

# Preliminary AH-ICI2012 Conference Program

23<sup>rd</sup> of November

## Tutorials, Entire day of 23<sup>rd</sup> of November:

The AH-ICI2012 conference and conference tutorials, on the 23<sup>rd</sup> of November, will be presented at the following location:

Institute of Engineering IOE, Kathmandu, Nepal

Dept. of Electronics and Computer Engineering,

Block B, Institute of Engineering, IOE, Pulchowk Campus, Pulchowk, Nepal.

Phone: 977-1-5534070.

### T1 – Morning

Title: [Online Game Systems - A Networking Perspective](#)

Professor Dr. Magda El Zarki, Department of Computer Science University of California, Irvine, USA

### T2 – Afternoon

Title: [Optical Communications Networks and Devices](#)

Professor Dr. Alok Kumar Das, Gargi Memorial Institute of Technology, Kolkata, India

### T3 - Afternoon

Title: [Near Shannon Limit Channel Codes: Modified Turbo Codes](#)

Professor Dr. Prakash D. Vyavahare, Department of Electronics and Telecom. Engg. S. G. S. Institute of Technology and Science, INDORE (M. P.)

24<sup>th</sup> of November

**Location: Institute of Engineering IOE, Kathmandu, Nepal  
Pulchowk Campus, Pulchowk, Kathmandu Nepal.  
Phone: 977-1-5534070.**

**Welcoming & Opening remarks**

8:30 - 10:00 AM

## **Keynote/Invited Speeches**

(1) **Topic: Public Service Delivery: Reinventing Government Process**

*by Prof. Timila Yami Thapa*

**Department of Electronics and Computer Engineering, Institute of Engineering,  
Pulchowk, Nepal**

(2) **Topic: Privacy and Security Issues in current Computing Paradigms: A Global Perspective**

*by Dr. Durgesh Kumar Mishra*

**Professor (CSE) and Dean (R&D), Sri Aurobindo Institute of Technology, Indore, MP,  
India, Visiting Professor IIT Indore.**

10:00 - 10:30 AM **COFFEE/TEA BREAK**

10:30 AM - 12:30 PM

**Institute of Engineering IOE**

**Session 1: Wireless Communications and Networking / Mobility and Mobile Communications**

**Session Chair: Dr. Sanjeeb Prasad Panday, Assistant Professor, Institute of Engineering, Pulchowk Campus, Tribhuvan University**

A QoS Framework for Heterogeneous Network

*by Mashuque Enam, Faiek Haque, Eng. Abdul Awal*

Mobility and its Impact on Performance of AODV and DSR in Mobile Ad hoc Network

*by Banoj Kumar panda, Bibhudatta Dash, Rupanita Das, Ajit Sarangi*

The Impact of Message Lifetime on Delay-Tolerant Networks with Non-Cooperative Nodes

*by Ravi Theja, Yanda Ramesh*

Global Optimization of Field Based Routing in Wireless Mesh Network (GOFBR-WMN)

*by Saroj Shakya, Shiva Raj Pokhrel*

4G Revolution: WiMAX Technology

*by Sarla More, Durgesh Kumar Mishra*

12:30 – 13:30 PM

**LUNCH**

13:30 – 15:00 PM

**Session 2: E- and M- Commerce, Health Care and Home Networking, Optical Communications and Networking / Optical Passive and Active Components and Devices**

**Session Chair: Dr. Arun K. Timalina, Institute of Engineering of Tribhuvan University, Kathmandu, Nepal and Professor Bhupendra B. Chhetri, Kathmandu University**

Seaport Logistics Information Sharing Platform in E-commerce: A Case Study of QDIP in China  
by *ShuHai Zhao, Wei Liang, Dan Han*

Privacy, Security and Storage Issues in Medical Data Management  
by *Sabita Khadka*

Case-Based Reasoning In Neurological Domain  
by *Susma Pant, Shashidhar Ram Joshi*

Rib Structures in Card to Backplane Optical High Speed Interconnect Couplers and Related Sensitivity for Computer Motherboards  
by *Alok K Das, Biplab K Ray*

15:00 – 15:30 PM

**COFFEE/TEA BREAK**

15:30 – 17:00 PM

**Session 3: Mobile Ad-Hoc and Sensor Mesh Networks, WLAN/WiMAX, Application of information and Communications Technologies**

**Session Chair: Professor Dr. Magda El Zarki, Department of Computer Science University of California, Irvine, USA**

Coordinate Based Routing Algorithm for Wireless Sensor Networks  
by *Anil Kumar Karna*

Study and Comparison of Edge Detection Algorithms  
by *Shashidhar Ram Joshi, Roshan Koju*

