

# WOCN2011 Conference Program Paris – France

## Tutorials

### 24<sup>th</sup> of May

Entire day Tutorials at: **ESIEA Paris, 9 rue Vesale 75013 Paris, FRANCE**

#### Morning Tutorials

9:00 am - 12:00 pm

#### Tutorial 1

**Title: From the Identification of People to the Identification of Things**

**Dr. Hervé Chabanne**

*Morpho (former Sagem Sécurité)*

#### Tutorial 2

**Title: Cross-Layer Architecture and Design Approaches for Optical Networks**

**Dr. Balagangadhar G Bathula (Bala)**

*Post Doctoral Research Scientist, Lightwave Research laboratory, Department of Electrical Engineering, Columbia University, New York, NY, USA*

#### Afternoon Tutorials

2:00 pm - 5:00 pm

#### Tutorial 3

**Title: Optical Communications Networks and Devices**

**Professor Dr. Alok Kumar Das**

*Electronics & Communication Engineering Deptt.  
Jadavpur University, Kolkata-700 032, India*

## **25<sup>th</sup> of May**

Location: **ESIEA Paris, 9 rue Vesale 75013 Paris, FRANCE**

9:00 am - 9:15 am

### **Welcoming and Opening remarks**

Assoc. Prof. Vincent Guyot  
Professor Dr. Alok Kumar Das

### **Keynote Speaker:**

#### **Prof. Perry Ping Shum**

*Director, Network Technology Research Centre  
Nanyang Technological University, Singapore*

**Title: Fiber Laser and It's Telecommunication Applications**

#### **Dr. Tang Ming**

*Professor, School of Optoelectronics Science and Engineering  
National Engineering Laboratory for Next Generation Internet Access System (NEL-NGIAS)  
Huazhong University of Science and Technology / Wuhan National Laboratory for Optoelectronics (WNLO)*

**Title: Convergence of Fiber Lasers and Terahertz-Wave for Sensing and High Speed Wireless Communication Applications**

### **Coffee Break**

11:00 am -  
12:30 pm

#### **Session 1: Wireless Communications and Networking WCN/WLAN/WiMAX**

UMTS User Identity Confidentiality An End-to-End Solution  
*by Hiten Choudhury, Basav Roychoudhury, Dilip Kr. Saikia*

Protocol Aware Shot-Noise based Radio Frequency Jamming Method in 802.11 Networks  
*by Abid Hussain, Nazar Abbas Saqib*

Increasing the Reliability of Wireless Sensor Network with a New Testing approach Based on Compressed Sensing Theory  
*by Mohammadreza Balouchestani, Kaamran Raahemifar, Sridhar Krishnan*

Wireless Integrated Robots for Effective Search and Guidance of Rescue Teams  
*by Josh D. Freeman, Vinu Omanan, Maneesha V. Ramesh*

#### **Session 2: Optical Communications and Networking OCN**

Throughput Analysis of Multi-input & Single-output Channels in Core Routers of Optical Burst Switching Networks  
*by Jubin Hazra, Biswajit Das, Soumyanil Banerjee, Saptarshi Mallick, Alok K Das, Avranil Das*

Routing and Signaling in GMPLS based DWDM Multi Domain Multilayer Networks using IP/WDM Router  
*by Wajdi Halabi, Kris Steenhaut, Ann Nowé, Pasquale Gurzi*

Bending Loss Characterization Under Temperature Variations Of ITU-T G.657 Optical Fiber Standard For Its Implementation In The Last Mile  
*by Noé Ortega-Quijano, Guillermo Lamadrid-Perojo, Miguel Alejandro Rodríguez-Colmenares, Félix Fanjul-Vélez, Irene Salas-García, Susana Cámara, José L. Arce-Diego*

Reduction of Energy Consumption of Video-on-Demand Services using Cache Size Optimization  
*by Niemah I. Osman, Taisir El-Gorashi, Jaafar M. H. Elmirghani*

12:30 pm -  
2:00 pm  
2:00 pm -  
4:00 pm

## **Lunch**

### **Session 3: Mobile Communications/Wireless/Mobility**

Performance Evaluation of Speex Audio Codec for Wireless Communication Networks  
*by Pooja Srivastava, Kishore Babu, Tejaswi OSV*

SHIM6-Based Mobility Management for Multi-homed Terminals in Heterogeneous Environment  
*by Amel Achour, Brigitte Kervella, Guy Pujolle*

