

Session Information

Instructions for Presenters

Speakers are requested to be in their respective session rooms at least 10 minutes prior to the commencement of each session.

The duration of the presentation slot is 15 minutes. This includes 12 minutes for the presentation itself and 3 minutes for questions from the audience. We could appreciate it if all presenters can adhere strictly to this time limit.

Presentation must be carried out using **Microsoft PowerPoint**. No slide projectors will be made available.

For speakers using the Microsoft PowerPoint. They should bring their files on a CD ROM or thumb-drive and upload their file from 08:00—08:30hrs daily, during the daily tea breaks and lunches.

Instructions for Session Chairs

We provide a small bell in every session room. Please ring a warning bell as follows

Invited talk: one ring at 10 minutes, two rings at 15minutes

Regular talk: one ring at 10 minutes, two rings at 12 minutes

It is a good idea to warn your presenters at the start of the session that you will be ringing this bell. Please leave this bell in the room for the next chairperson.

Please remember the time frame. Keeping the program to time is very important, Please be aware of the time periods (slots) speakers have been designated to present.

General Information

Conference venue

International Conference Center
#127 YouYi West Road
Xi'an, Shaanxi, China

中国陕西省西安市友谊西路 127 号
西北工业大学教学南路
国际会议中心
邮编: 710072

Location Map



Programme At-A-Glance

Monday, 6th July 2009

09.30—17.00 **Tutorial Sessions**

Tuesday, 7th July 2009

09.00—09.30 Opening Ceremony

09.30—10.10 **Keynote Speaker**
Dr. Chunming Qiao - University at Buffalo
Designing a Universal Signaling Framework for Integrated Switching in the Future Internet

10.10—10.50 Morning Tea Break / Poster Session 1A

10.50—11.20 **Keynote Speaker**
Dr. Zhang Hongke - Beijing Jiaotong University
The Present and Future of Information Network

11.20—12.30 Session 1-1

12.30—14.00 Lunch Session

14.00—15.40 Session 1-2

15.40—16.20 Afternoon Tea Break / Poster Session 1B

16.20—18.00 Session 1-3

Wednesday, 8th July 2009

08.30—10.30 Session 2-1

10.30—11.00 Morning Tea Break / Poster Session 2A

11.00—12.40 Session 2-2

12.40—14.00 Lunch Session

14.00—16.00 Session 2-3

16.00—16.30 Afternoon Tea Break

16.30—18.00 Session 2-4

19.00— 21.00 Conference Banquet

Thursday, 9st July 2009

08.30—10.15 Session 3-1

Friday, 10th July 2009

09:00 —17:00 Xi'an One Day Tour

Technical Programme

Session 1 - 1 (11.20 – 12.30) 7th July 2009

Central Hall

- 11.20—11.40 **Invited Speaker**
VLADIMIR CHIGRINOV, HKUST, Hong Kong
Liquid Crystal Applications in Photonics
- 11.40—12.00 **Invited Speaker**
JUN HU, Eindhoven University of Technology, Netherlands
Beyond L\$: values across the virtual and the real

Room A

- 11.20—11.40 **Invited Speaker**
JIANQIANG LI, Beijing University of Posts and
Telecommunications, China
*Photonic-Assisted Processing Techniques of Microwave Signals
Using Electro-Optic Modulators*
- 11.40—12.00 **Invited Speaker**
HONGLIN AN, Institute of Photonics and Optical Science,
University of Sydney, Australia
*Second-order Optical Nonlinearity in Thermally Poled Silica
Waveguides Written by Femtosecond Laser Pulses*
- 12.00—12.15 Oral 1-1A- 1
(conf07a024) All-optical Format Conversion with Wavelength Multicast
Capability Using Non-degenerate FWM in an SOA
*BINGBING WU, JIAN WU, SONGNIAN FU, PING SHUM, KUN
XU, XIAOBIN HONG, JINTONG LIN*
- 12.15—12.30 Oral 1-1A- 2
(conf07a429) Optical Generation of Millimeter Wave Multiband OFDM Ultra-
Wideband Wireless Signal and Transmission over Fiber
*MOHMOUD MOHAMED, BOUCHAIB HRAIMEL, ZHANG
XIUPU, MEER SAKIB*

Room B

- 11.20—11.40 **Invited Speaker**
JIANPING YAO, University of Ottawa, Canada

Optical Generation of Arbitrary Microwave Waveforms

- 11.40—12.00 **Invited Speaker**
XIAOKE YI, The University of Sydney, Australia
Microwave photonic for high frequency signal processing
- 12.00—12.15
(conf07a449) Oral 1-1B-1
All-Optical Frequency Up-conversion Based on Nonlinear
Polarization Rotation in an SOA for Radio-over-fiber Applications
*MINXUE WANG, JIAN WU, SONGNIAN FU, KUN XU, XIAOBIN
HONG, JINTONG LIN, PERRY SHUM*
- 12.15—12.30
(conf07a094) Oral 1-1B-2
Service Provisioning Framework with Cooperation of Control and
Management Plane
BINGLI GUO

Room C

- 11.20—11.40 **Invited Speaker**
YIKAI SU, Shanghai Jiao Tong University, China
*Convergence of RoF and Baseband Transmissions Using Dual-
Parallel Modulator*
- 11.40—12.00 **Invited Speaker**
YONG LIU, University of Electronic Science & Technology of
China, China
*Semiconductor Based All-Optical Wavelength Conversion for
Telecom Applications*
- 12.00 – 12.15
(conf07a479) Oral 1-1C-1
High Dynamic Range Images guided Contrast Enhancement for
Tone-mapped Low Dynamic Range Images
*KA YUE YIP, OSCAR C. AU, CHUN HUNG LIU, CHEUK HONG
CHENG*
- 12.15—12.30
(conf07a026) Oral 1-1C-1
A Novel Rate Control Scheme for H.264/AVC Based on Scene
Change
KAN CHANG, BO YANG, JUAN LUO

