</sup> , INSOO S.KIM <sup>c</sup> a,China Jiliang University; b,University of Shanghai for Science and Technology; c,Korea Electrotechnology Research Institute,Korea
<b>17:30~19:30</b>	<b>Supper at Longhai Hotel</b>

# Poster Papers

Paper No.

*Poster papers should be available at 14:00 on sep.13 to 18:00 on sep.14*

001	<b>Conoscopic methods of optic crystals' research (#001)</b> Alexander V. Syuy <sup>a</sup> , Vladimir I. Stroganov <sup>a</sup> , Victor V. Krishtop <sup>a</sup> , Vladimir V. Lihtin <sup>b</sup> a, Far Eastern State Transport University, Russia; b, Komsomolsk-on-Amur State Technical University, Russia
002	<b>Atomic motion in the thermal field of dissipative matter near the surface of material (#002)</b> B.B.Averbukh, I.B.Averbukh Tihooceansky state university, Khabarovsk, Russia
003	<b>Distribution of a light pulses from several oscillations in a untuned nonlinear medium (#007)</b> Voitjk M. I., Kostina G. V., Livashvili A. I. Far East State Transport University
004	<b>Recording of incoherent reflective Volume Fourier Holograms for Optical Correlators (#023)</b> Vladislav G. Rodin, Sergey N. Starikov Moscow Engineering Physics Institute, Russia
005	<b>Stabilized fiber optic sensor for remote measuring angle of inclination (#029)</b> Yuri N. Kulchin, Oleg B. Vitrik, Anton V. Dyshlyuk Institute for Automation and Control Processes, Russia
006	<b>Performance analysis of an in-line optical fiber analysis system for well crude oil (#033)</b> Dehuan Meng, Haifeng Xuan, Min Zhang, Shurong Lai, Yanbiao Liao Department of Electronic Engineering, Tsinghua University, China
007	<b>Theoretical study of transient thermal nonlinear refraction induced by nonlinear optical absorption (#036)</b> Weiyang Jiao, Xueru Zhang, Yuxiao Wang Yinglin Song Physics department, Harbin Institute of Technology, China
008	<b>Formation of azimuthally and radially polarized Bessel light beams in one-dimensional photonic crystals having photonic crystals having photorefractive properties (#045)</b> S.Kurilkina <sup>a</sup> , V.Belyi <sup>a</sup> , N.Kazak <sup>a</sup> , S.Shandarov <sup>b</sup> , P.Ropot <sup>a</sup> a, Institute of Physics of NAS Belarus; b, Tomsk State University of Control Systems and Radioelectronics, Russia
009	<b>Example of Using Small Falling Weight Deflectometer (FWD) for Earth Structures and Low Cost Road Pavement in Japan</b>

	Hideaki SHIBATA <sup>a</sup> , Yasutomo TANAKA <sup>a</sup> , Isamu ONO <sup>a</sup> and Tsuyoshi OKANO <sup>b</sup> a, Kokushikan University; b, Tokyo Sokki Kenkyujo Co., Ltd. Japan
010	<b>The Research of Propagation Constant in Grapefruit Microstructure Optical Fiber with Lateral Pressure (#052)</b> Haitao Liu <sup>1</sup> , Weigang Zhang <sup>1,2</sup> , Qinchang Tu <sup>1</sup> , Meng Jiang <sup>1</sup> , Zhi Wang <sup>1</sup> , Yange Liu <sup>1</sup> , Guiyun Kai <sup>1</sup> , Xiaoyi Dong <sup>1</sup> 1, Institute of Modern Optics, Nankai University; 2, Key Laboratory of Semiconductor Materials Science Institute of Semiconductors, Chinese Academy of Sciences, China
011	<b>Research of Photoprocesses in Compositions the Polymer-Semiconductor (#068)</b> Shtarev D.S. <sup>1</sup> , Prosanov I.Ju. <sup>1</sup> , Tsiganenko A.A. <sup>2</sup> 1, Far East state university of means of communication; 2, Sankt-Petersburg state university, Russia
012	<b>Research on Temperature Independent FBG Obliquity Sensor (#081)</b> Cao Ye <sup>a</sup> , Ma xiu-rong <sup>a</sup> , Fang wei <sup>a</sup> , Kai gui-yun <sup>b</sup> , Dong xiao-yi <sup>b</sup> a, Tianjin University of Technology; b, Nankai University, China
013	<b>LPCC invariant correlation filters: variants of application (#082)</b> S.Yu. Shelestov, A.V. Shevchuk, S.I. Sirotkin, R.S. Starikov Moscow Engineering Physics Institute, Russia
014	<b>Optoelectronic vector-matrix processors: technical limitations (#083)</b> R.S. Starikov Moscow Engineering Physics Institute, Russia
015	<b>Digital Foucault Knife as a phase manipulation in the Walsh-Hadamard Image Transformations (#093)</b> Andrey V. Bronnikov, Alexander N. Malov, Aleksandr N. Onackiy Irkutsk Air Force Engineering Higher School – Military Institute, Russia
016	<b>New selfdeveloped holographic media – dichromated gelatin with isopropanol (#094)</b> Alexander N. Malov, Anna V. Neupokoeva Irkutsk Air Force Engineering Higher School – Military Institute, Russia
017	<b>The Influence of Forms and Sizes of Heterogeneous Systems on the Band Bending in AgBr-AgI (#112)</b> A.V. Khanef, A.S. Poplavnoi, B.A. Sechkarev, L.V. Sotnikova Kemerovo State University, Russia