Simulation and Evaluation of Routing Protocols in Vehicular Ad Hoc Network  
*by Majid Shakeri*

Adaptive Equalizer and Compensation of ICI in the Wireless Repeater System  
*by Haeseong Jeong, Heung-Gyoon Ryu*

Modified Reliable Timeout Based Commit Protocol  
*by Bharati Harsoor, S. Ramachandram*

### **Session 4: Information and Communications Technologies**

Design and Performance Analysis of QAPM Modulation in Multi-Path Channel  
*by Jae-Hoon Choi, Heung-Gyoon Ryu*

*p*-persistent CSMA as a Collision Resolution Protocol for Active RFID Environments  
*by Leonardo D. Sánchez M., Víctor M. Ramos R.*

Analysis of Balanced Cycles of QC-LDPC Codes  
*by Gao Xiao, Zhang Nan*

Optimization between Throughput and Fairness in WiMAX Network  
*by Muhammad Yasir, Adnan K Kiani*

A Ka-band Triple Push Coupled Pair VCO using 0.18- $\mu\text{m}$  CMOS Technology  
*by H. L. Kao, S. P. Shih, C. S. Yeh, C. M. Yang, C. Y. Ke, Y. C. Lee, Jeffrey S. Fu, L. C. Chang*

4:00 pm -  
4:30 pm  
4:30 pm -  
5:30 pm

## **Coffee Break**

### **Session 5: Mobile Ad-Hoc and Sensor Mesh Networks**

A Cooperative Retransmission Strategy for Error-prone Wireless Networks  
*by Yun Li, Qing Huang, Wei Huang*

Cooperation Mode Selection for Maximizing Throughput in Wireless Networks  
*by Yun Li, Xiaofen Zhu, Weiliang Zhao*

Saving Energy with QoS for Vehicular Communication  
*by Hamdi Idjmayyel, Wanod Kumar, Bilal R. Qazi, Jaafar M. H. Elmirghani*

### **Session 6: Network Management and Services**

Autonomic Policy-based HAN Traffic Classification using Augmented Meta Model for Policy Translation  
*by Annie Ibrahim Rana, Brendan Jennings, Micheál Ó Foghlú, Sven van der Meer*

Experimental Study of Mismatching ESS-Subnet Handoffs on IP over IEEE 802.11 WLANs  
*by Li-Hsing Yen, Hung-Hsin Chang, Shiao-Li Tsao, Chia-Chi Hung, Chien-Chao Tseng*

Energy-Efficient Scheduling Scheme Using Reinforcement Learning in Wireless Ad Hoc Networks  
*by Malika Bourenane*

6:30 pm -  
9:30 pm

## **Banquet Dinner**

Dinner Location : **will be announced**

## **26<sup>th</sup> of May**

Location: **ESIEA Paris, 9 rue Vesale 75013 Paris, FRANCE**

9:00 am - 9:30 am

### **Invited Talk**

**Speaker: Dr. Durgesh Kumar Mishra**

*Professor (CSE) and Dean (R&D), Acropolis Institute of Technology and Research, Indore, MP, India*

**Title: Privacy Preservation in Wireless Sensor Networks using Secure Multi-party Computation**

9:30 am - 10:30 am

### **Panel Session**

**Panel Title: Quality of Service (QoS) Performance and Switching Implementation in Optical Network**

10:30 am - 11:00 am

### **Coffee Break**

11:00 am -  
12:30 pm

#### **Session 7: UWD/RFID/OFDM and NANO/BIO**

A Noncoherent UWB Scheme using Frequency Shifted Reference and PPM  
*by Salar Bybordi, Said Nader-Esfahani*

Bandwidth Enhancement of Coplanar Waveguide Fed Disc Monopole Antenna for Ultra-Wideband Communication Applications  
*by Abbas E. Teirab, Joseph A. Jervase, Saleh S. Mneina*

Demonstration of Low-cost Architectures for UWB Pulse Generation  
*by Richard Thai-Singama, Frédéric Du-Burck, Marc Piette*

Group-Oriented Multiuser Beamforming-OFDM for Different QoS Requirement  
*by Dong Hyung Lee, HuiKyu Lee, Heung-Gyoon Ryu*