Session 1 - 2 (14.00 – 15.40)
7th July 2009

Room A

- 14.00—14.20 **Invited Speaker**
YUNQI LIU, Shanghai University, China
Rewritable Long-Period Fiber Gratings Written by CO₂-Laser in Conventional Optical Fibers
- 14.20—14.40 **Invited Speaker**
HAIXIA ZHANG, Shandong University, China
On Multiuser Multistream Transmission
- 14.40—14.55
(conf07a062) Oral 1-2A-1
A Novel Simple and Cost-effective (D)QPSK/4QAM Coherent Homodyne Receiver based on time-switching phase diversity
YAN LI, KUN XU, JIE YIN, XIAOGANG YI, JIAN WU, XIAOBIN HONG, JINTONG LIN
- 14.55—15.10
(conf07a453) Oral 1-2A-2
Dual-Channel All-Optical NRZ to RZ Format Converter Based on One Pump FOPA
JUN LUO, JINLONG YU, JU WANG, BINGCHEN HAN, BO WU, JINGZHONG GUO, ENZE YANG
- 15.10—15.25
(conf07a127) Oral 1-2A-3
OFF-RESONANT SLOW LIGHT INDUCED BY CPO FOR WDM SYSTEMS
YU-MIAO LI, YAN LING XUE,
- 15.25—15.40
(conf07a116) Oral 1-2A-4
A Waveguide Coupled Microdisk Resonator with Long Interaction Length Used for Stop-band Filters of Optical Communications
HEJUN YU, XIAOGUANG ZHANG, LIXIA XI,

Room B

- 14.00—14.20 **Invited Speaker**
MAARUF ALI, Oxford Brookes University, United Kingdom
Next Generation Wireless Systems and Services
- 14.20—14.40 **Invited Speaker**
FABIEN BRETENAKER, CNRS-Laboratoire Aime Cotton, France
Low noise lasers for the generation and transport of analog radiofrequency signals
- 14.40—14.55
(conf07a053) Oral 1-2B-1
Analysis of High Bandwidth-Delay Product OBS Networks
SHUPING PENG

14.55—15.10
(conf07a466) Oral 1-2B-2
A Heuristic Method for Survivable WDM Networks Design with
Shared-cycles
ZHENRONG ZHANG, XINGFANG LUO

15.10—15.25
(conf07a407) Oral 1-2B-3
A Collision-aware Queue Assignment Scheme for Multiservice
based Transport MPLS
ZHANG ZHIHUI

15.25—15.40
(conf07a111) Oral 1-2B-4
Wavelength Re-Use Using Optical Phase locking For 100Gb/s
DQPSK Up-Stream Transmission in Passive Optical Access
Networks
BINH LE-NGUYEN, KHAI HOAN TRAN

Room C

14.00—14.20 **Invited Speaker**
XINYONG DONG, China Jiliang University, China
Tunable Filters Based on Chirped-fiber Bragg Gratings

14.20—14.40 **Invited Speaker**
CHUN-LIU ZHAO, China Jiliang University, Hangzhou, China
Long-period gratings in photonic crystal fibers and its applications

14.40—14.55
(conf07a447) Oral 1-2C-1
Near-lossless Compression of Bayer Color Filter Array Images
*WEN YANG, OSCAR AU, JINGJING DAI, CHAO PANG, FENG
ZOU, XING WEN, YI YANG,*

14.55—15.10
(conf07a476) Oral 1-2C-2
Fruit Shape Discrimination using Decomposition Technique: A
Comparison of Mother Wavelets
SLAMET RIYADI, MOHD MARZUKI MUSTAFA, AINI HUSSAIN

15.10—15.25
(conf07a450) Oral 1-2C-3
Warped Anisotropic Diffusion of Ultrasound Image
BALZA ACHMAD, MOHD. MARZUKI MUSTAFA, AINI HUSSAIN

15.25—15.40
(conf07a054) Oral 1-2C-4
Anti Packet Loss Audio Coding Applicable to Mobile Ad Hoc
Networks
HONGFEI MA

Session 1 - 3 (16.20 – 18.00)
7th July 2009

Room A

- 16.20—16.40 **Invited Speaker**
XIAOPENG DONG, Institute of Lightwave Technology, Xiamen University, China
Tunable fiber devices and sensors based on the D-shaped fiber
- 16.40—17.00 **Invited Speaker**
TETSUYA KAWANISHI, NICT, Japan
Integrated lightwave modulators for hugh capacity transmission systems
- 17.00—17.15
(conf07a430) Oral 1-3A-1
Survivable EPON System Supporting Direct Communication Between ONUs
LIQIAN WANG, XUE CHEN, DONGCHAO MA
- 17.15—17.30
(conf07a065) Oral 1-3A-2
Effects of Group Delay Difference on Ultrashort Pulse Propagation in Nonlinear Long-Period Fiber Gratings
MIN LIU, KIN CHIANG, DONG WANG, YAN CHEN
- 17.30—17.45
(conf07a130) Oral 1-3A-3
Four-Wave Mixing Wavelength Conversion for a Novel Return-to-Zero FSK Signal at 43 Gb/s
LIU XIAO, HOU CHUNNING, ZHEN XI, CHI NAN, WEN HE, ZHANG HANYI