Off-line Nepali Handwritten Character Recognition Using Multilayer Perceptron and Radial Basis Function Neural Networks  
by *Ashok Kumar Pant, Sanjeeb Prasad Panday, Shashidhar Ram Joshi*

Performance Evaluation of PAPR Reduction in Multicarrier System by PTS and SLM Methods  
by *Hariom Dhungana, Sushil Kumar Sah, Saroj Shakya*

17:00 PM **Panel Session**

**Panel Title: Compact Waveguide Devices and Switching Implementation in Optical Network**

**Panel Chair: Professor Dr. Alok Kumar Das, Gargi Memorial Institute of Technology Kolkata, India**

25<sup>th</sup> of November

**Location: Location: Institute of Engineering IOE, Kathmandu, Nepal  
Pulchowk Campus, Pulchowk, Nepal.  
Phone: 977-1-5534070.**

8:30 - 10:00 AM

### **Key Note/Invited speeches**

**Topic: Improvement of Algorithm in the Particle Tracking Velocimetry**

*by* Prof. Dr. Sashidhar Ram Joshi, Head of the Department of Electronics and Computer Engineering, Institute of Engineering, Pulchowk Campus, Nepal

**Topic: e-Commerce Metamorphosis in Developing Countries: Brick-and-mortar Retailing to m-Commerce**

*by* Assistant Professor Dr. Arun K. Timalisina, Electronics & Computer Engineering Department, Institute of Engineering of Tribhuvan University, Kathmandu, Nepal

10:00 - 10:30 AM

### **COFFEE/TEA BREAK**

10:30 AM - 12:30 PM

**Session 4: Simulation, Modeling and Analysis and Performance Evaluations /Architectures, Devices and Security and Privacy**

**Session Chair: Professor Dr. Prakash D. Vyavahare, Department of Electronics and Telecom. Engg. S. G. S. Institute of Technology and Science, INDORE (M. P.)**

Some Guidelines for Queue Management in High-Speed Networks  
*by Ganesh Patil, Gaurav Raina*

Solving Minimum Steiner Tree Based on Behavior of Ants  
*by Narendra Maharjan, Abinash Shrestha, Ashish Tamrakar, Sanjeeb Prasad Panday*

Characterization and Optimization of Sigma-Delta ADC  
*by Preeti Trivedi, Ajay Verma, Pritish Tripathi*

Wavelet Transform to Recognize Muscle Fatigue  
by *R. Chowdhury, M. B. I. Reaz, M. T. Islam*

Anomaly Detection using Support Vector Machine Classification with k-Medoids Clustering  
by *Roshan Chitrakar, Huang Chuanhe*

12:30 – 13:30 PM

### **LUNCH**

13:30 – 15:00 PM

### **Session 5: Wireless / Mobile Communications and Networking**

**Session Chair: Dr. Durgesh Kumar Mishra, Professor (CSE) and Dean (R&D), Sri Aurobindo Institute of Technology, Indore, MP, India, Visiting Professor IIT Indore**

Design and Implementation of Partial Mesh Community Wireless Network in Himalayan Region  
by *Dambar Raj Paudel, Kazuhiko Sato, Bishnu Prasad Gautam, Dibesh Shrestha*

Novel Approach for Interference Management in Cognitive Radio  
by *Sapan Raj Aryal, Hariom Dhungana, Kundan Paudyal*

A MAC Protocol to Select Optimal Transmission Mode in Very High Throughput WLAN:  
MU-MIMO vs. Multiple SU-MIMO  
by *Anup Thapa, Seokjoo Shin*

Performance Evaluation Of Various WiMAX Schedulers Under Triple Play Services  
by *Anju Lata Yadav, P.D.Vyavahare, P.P.Bansod*

Adaptive Encoding Scheme for Real-time Video Streaming Over Mobile Networks  
by *Kai Yan Lau, Joe C.H. Yuen, Edward Chan, Kam-Yiu Lam*

15:00 – 15:30 PM

### **COFFEE/TEA BREAK**

15:30 – 17:00 PM

### **Session 6: Information and Communications Technologies**

**Session Chair: Professor Dr. Alok Kumar Das, Gargi Memorial Institute of Technology, Kolkata, India**

Adaptive Directional Wavelet Transform based on Edge Directed Interpolation for Image Coding  
by *Ramesh Kumar Lama, Goo-Rak Kwon*

E-government Security Readiness Assessment for Developing Countries.  
Case study: Nepal Govt. Organizations  
by *Pranita Upadhyaya, Subarna Shakya, Manish Pokharel*

Web Forum Mining Based on User Satisfaction  
by *Suresh Pokharel, Sumanta Guha*

Performance Analysis of Medical Image Compression Techniques  
by *Smitha Joyce Pinto, Jayanand P.Gawande*

**END OF THE CONFERENCE PROGRAM**