Comparative Study of the Influence of Scattering Particles Size on the Polarimetric Behavior of Turbid Media  
*by Jesús de Cos-Pérez, Noé Ortega-Quijano, Félix Fanjul-Vélez, Irene Salas-García, José L. Arce-Diego*

#### **Session 8: Simulation, Modeling, Analysis and Performance Evaluations I**

OpenFlow Supporting Inter-Domain Virtual Machine Migration  
*by Bochra Boughzala, Racha Ben Ali, Mathieu Lemay, Yves Lemieux, Omar Cherkaoui*

A New BER-based Approach to Improve OLSR Protocol  
*by Tiguiane Yélémou, Philippe Meseure, Anne-Marie Poussard*

Performance Analysis of Mesh Routing Algorithm for Routing Metrics Link Capacity and Delay Against Inter-arrival Time Dependencies  
*by J. B. Helonde, Vijay Wavhai, V. S. Deshpande, L. B. Bhagwat*

Optimal Scheduling and Resource Allocation Using Hierarchical Modulation in Wireless Networks  
*by Mehmet Karaca, Ozgur Ercetin*

HC-IPSAG Cognitive Radio Routing Protocol: Models and Performance  
*by Cornelia-Ionela Bădoi, Victor Croitoru, Adrian Popescu*

12:30 pm -  
2:00 pm

### **Lunch**

2:00 pm -  
4:00 pm

### **Session 9: Simulation, Modeling, Analysis and Performance Evaluations II**

Establishing Paths on Hierarchical Logical Topologies in OCDM Networks  
*by Tatsuya Fukuda, Keni-ich Baba*

TRG: Trading Rate for Good-put in Wireless Multimedia Sensor Networks  
*by Muhammad Hassan, Hassan Abid, Saad Qaisar*

Antenna Propagation and Simulation a Tree Antenna by Super NEC Software  
*by Firouz Mohseni fard*

FPGA-Based MIMO Testbed for LTE Applications  
*by Md. Abdul Latif Sarker, Moon Ho Lee*

A Distributed Communication System for an Airport Environment  
*by Imad E. Ahmed, Bilal R. Qazi, Jaafar M. H. Elmirghani*

Energy and QoS for Vehicular Communication in a Motorway Environment  
*by Adnan Muhtar, Wanod Kumar, Bilal R. Qazi, Jaafar M. H. Elmirghani*

### **Session 10: Quality of Service, Traffic Management and Dynamic Spectrum Access Networks**

An Adaptive Hold-off Algorithm in WiMAX Mesh Networks with Coordinated Distributed Scheduling  
*by Termeh Tabarsi, Siavash Khorsandi*

QoS Routing Algorithm Based on Traffic Classification in LEO Satellite Networks  
*by JIANG Wenjuan, ZONG Peng*

Two Layer Channel Aware Scheduling for QoS Support in IEEE 802.16/WiMAX Networks  
*by Mohamed Y. Sleem, Hesham M. ElBadawy, Mohamed S. Abo-El-Seoud*

Equilibrium Strategies in a Channel Sensing Game in Cognitive Radio Networks  
*by Ömer Korçak*

Multiple Attribute Dynamic Spectrum Decision Making for Cognitive Radio Networks  
*by E. Rodriguez-Colina, C. Ramirez P., C. Ernesto Carrillo A.*

4:00 pm -  
4:30 pm  
4:30 pm -  
5:30 pm

### **Coffee Break**

### **Session 11: Optical Passive and Active Components and Devices**

Tunable Microwave Generation Based on a Phase-Shifted Chirped Fiber Bragg Grating  
*by Bo Lin, Meng Jiang, Swee Chuan Tjin, Perry Ping Shum, Yao Ge, Yan He*

Temperature Measurement using a Fused Optical Fiber Coupler in Arc Environment  
*by Avranil Das, Biplab K. Ray, Alok K Das*

### **Session 12: Simulation, Modeling, Analysis and Performance Evaluations III**

Adaptive Design of Tracking Area List in LTE  
*by Yun Won Chung*

Performance Evaluation of Reactive and Proactive Routing Schemes for Infrastructure Wireless Mesh Networks  
*by C. Ernesto Carrillo A., Victor M. Ramos R.*

Evaluation of Throughput Optimization and Load Sharing of Multipath TCP in Heterogeneous Networks  
*by Sinh Chung Nguyen, Xiaofei Zhang, Thi Mai Trang Nguyen, Guy Pujolle*

**End of the program**