Room B

- 16.20—16.40 **Invited Speaker**
XUELIN YANG, Bangor University, United Kingdom
High-speed All-optical Signal Processing using Semiconductor Optical Amplifiers
- 16.40—17.00 **Invited Speaker**
JONATHAN INGHAM, University of Cambridge, United Kingdom
Low-Cost 20 Gb/s Access Networks using Electronic CDMA
- 17.00—17.15
(conf07a468) Oral 1-3B-1
A Novel Strategy for Fast Light-path Set-up
XUEYUE CAO, ZHENRONG ZHANG, ZHENGBIN LI

- 17.15—17.30
(conf07a390) Oral 1-3B-2
A Novel ECMP Switching Mechanism based on PTN Network
ZHANG YONGJUN, CAO CHANG, YAO YU
- 17.30—17.45
(conf07a037) Oral 1-3B-3
Backward Recursive Tree Computation for Inter-domain Multicast Routing in Optical Networks
MENG LU, YINGDI YU, YAOHUI JIN, WEIQIANG SUN, WEI GUO, WEISHENG HU
- 17.45—18.0
(conf07a050) Oral 1-3B-4
Novel Routing Algorithms for Hierarchical Architecture in ASON
LUO PEI, HUANG SHANGUO, LIAN WEIHUA, LI BIN, GU WANYI

Room C

- 16.20—16.40 **Invited Speaker**
JIANJUN YU, NEC Laboratories America, United States
Broadband ROF Techniques
- 16.40—17.00 **Invited Speaker**
JIAN WANG, Huazhong University of Science and Technology, China
PPLN-Based All-Optical Logic Gate and Format Conversion for CSRZ Signals
- 17.00—17.15
(conf07a015) Oral 1-3C-1
DELAY-AREA EFFICIENT FNT DESIGN FOR CYCLIC CONVOLUTION
ZHANG JIAN
- 17.15—17.30
(conf07a152) Oral 1-3C-2
Next Generation Network Design with Larger Islands of Transparency
SHAO XUGUANG, SHUM PING, ZHANG LIREN
- 17.30—17.45
(conf07a029) Oral 1-3C-3
Demonstration of all-optical 2R Regeneration Based on Self-induced Polarization Rotation in a Single Semiconductor Optical Amplifier
PINXIANG DUAN, LIGONG CHEN, SHANGJIAN ZHANG, XIAOLI ZHOU, YONGZHI LIU, YONG LIU
- 17.45—18.0 Oral 1-3C-4

- (conf07a032) Electro-Optical Sampling Based on Nonlinear Polarization Rotation in a Semiconductor Optical Amplifier
HUIJIAO YANG, YONG LIU, MAOJIE LUO, TIANXIANG XU, SHANGJIAN ZHANG,

Session 2 - 1 (08.30 – 10.30)
8th July 2009

Room A

- 08.30—08.50 **Invited Speaker**
WEIJUN TONG, R&D Center, Yangtze Optical Fiber and Cable Co., LTD., China
All-solid Photonic Bandgap Fibers and Future Applications
- 08.50—09.10 **Invited Speaker**
LIU BO, Nankai University, China
Tilted Fiber Grating and It's Applications
- 09.10—09.30 **Invited Speaker**
LIU YAN-GE, Institute of Modern Optics, Nankai University, China
Tunable devices based on thermal and electrical control of photonic bandgap fibers with functional liquid infused
- 09.30—09.45
(conf07a155) Oral 2-1A-1
Wideband Microwave Frequency Measurement
JUNQIANG ZHOU, LI XIA, SHEEL ADITYA, PING SHUM, SONGNIAN FU, BABANG PUTRA PARHUSIP
- 09.45—10.00
(conf07a027) Oral 2-1A-2
Bidirectional chaos communication system based on the optoelectronic feedback semiconductor lasers
TAO DENG, ZHENG-MAO WU, JIAN-GUO CHEN, GUANG-QIONG XIA,
- 10.00—10.15
(conf07a131) Oral 2-1A-3
Bit Error Rate Improvement of Degraded Differential Phase-Shift Keying Signals with Based on Semiconductor Optical Amplifier Regenerator
XI LIXIA
- 10.15—10.30
(conf07a386) Oral 2-1A-4
SCM-Based Upstream Transmission in 1Gbps/10Gbps Co-existence EPON
ZHIGUO ZHANG, BO LV

Room B

- 08.30—08.50 **Invited Speaker**
SUNKYU YU, Seoul National University, Korea, Republic of
Photonic Crystal Analog-Digital Converter Based On Slow-Light Structures
- 08.50—09.10 **Invited Speaker**
SHANHUI FAN, Stanford University, United States
Dynamic Nanophotonic Structures
- 09.10—09.30 **Invited Speaker**
BAI-OU GUAN, Dalian University of Technology, China
Electrically Tunable Microwave Frequency Generation Based on Dual-Polarization Fiber Grating Laser
- 09.30—09.45
(conf07a012) Oral 2-1B-1
Simultaneous Self-pumping All-Optical Label Swapping and Wavelength Conversion for Optical Packet Switching Applications
KUN XU, MINXUE WANG, JIAN WU, SONGNIAN FU, XIAOBIN HONG, JINTONG LIN, PERRY SHUM
- 09.45—10.00
(conf07a148) Oral 2-1B-2
A Novel Scheme to Generate BPSK Millimeter Wave Signals for 30-GHz Duplex Radio-Over-Fiber System Based on Complementary Phase Modulation
YIN JIE, XU KUN, LI YAN, GUI LIN, WANG DAPENG, WU JIAN, HONG XIAOBING, LIN JINTONG
- 10.00—10.15
(conf07a101) Oral 2-1B-3
A novel optical RZ-DQPSK/IRZ-ASK orthogonal modulation format for all-optical label swapping
XUEGUANG YUAN, JINNAN ZHANG, YANGAN ZHANG, MINGLUN ZHANG, YONGQING HUANG, XIAOMIN REN
- 10.15—10.30
(conf07a034) Oral 2-1B-4
An effective splicing method on photonic crystal fiber based on controlled hole collapse
ZILUN CHEN, TIM BIRKS