018	<p><b>Study on the BRDF Application (#117)</b>  <a href="#">QI Chao<sup>a,b</sup></a>, <a href="#">YANG Chun-ling<sup>b</sup></a>, <a href="#">DAI Jing-min<sup>b</sup></a>, <a href="#">ZHAO Guo-liang<sup>a</sup></a>  a,Harbin Engineering University; b,Harbin Institute of Technology,China</p>
019	<p><b>Goos-Hänchen shift in anisotropic left-handed materials (#118)</b>  <a href="#">Jiang Yongyuan</a>, <a href="#">Zhang Yongqiang</a>, <a href="#">Fu Yanxia</a>, <a href="#">Hou Chunfeng</a>, <a href="#">Zhou Zhongxiang</a>, <a href="#">Sun Xiudong</a>  Department of Physics, Harbin Institute of Technology,China</p>
020	<p><b>The Noise Analysis and Digital Realization of Arctangent Approach of PGC Demodulation for Optic Interferometric Sensors (#129)</b>  <a href="#">Fukun Liao</a>, <a href="#">Min Zhang</a>, <a href="#">Liwei Wang</a>, <a href="#">Yanbiao Liao</a>  Department of Electronic Engineering, Tsinghua University,China</p>
021	<p><b>Research on an improved passive demodulation method for optical fiber interferometer with 3×3 coupler (#131)</b>  <a href="#">Kai Yin<sup>a</sup></a>, <a href="#">Min Zhang<sup>b</sup></a>, <a href="#">Tianhuai Ding<sup>a</sup></a>, <a href="#">Liwei Wang<sup>b</sup></a> and <a href="#">Yanbiao Liao<sup>b</sup></a>  a,Department of Precision Instruments and Mechanology, Tsinghua University;  b,Department of Electronic Engineering, Tsinghua University,China</p>
022	<p><b>A practical fiber sensor of pyrometer based on blackbody radiation (#132)</b>  <a href="#">SHI Qingping<sup>1,2</sup></a>, <a href="#">MAO Xianhui<sup>2</sup></a>, <a href="#">YUAN Libo<sup>1</sup></a>, <a href="#">ZHANG Min<sup>2</sup></a>, <a href="#">LIAO Yanbiao<sup>2</sup></a>  1,Optical Fiber Sensor Lab, College of Science Harbin Engineering University;  2,Optical Fiber Sensor Lab, Dept. of Electronic Engineering, Tsinghua University,China</p>
023	<p><b>Study of multiple record of the optical information on photothermoplastic mediums (PTPM) a holographic in the holographic way (#135)</b>  <a href="#">T.I. Goglidze<sup>a</sup></a>, <a href="#">I.V. Dement'ev<sup>a</sup></a>, <a href="#">Kortiukova Y.E.<sup>b</sup></a>, <a href="#">Matskova N.I.<sup>b</sup></a>  a,Kishinev, Moldavian State University; b, Tiraspol, Dniester State University</p>
024	<p><b>Tapered-fibers liquid dropping-speed monitoring sensors (#136)</b>  <a href="#">ZHANG Cong</a>, <a href="#">SUN Weimin</a>, <a href="#">GUO Chengkai</a>, <a href="#">WANG Xiaoli</a>  Harbin Engineering University,China</p>
025	<p><b>The strain measurement and analysis of fluorescence fiber (#137)</b>  <a href="#">JIANG Haili</a>, <a href="#">SUN Weimin</a>, <a href="#">ZHANG Cong</a>, <a href="#">LIU Zhihai</a>, <a href="#">JIANG Fuqiang</a>, <a href="#">ZHANG Yang</a>  Harbin Engineering University,China</p>
026	<p><b>Laser Generation and Reception Acoustic Ultrasonicwaves in Solids (#140)</b>  <a href="#">Arkhipov V.I.</a>, <a href="#">Bazylev P.V.</a>, <a href="#">Lugovoy V.A.</a> Dalstandart, RSRI of PTM,Russia</p>