Room C

- 08.30—08.50 **Invited Speaker**
ELFED LEWIS, University of Limerick, Optical Fibre Sensor Research Center, Limerick, Ireland

*OPTICAL SENSOR SYSTEM FOR NON-INVASIVE
HAEMOGLOBIN CONCENTRATION MEASUREMENT*

- 08.50—09.10 **Invited Speaker**
TUANFA QIN, School of Computer and Electronic
Information, Guangxi University, China
*The Performance Analysis of User Cooperative Diversity System
Based on Network Coding*
- 09.10—09.30 **Invited Speaker**
LIMIN TONG, Zhejiang University, China
Optical micro- and nanofibers for device applications
- 09.30—09.45 Oral 2-1C-1
(conf07a088) Lifetime Enhancement Based on LEACH-TSM Protocol in
Wireless Sensor Networks
YAN SONG, JIAN CHEN, YONGHONG KUO
- 09.45—10.00 Oral 2-1C-2
(conf07a081) Optimal Distance-Based Multi-hop Clustering Algorithm
SHANSHAN ZHEN, JIAN CHEN, YONGHONG KUO
- 10.00—10.15 Oral 2-1C-3
(conf07a489) New Smith Predictor and Fuzzy Adaptive Control for Wireless
Networked Control Systems
WENCAI DU
- 10.15—10.30 Oral 2-1C-4
(conf07a090) Location-only-based Self Scheduling in Sensor Networks for
Surveillance
AHMED AHMED, HONGCHI SHI

Session 2 - 2 (11.00 – 12.40)
8th July 2009

Room A

- 11.00—11.20 **Invited Speaker**
XUEWEN SHU, Aston University, United Kingdom
Advanced fiber grating devices: design and fabrication
- 11.20—11.40 **Invited Speaker**
TIM BIRKS, University of Bath, United Kingdom
Photonic crystal fibre post-processing
- 11.40—11.55 Oral 2-2A-1
(conf07a076) The Effect of Non-ideal Carrier Frequency Relationship on Four-

Wave Mixing with Pulses Input
XIAOSHENG XIAO,

11.55—12.10
(conf07a063)

Oral 2-2A-2
Automatic EDFA Test System Based on Virtual Instrument
Architecture
LIU HONGLIN

12.10—12.25
(conf07a454)

Oral 2-2A-3
A Novel Scheme for High-Precision and High-Speed Electro-
Optical Analog-to-Digital Converter based on LiNbO₃ Modulators
*XIAOLI ZHOU, YONG LIU, QIANSHU ZHANG, PINXIANG DUAN,
LIGONG CHEN, YONGZHI LIU*

12.25—12.40
(conf07a460)

Oral 2-2A-4
Characteristics of the Reflection Spectra of the Side-Coupled
Photonic Crystal Filter
XINGJIAO ZHANG, JINGJUAN FU, ZHIQING YE

Room B

11.00—11.20

Invited Speaker
PERIKLIS PETROPOULOS, University of Southampton, United
Kingdom
*All-optical Processing of Signals Using Combinations of Linear and
Nonlinear Fiber Technologies*

11.20—11.40

Invited Speaker
HUANG YONG-ZHEN, Institute of Semiconductors, Chinese
Academy of Sciences
Characteristics of Microring Optical Channel Drop Filters

11.40—11.55
(conf07a473)

Oral 2-2B-1
Research on Controllable Pulse Group Velocity in Optical Delay
Lines
*YONGLAN HOU , CHAO PENG, LEI JIA, LIXIN ZHU, ZHENGBIN
LI*

11.55—12.10
(conf07a073)

Oral 2-2B-2
Polarization mode dispersion monitoring using a polarization beam
splitter and asynchronous sampling
JIAN ZHAO

12.10—12.25
(conf07a046)

Oral 2-2B-3
Soliton Switching in Nonlocal Nonlinear Liattices with the
Longitudinal Modulation

REN HAIDONG, ZHOU JUN, FENG YAPING, LI JINHUA

12.25—12.40
(conf07a056) Oral 2-2B-4
Higher-Order Guided Modes at Defect Sites in Air/Glass Photonic
Bandgap Fibers
LEI YAO, DAVID BIRD, SHUISHENG JIAN, JONATHAN KNIGHT

Room C

11.00—11.20 **Invited Speaker**
NAOYA WADA, NICT, Japan
Recent progress on optical packet switching system

11.20—11.40 **Invited Speaker**
LI PEI , Beijing Jiaotong University, China
*Special Optical Fibers Fabricated With a Self-designed Research
Platform*

11.40—11.55
(conf07a375) Oral 2-2C-1
Energy Efficiency on Nakagami-m Fading Distribution for ARQ
protocols in WSNs
JIANCHENG XU

11.55—12.10
(conf07a451) Oral 2-2C-2
Efficient Key Management Scheme and Routing Protocol in
Wireless Sensor Networks
BAO-YING MA, NIAN-MIN YAO , SHU-PING FAN

12.10—12.25
(conf07a059) Oral 2-2C-3
2-D DOA Estimation Performance Analysis with PRIME Algorithm
*H. K. HWANG, ZEKERIYA ALIYAZICIOGLU, JONATHAN IBERA,
YE FENG*

12.25—12.41
(conf07a151) Oral 2-2C-4
A Novel Ultra Wideband UAVCOM Towards Cognitive Radio
YI HE

Session 2 - 3 (14.00 – 16.00)
8th July 2009

Room A

14.00 – 14.20 **Invited Speaker**
HENRY BOOKEY, Nonlinear Optics Group, Heriot Watt University,
Edinburgh, UK
Tellurite Multicore Fibers: Towards Multifunctional Fiber Devices

14.20 – 14.40	Invited Speaker SANDIP VIJAY, Prof., India <i>Generic Cryptology Algorithm (GCA) for Energy Efficient Secure Wireless Ad-Hoc Sensor Network</i>
14.40 – 14.55 (conf07a459)	Oral 2-3A-1 Determination of Planar Optical Waveguide Refractive-Index Profiles with the Cubic Spline Function Interpolation Algorithm <i>ZHIQING YE, FAN YE, XINGJIAO ZHANG</i>
14.55 – 15.10 (conf07a061)	Oral 2-3A-2 The Gain Characteristic of Rayleigh Scattering and SBS in backward Pumped Fiber Raman Amplifier <i>HUAPING GONG, ZAIXUAN ZHANG</i>
15.10 – 15.25 (conf07a145)	Oral 2-3A-3 A Single Resonant and Widely Tunable Ultrathin Cladding Long-Period Fiber Grating <i>CHENG-LING LEE, PIN-CHENG WU, HSIU-PO CHUANG</i>
15.25 – 15.40 (conf07a484)	Oral 2-3A-4 Investigations into Space-time Coded SVD Based Beamforming for a MIMO System <i>FENG WANG</i>
15.40 – 15.55 (conf07a091)	Oral 2-3A-5 Improving the BP Algorithm Using RPCL for FNN Based Adaptive Equalizers <i>CHIA HO</i>
15.55 – 16.10 (conf07a408)	Oral 2-3A-6 Closed-Form Expression of Outage Probability for DF Relaying in Rayleigh Fading with Dissimilar Rayleigh Interferers <i>QINGHAI YANG</i>

Room B

14.00 – 14.15 (conf07a147)	Oral 2-3B-1 Photonic Analog-to-Digital Conversion <i>HUY QUOC LAM, VINCENT WONG, PING SHUM</i>
14.15 – 14.30 (conf07a158)	Oral 2-3B-2 Spectral Characteristics of Multiple and Cascaded Phase-Shifted Fiber Bragg Grating <i>SHEN CHANGYU</i>

- 14.30 – 14.45
(conf07a014) Oral 2-3B-3
Design and Analysis of Microstructured Optical Fiber for Single-Polarization Single-Mode Guidance
JUANJUAN HU, PING SHUM, CHAO LU
- 14.45 – 15.00
(conf07a432) Oral 2-3B-4
Wavelength switching in a passively mode-locked fiber laser with all-norm-dispersion cavity
Tian Xiaolong, *TANG MING*
- 15.00 – 15.15
(conf07a402) Oral 2-3B-5
Calculation of Slow Light Tunable Delay Based on Nano-material Doped Fiber and Its Applications
YING ZHANG, YUWEN DUAN, KUN ZHONG, RU ZHANG
- 15.15 – 15.30
(conf07a437) Oral 2-3B-6
Mathematical Model on Manufacturing Microfiber Coil Resonator
FEI XU, YANQING LU,
- 15.30 – 15.45
(conf07a113) Oral 2-3B-7
Broadband directional coupler based on photonic crystal fibers
MING-YANG CHEN
- 15.45 – 16.00
(conf07a388) Oral 2-3B-8
Flat-top and Broadband Modulation-instability Gain in Photonic Crystal Fiber with Two
LENG YUXIN, XU ZHIZHAN

Room C

- 14.00 – 14.15
(conf07a124) Oral 2-3C-1
Probabilistic Fuzzy Cognitive Map Based Trust Model for Mobile Ad hoc Networks
FENG YANG, CHENG ZHONG, ZHENRONG ZHANG, DANHUA LU
- 14.15 – 14.30
(conf07a157) Oral 2-3C-2
Design of Band-stop Frequency Selective Surfaces with Hexagon Array for Mobile Communication
XINGFANG LUO, JUNYU PAN
- 14.30 – 14.45
(conf07a112) Oral 2-3C-3
A QR-decomposition Based Antenna Selection Method With Complete Channel State Information
GANG LI, FEIYUN HE

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| 14.45 – 15.00
(conf07a110) | Oral 2-3C-4
A Simplified MIMO Demodulation Scheme Using Constellation Reduction
<i>FEIYUN HE, GANG LI,</i> |
| 15.00 – 15.15
(conf07a125) | Oral 2-3C-5
Experimental Analysis on Channel Status and a Channel Status Predictor Based on Elman Neural Network (ENN) for Wireless Local Areas Networks
<i>WEIDONG XIANG</i> |
| 15.15 – 15.30
(conf07a464) | Oral 2-3C-6
Closed-Loop Transmit Diversity Scheme for Eight Transmit Antennas System Using Code Selection with Phase Feedback
<i>WON JUN KIM, DONGWEON YOON, SANG KYU PARK, MIN JAE CHOI</i> |
| 15.30 – 15.45
(conf07a052) | Oral 2-3C-7
ICA POST-PROCESSING FOR MMSE CDMA-RECEIVER.
<i>QUYNH ANH NGUYEN XUAN, THUAN DUONG HIEN, HUY LAM QUOC</i> |
| 15.45 – 16.00
(conf07a441) | Oral 2-3C-8
Hybrid-algorithm Combined Equalization for HF Channels
<i>ZHANG ZHECHUAN, DU SHUANYI</i> |