027	<b>Construction of the Fiber-Optical Temperature Measuring System (#142)</b> Viktor A. Sedov, Igor V. Denisov, Nelly A. Rybalchenko Maritime State University,Russia
028	<b>Neural-Like Optoelectronic Processing System (#143)</b> Nelly A. Rybalchenko, Igor V. Denisov, Victor A. Sedov, Ilya K. Vernigora Maritime State University,Russia
029	<b>Ternary Influences on the Fiber-Optical Measuring Network (#144)</b> Igor V. Denisov, Nelly A. Rybalchenko, Viktor A. Sedov Maritime State University,Russia
030	<b>Hologram Image Storage in the Methyl-red Doped Nematic Liquid Crystal films (#145)</b> Kaiyu Gu, Hongyue Gao, Dewei Gong, Zhongxiang Zhou Harbin Institute of Technology,China
031	<b>Fiber optical laser hydrophone array (#149)</b> Yi Jiang, Yan Zou Beijing Institute of technology,China
032	<b>A digital liquid level sensor system based on parallel fiber sensing heads (#150)</b> Dongbo, ZhaoQida, LvJunfeng, GuoTuan, XueLifang, LiShuhong, Guhong Institute of Modern Optics,Nankai University,China
033	<b>Influence of the Mollow triplet on the spectrum of the scattered radiation by a multiatom system (#157)</b> B.B.Averbukh Tihooceansky state university, Russia
034	<b>Adaptive Photodetectors for Vibration Monitoring (#161)</b> I.A. Sokolov <sup>1</sup> , M.A. Bryushinin <sup>1</sup> , V.V. Kulikov <sup>1</sup> , K.T.V. Grattan <sup>2</sup> , A.S. Abyzov <sup>3</sup> , A.V. Rybka <sup>3</sup> , L.N. Davydov <sup>3</sup> , V.V. Slezov <sup>3</sup> 1,A.F.Ioffe Physico-Technical Institute,Russia; 2,Department of Electrical, Electronic and Information Engineering,City University,UK; 3,National Science Centre “Kharkov Institute of Physics and Technology” of Ukrainian Academy of Sciences, Academicheskaya str.,Ukraine
035	<b>The analysis of the thermal effects arising at interaction of laser radiation with the multilayered biomaterial by using Monte Carlo method (#162)</b> A.Yu.Setejkin, I.V.Krasnikov Amur State University, Russia
036	<b>Introduction of a Four-step modulation used in PGC method (#166)</b> Yang Liu, Min Zhang , Yanbiao Liao, Tshinghua University, China
037	<b>Realizing all-optical full-adder logic operation with photorefractive crystal phase conjugation (#170)</b> Fanxiuying,Lv guohui Heilongjiang University,China