Session 2 - 4 (16.30 – 18.00)
8th July 2009

Room A

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|-------------------------------|--|
| 16.30 – 16.45
(conf07a427) | Oral 2-4A-1
Multi-chip Communication Design Based on MSP430 imitating SPI and CS5460A
<i>XIAOLONG CHEN, HANYAN HUANG, YOUFEI QIU</i> |
| 16.45 – 17.00
(conf07a089) | Oral 2-4A-2
Supercontinuum Generation in Zero-Dispersion Region of Highly Nonlinear Fibers Using Erbium Fiber Laser Source for Tera-Hertz Wave Generation
<i>TANG MING</i> |
| 17.00 – 17.15 | Oral 2-4A-3 |

- (conf07a023) Effects of Module Materials on Temperature Sensitivity of FBG Sensors
JIANZHONG HAO, CHIN YI LIAW, LING CHUEN ONG
- 17.15 – 17.30 Oral 2-4A-4
(conf07a393) Another Efficient Designated Verifier Signature Scheme in the Standard Model
ZHANG JIANHONG, WANG YUMIN,
- 17.30 – 17.45 Oral 2-4A-5
(conf07a478) Architecture for IPTV Content Delivery
GYU MYOUNG LEE, JEONG YUN KIM, JUN KYUN CHOI, NOEL CRESPI
- 17.45 – 18.00 Oral 2-4A-6
(conf07a423) Towards Personalized Services Composition on IMS: A Basic Approach
ABDERRAHMANE MAARADJI, CUITING HUANG, NOEL CRESPI

Room B

- 16.30 – 16.45 Oral 2-4B-1
(conf07a141) A Polarization Stabilization Experiment up to 12.6 krad/s
XIAOGUANG ZHANG
- 16.45 – 17.00 Oral 2-4B-2
(conf07a415) Stress-Induced Birefringence Analysis for the Efficient Design of Polymer Waveguide Devices
M. F. HOSSAIN, H. P. CHAN, M. A. UDDIN, R. K. Y. LI,
- 17.00 – 17.15 Oral 2-4B-3
(conf07a146) Ultra-Thin Metal-Coated on Tapered Fibers
CHENG-LING LEE, LI-WEI LIU, KUO-HSIANG LIN, KUEI-CHU HSU, NAN-KUANG CHEN
- 17.15 – 17.30 Oral 2-4B-4
(conf07a411) NELDER-MEAD SIMPLEX METHOD FOR n th-ORDER CASCADED CW RAMAN FIBER LASERS
CHUN HO TSE, MING TANG, PING SHUM
- 17.30 – 17.45 Oral 2-4B-5
(conf07a465) Wavelength Spacing Tunable Dual-Wavelength Laser and Its Application as a Transversal Loading Sensor
HONGYAN FU, XUEWEN SHU, CHENGBO MOU

17.45 – 18.00 Oral 2-4B-6
(conf07a368) Microstructured Terahertz Fiber for Absorption Loss Suppression
GUOBIN REN

Room C

16.30 – 16.45 Oral 2-4C-1
(conf07a006) Common Matrix Form for Spectral Estimation and A New Derived method
DENGSHAN HUANG

16.45 – 17.00 Oral 2-4C-2
(conf07a422) Remote Sensing Image Segmentation Based On the Combination of JSEG and LBP Techniques
LEI WANG

17.00 – 17.15 Oral 2-4C-3
(conf07a462) Automatic Border Detection of Cardiac Cavity Images Using Boundary and Triangle Equation
RIYANTO SIGIT

17.15 – 17.30 Oral 2-4C-4
(conf07a051) LED Illuminating Light Pipe using Large-diameter Air-Core Photonic Crystal Fiber
SHEN CHANGYU

17.30 – 17.45 Oral 2-4C-5
(conf07a095) The Software Implementation of Decoding for RS Code Based on a New Degree Computationless Modified Euclid (DCME) Algorithm
TAO BAO

17.45 – 18.00 Oral 2-4C-6
(conf07a455) A Threshold Signcryption Protocol for Distributed Systems
HAN YILIANG

Session 3 - 1 (08.30 – 10.15) 9st July 2009

Room A

08.30 – 08.45 Oral 3-1A-1
(conf07a486) Design and implementation of Library Management Information system
HANYAN HUANG

08.45 – 09.00 Oral 3-1A-2

- (conf07a444) A Lossless Coding Scheme for Images by Using Cross Point Regions on Multiple Bit Planes
TIN THANH DANG,
- 09.00 – 09.15 Oral 3-1A-3
(conf07a431) Dynamic Control of Inference Problem
MEHDI HAGHIGHAT, ESLAM NAZEMI
- 09.15 – 09.30 Oral 3-1A-4
(conf07a005) Temperature dependence of fluorescence in ytterbium-doped silica fiber
JIAN PENG, YONGJUN FU, LISONG LIU, JING WANG, SHUISHENG JIAN
- 09.30 – 09.45 Oral 3-1A-5
(conf07a410) Temperature-Insensitive Fiber Bragg Grating Tilt Sensor
KAI NI
- 09.45 – 10.00 Oral 3-1A-6
(conf07a481) Application and Study on Load Cell Based on FBG Sensor for Perennial Cable Force Measurement of Arch Bridge
SHENG-CHUN LIU , DE-SHENG JIANG
- 10.00 – 10.15 Oral 3-1A-7
(conf07a400) Dynamic Detection Technique for Fiber Grating Sensor
PENG GE