038	<p><b>A new type of dynamic infrared image modulator based on the MEMS technique (#171)</b>  Fangkui Sun<sup>a</sup>, Chunfei Li<sup>a</sup>, Wei Jiang<sup>b</sup>, Shoutao Zhang<sup>b</sup>, Di Wu<sup>b</sup>, Yingxue Shi<sup>b</sup>  a,Harbin Institute of Technology; b,Heilongjiang Bada Universal Semiconductor Inc,China</p>
039	<p><b>The application of ultrasonic phased array system to the inspection of the fillet weld of T shape flat plate (#172)</b>  Shan Baohua<sup>a</sup>, Wang Hua<sup>b</sup>, Wang Xin<sup>c</sup>, Duan Zhongdong<sup>a</sup>, Ou Jinping<sup>a,d</sup>  a,School of Civil Engineering, Harbin Institute of Technology; b,Department of Automation Measurement and Control,Harbin Institute of Technology; c,School of Software, Harbin Institute of Technology; d,Dalian University of Technology,China</p>
040	<p><b>Electro-mechanical properties of carbon black filled EP/PI conductive films (#173)</b>  Xiaoyong Ji, Hui Li, Jinping Ou  Harbin Institute of Technology,China</p>
041	<p><b>Fiber Bragg Grating Sensors for Arch Bridge Suspender Health Monitoring (#174)</b>  Dongsheng Li, Zhi Zhou, Nianchun Deng, Jinping Ou  Harbin Institute of Technology,China</p>
042	<p><b>Health Diagnosis of Arch Bridge Suspender by Acoustic Emission Technique (#175)</b>  Dongsheng Li, Jinping Ou  Harbin Institute of Technology,China</p>
043	<p><b>Study on Fabrication of Smart FRP-OFBG Composite Laminates and Their Sensing Properties (#176)</b>  Yanlei Wang<sup>a</sup>, Zhi Zhou<sup>a</sup>, Jinping Ou<sup>a,b</sup>  a,Harbin Institute of Technology; b,Dalian University of Technology,China</p>
044	<p><b>The Application of Optical Fiber Sensors in the Engineering Monitoring of Dongying Yellow River Bridge (#177)</b>  Tong ZHANG<sup>a</sup>, Jinping OU<sup>a,b</sup>  a,Harbin Institute of Technology; b, Dalian University of Technology,China</p>
045	<p><b>Temporal characteristics of output pulses in Brillouin fiber-optical ring laser (#017)</b>  Lü Yue-lan, Chong Xue-qing, He Li-jun  Harbin Engineering University; Harbin Institute of science and technology,China</p>
046	<p><b>Analytical descriptions of damage threshold of dielectric materials irradiated by femtosecond pulses (#103)</b>  Gang Zhao, Qiulong Hao, Wenznog Qi, Jianguo Chen, Jing Zhang  Sichuan University,China</p>



047	<p><b>Current Situation and prospect of distributed Brillouin Sensing Technology (#180)</b>  <a href="#">Jianping He</a>, <a href="#">Zhi Zhou</a>, <a href="#">Jinping Ou</a>  Harbin Institute of Technology, Dalian University of Technology,China</p>
048	<p><b>Health Monitoring of Asphalt Pavement of Highway Based on FBG Technique (#181)</b>  <a href="#">Qingli Hu</a>, <a href="#">Zhi Zhou</a>, <a href="#">Hui Li</a>, <a href="#">Jinping Ou</a>  Harbin Institute of Technology, Dalian University of Technology,China</p>
049	<p><b>Simultaneous Load and Displacement Sensor Based on FBG (#182)</b>  <a href="#">Yan Liu</a>, <a href="#">Chunguang Lan</a>, <a href="#">Zhi Zhou</a>  Harbin Institute of Technology,China</p>
050	<p><b>ICF Laser Target Alignment Sensor Calibration System (#040)</b>  <a href="#">Bao Lijun</a>, <a href="#">Zhang Zhuo</a>, <a href="#">Liu Guodong</a>, <a href="#">Liu Bingguo</a>, <a href="#">Pu Zhaobang</a>  Dept. of Automatic Measurement and Control, Harbin Institute of Technology, China</p>
051	<p><b>Optimization of Discharge Circuit of the TEA CO<sub>2</sub> Laser with Two Discharge Channels (#044)</b>  <a href="#">Hu XiaoYong</a> , <a href="#">Zhang LiLi</a>, <a href="#">Ren DeMing</a>, <a href="#">Qu YanChen</a>, <a href="#">Zhao WeiJiang</a>, <a href="#">Song BaoAn</a>  Institute of opto-electronics, Harbin Institute of Technology,China</p>
052	<p><b>Three dimensional vision inspection based on structured light projection and neurocalibration (#186)</b>  <a href="#">XIE Kai</a>, <a href="#">LIU WanYu</a>, <a href="#">PU Zhao-Bang</a>  Harbin Institute of Technology,China</p>
053	<p><b>Study on a new kind of surface sticking strain sensor with sensitivity enhanced based on FBG (#187)</b>  <a href="#">Jun He</a>, <a href="#">Zhi Zhou</a>, <a href="#">Huijuan Dong</a>, <a href="#">Guangyu Zhang</a>  Harbin Institute of Technology,China</p>
054	<p><b>Sduty on FBG-based sensor for simultaneous dual-measurement of pressure and temperature (#188)</b>  <a href="#">Dan Wang</a>, <a href="#">Zhi Zhou</a>, <a href="#">Jun He</a>, <a href="#">Jinping Ou</a>  Harbin Institute of Technology,China, Dalian University of Technology,China</p>
055	<p><b>A novel all-fiber self-organization coherent Erbium-doped fiber laser (#054)</b>  <a href="#">Jia X.J.</a>, <a href="#">Liu F.N.</a>, <a href="#">Fu S.G.</a>, <a href="#">Zhang J.</a>, <a href="#">Liu Y.G.</a>, <a href="#">Guo Z..C.</a>, <a href="#">Yuan S.Z.</a>, <a href="#">Kai G.Y.</a>, <a href="#">Dong X.Y.</a>  Institute of Modern Optics, Nankai University, China</p>
056	<p><b>Detection Algorithm for Space Dim Moving Object (#031)</b>  <a href="#">PAN Hai-Bin</a>, <a href="#">ZHANG Wei</a>, <a href="#">CONG Ming-Yu</a>  Research Center for Space Optical Engineering, Harbin Institute of Technology,China</p>

057	<p><b>The investigation of liquid analysis method based on fiber micro-drop sensor (#138)</b>  <a href="#">SUN Weimin</a>, <a href="#">LI Xiaomei</a>, <a href="#">ZENG Youmin</a>  College of Science, Harbin Engineering University, China</p>
058	<p><b>A Novel Ultrasonic Phased Array Inspection System to NDT for Offshore Platform Structures (#072)</b>  <a href="#">Wang Hua</a><sup>a</sup>, <a href="#">Shan Baohua</a><sup>b</sup>, <a href="#">Wang Xin</a><sup>c</sup>, <a href="#">Ou Jinping</a><sup>b</sup>  a, Department of Automation Measurement and Control, Harbin Institute of Technology; b, School of Civil Engineering, Harbin Institute of Technology; c, School of Software, Harbin Institute of Technology, China</p>
059	<p><b>Development of Automated Inspection System for Highway Surface Distress (#160)</b>  <a href="#">HouXiangshen</a>, <a href="#">Wang Hua</a>, <a href="#">Wang Qi</a> Harbin Institute of Technology, China</p>
060	<p><b>A Novel Electric Current Sensor Based on Fiber Bragg Gratings and Magnetostrictive Composites (#178)</b>  <a href="#">Xufeng Dong</a><sup>a</sup>, <a href="#">Xinchun Guan</a><sup>a</sup>, <a href="#">Jinping Ou</a><sup>a,b</sup>  a, School of Civil Engineering, Harbin Institute of Technology;  b, Dalian University of Technology, China</p>
061	<p><b>Design of Integrated Monitoring System for the Dongying Yellow River Bridge Based on Optical Fiber Sensing Technique (#179)</b>  <a href="#">Tong ZHANG</a><sup>a</sup>, <a href="#">Jinping OU</a><sup>a,b</sup>  a, School of Civil Engineering, Harbin Institute of Technology; b, School of Civil Engineering, Dalian University of Technology, China</p>
062	<p><b>Influence of energy-transfer up-conversion on diode-end-pumped Q-switched Tm,Ho:YLF lasers (#010)</b>  <a href="#">Xinlu Zhang</a><sup>a,b</sup>, <a href="#">Jinhui Cui</a><sup>a</sup>, <a href="#">Li Lia</a>, <a href="#">Shenli Yua</a>, <a href="#">Youlun Ju</a><sup>b</sup>, <a href="#">Yuezhu Wang</a><sup>b</sup>  a, Harbin Engineering University;  b, Harbin Institute of Technology, China</p>
063	<p><b>Thermal Field Distribution on Side-Polished Fiber Surrounded by Thermo-optic Polymer (#101)</b>  <a href="#">Chen Zhe</a>, <a href="#">Zeng Yingxin</a>, <a href="#">Jiang Peifan</a>, <a href="#">Li Fengli</a>, <a href="#">Bai Chunhe</a>  Jinan University</p>



# 展览公司

## Exhibition company

序号	公司名称	公司信息
1	美国 MOI	北京海淀区上地开拓路 7 号先锋大厦 210 室 蒋方云 手机 13911379571 bensonjiang@micronoptics.com.cn
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