Room B

- 08.30 – 08.45 Oral 3-1B-1
(conf07a373) Single-polarization Single-mode Liquid-crystal Photonic Crystal Fibers
JIAN SUN, CHI CHIU CHAN
- 08.45 – 09.00 Oral 3-1B-2
(conf07a412) Fiber-optic True Distributed Acoustic Emission Sensor for Large Structure Health Monitoring
SHENG LIANG, WENTAI LIN, CHUNXI ZHANG, LIJING LI, CHEN LI, CHANGYONG TIAN, YUPENG AN
- 09.00 – 09.15 Oral 3-1B-3
(conf07a397) Simultaneous Displacement and Temperature Sensing with Single FBG
TING WEI
- 09.15 – 09.30 Oral 3-1B-4

- (conf07a420) Modification of the Wavelength-strain Coefficient of FBG for the Prediction of Steel Bar Corrosion Embedded in Concrete
WEN CHEN, XIAOPENG DONG
- 09.30 – 09.45 Oral 3-1B-5
(conf07a424) Fibre Bragg grating bending sensor utilizing asymmetric cladding modes
XUEWEN SHU
- 09.45 – 10.00 Oral 3-1B-6
(conf07a030) A New Design Method for FBG Sensor Module
CHIN YI LIAW, JIANZHONG HAO, ZHAOHUI CAI, JUN HONG NG, JAYACHANDRAN MANIYERI, SHIRO TAKAHASHI
- 10.00 – 10.15 Oral 3-1B-7
(conf07a493) Analysis of High Bandwidth-Delay Product OBS Networks
PENG SHUPING

Poster Session

Session 1-A

Time: 10.10--10.50

- P1A-1**
(conf07a121) Band-Stop Filters Based on Sampled Long-Period Fiber Gratings
XINYONG DONG, NINGNING PAN, PING SHUM, CHI CHIU CHAN
- P1A-2**
(conf07a093) Polarization Independent Acousto-optic Filter in Photonic Crystal Fibers by Using a Fiber Loop
CHUN-LIU ZHAO, WEI JIN, L CHENG
- P1A-3**
(conf07a425) Investigation of Patch Antenna Based on Photonic Band-Gap Substrate with Heterostructures
LI ZHENGHUA
- P1A-4**
(conf07a075) Wide-Band Continuous Tunable Delays Using Supercontinuum and Dispersion
JINGCHAN YIN, XIAOSHENG XIAO, CHANGXI YANG
- P1A-5**
(conf07a445) Analysis and Design of Service Management for EPON and WiMAX Convergence Network
MIAO LV, XUE CHEN
- P1A-6**
(conf07a128) The Research of Location Configuration Model with MIMO-Based Beam Beacon Communication
ZHAO PING, JI QIANQIAN, CHENG SEN, XU LI, WEI YONG
- P1A-7**
(conf07a058) Combined HF Channel Equalization with Hybrid
ZHANG ZHECHUAN
- P1A-8**
(conf07a428) Efficient Scattered Pilot Based Channel Estimation Scheme in OFDM/OQAM-EGF System
GANG YANG, SU HU, GANG WU, SHAOQIAN LI

- P1A-9**
(conf07a405) Achieving Weighted Fairness in Wireless Networks with Multi-Packet Reception
LIU JAIN-SHING
- P1A-10**
(conf07a069) Performance of Co-operative Relay for Multicast Multi-Hop Networks using Virtual MIMO
ADNAN MUHAMMAD
- P1A-11**
(conf07a100) Bidirectional Colorless RSOA Based WDM-PON Utilizing DPSK Signals for Downstream
ZHANG JINNAN, YUAN XUEGUANG, GU YUE, ZHANG YANGAN, HUANG YONGQING, ZHANG MINGLUN
- P1A-12**
(conf07a414) Quantitative Evaluation of Blocking Probability in Automatically Switched Optical Network (ASON) Based on ITU-T Recommendation G.7713
LEI LIU
- P1A-13**
(conf07a049) Investigations into Space-time Coded SVD Based Beamforming for a MIMO system
FENG WANG
- P1A-14**
(conf07a452) All-optical Half- subtracter Based on Semiconductor Optical Amplifier
BINGCHEN HAN, JINGLONG YU, WENRUI WANG, LITAI ZHANG, JUN LUO, BO WU, ENZE YANG
- P1A-15**
(conf07a446) An method for Learning Dependency in distributed application
YUNCHUN LI, YIN YIN, WEI LI

Session 1- B

Time: 15.40--16.20

- P1B-1**
(conf07a480) Fabrication of Long-Period Grating Based In-Fiber Reflection-Mode Biosensors
YANGCHUN WANG, MENG JIANG, A.PING ZHANG, WEISHENG LIU, YINBING BAI
- P1B-2**
(conf07a154) Trust Utilization for Routing Robustness in Multipath Wireless Ad hoc Networks
YANLI WANG, SHREY AJMERA, ANIKET PATANKAR, CHUNMING QIAO
- P1B-3**
(conf07a470) A novel optoelectronic oscillator based on dual-lasers
BO WU, JINLONG YU, HAO HU, WENRUI WANG, BICHEN HAN, JUN LUO, LITAI ZHANG, GUO JZHONG
- P1B-4**
(conf07a118) Passive harmonically mode-locked fiber ring laser with long single-mode fiber
ZUXING ZHANG
- P1B-5**
(conf07a084) Application of REO-AODV Protocol in Mobile Wireless Sensor Networks
NIAOQING LIU, JIAN CHEN, YONGHONG KUO
- P1B-6**
(conf07a363) Approaching Optimal Performance for IEEE 802.11 DCF in Non-Saturation Conditions
BO LI
- P1B-7**
(conf07a038) The Research and Implementation of Heterogeneous Data Integration under Ontology Mapping Mechanism
HAI ZHANG
- P1B-8** Analyzing the Probability Density Distribution of Phase Noise in Fiber-optic

- (conf07a149) Links
SHAOKANG WANG, LIXIA XI
- P1B-9**
(conf07a028) The application of dynamic bandwidth allocation algorithm in DiffServ mode of PTN equipment
HAN DAHAI
- P1B-10**
(conf07a048) An Unbalanced DPSK Polarization Division Multiplexing system and its Tolerance to Polarization Mode Dispersion
XINYUAN ZHAO, XIAOGUANG ZHANG
- P1B-11**
(conf07a039) Distributed Optical Fiber Sensor System for Coal Mine Applications
JIANFENG WANG, XIANGDONG YU, HONGLIN LIU
- P1B-12**
(conf07a491) Improved Modeling of a Membrane Separation Process through RBF Neural Networks: Hydrogen Recovery from Refinery Gases
LEI WANG, WENCAI DU
- P1B-13**
(conf07a434) Research of Decoded Stopping Criterion of LDPC Codes
WEI HAN, JIANGUO HUANG
- P1B-14**
(conf07a379) Bionic Evolution and its Application in Immune IDS
ZHOU XUANWU
- P1B-15**
(conf07a380) Proxy Authorization Signature with Additional Property
ZHOU XUANWU
- P1B-16**
(conf07a492) A Power Control Method for Wireless Sensor Networks
YOU Ling ZHOU, WENCAI DU, BENXIONG HUANG
- P1B-17**
(conf07a114) Modeling the Multifractal Nature of Network Traffic
LI YU, BO ZHAO, ZUHAO LIU
- P1B-18**
(conf07a139) Phase regeneration of optical differential 8-level phase-shift keying signals based on phase-sensitive amplification
XIANFENG TANG, XIAOGUANG ZHANG, LIXIA XI
- P1B-19**
(conf07a156) Influence of the Wire Width on the Frequency Characteristics of Hexagon Array
XINGFANG LUO, HUAQIANG YANG
- P1B-20**
(conf07a487) Determination of Planar Optical Waveguide Refractive-Index Profiles with the Cubic Spline Function Interpolation Algorithm
YE ZHIQING, YE FAN, ZHANG XINJIAO

Session 2- A

Time: 10.30--11.00

- P2A-1**
(conf07a097) A New Framework for Accessing Trusted Network
WANG JIAN, LIU YANHENG, JIA XIANGPENG, LIU XIAOMIN
- P2A-2**
(conf07a144) NCut Image Segmentation and Support Vector Machine Classifier for Computer Aided Diagnosis
HONGMEI XIE, LIAN YU, JINYE PENG
- P2A-3**
(conf07a140) Multiple features human face tracking based on particle filter
HAITAO YAO, FUXI ZHU, CHANGSHENG GONG, ZHIYI YIN

- P2A-4**
(conf07a395) Multiple access DS-UWB using linear chirp encoding waveforms
ZHOU JIN, ZHAO QIDA
- P2A-5**
(conf07a047) A 0.2GHz-3.2GHz Tuning Range High SFDR BiFET Active Filter Using 0.35 um SiGe BiCMOS Technology
DENG WEI, MA JIANGUO
- P2A-6**
(conf07a421) Simulation and Analysis of a Novel Tunable Phase-shift Fiber Bragg Grating Consisted of a Uniform FBG and Mirror
XUFENG LIN, XIAOPENG DONG
- P2A-7**
(conf07a096) Time and Frequency Estimation in Distributed MIMO-OFDM Systems
LIU GANG, GE JIANHUA, GUO YI
- P2A-8**
(conf07a417) SIP Service Composition in IMS
SHANMUGALINGAM SIVASOTHY, GYU MYOUNG LEE, NOEL CRESPI
- P2A-9**
(conf07a458) Low Dose Radiation Monitoring Based on PMMA Optical Fibres for Radiotherapy Dosimetry
S. O'KEEFFE, E. LEWIS, A. SANTHANAM, J.P. ROLLAND
- P2A-10**
(conf07a463) On Optimum Power Allocation for 2x2 V-BLAST System
SEUNG HYUN OH, DONGWEON YOON, SANG KYU PARK, HO YONG LEE
- P2A-11**
(conf07a099) Protocol Design Issues in WLAN
MUHAMMAD AKBER FAROOQUI
- P2A-12**
(conf07a474) Chip Design of a UWB, High Gain and Low Noise Amplifier for Wireless Applications
JHIN-FANG HUANG
- P2A-13**
(conf07a142) A Robust Multiuser Detector for MC-CDMA Systems with Carrier Frequency Offset
TSUI-TSAI LIN
- P2A-14**
(conf07a494) Eclipse-fiber for Evanescent Field Sensing
CAROLA STERNER, JUNQIANG ZHOU
- P2A-15**
(conf07a495) A Novel Spectrum Beam Combing Scheme by Using Arrayed Fiber Grating Structure
HAIRONG LIU