

ICT Virtual Organization of ASEAN Institutes and NICT ASEAN IVO Forum 2015

Program

Date: Nov. 26 (Thu), 2015

Venue: Sentral Ballroom, Hilton Kuala Lumpur, Kuala Lumpur, Malaysia.

09:00 Opening Address
Datuk Abdul Wahab Abdullah
President & CEO, MIMOS Berhad

09:15 Introduction of ASEAN IVO
Fumihiko Tomita
Chief Research & Strategy Officer, Vice President, NICT

09:30 Session 1: Internet of Things, Big Data and Social Applications 1
Chairman: Choong Foo Boon, MIMOS

IoT Open Innovation Platform
Choong Foo Boon, Chin Teong Looi
MIMOS, Malaysia

Research and Development of Internet of Things enabling technologies for personal health care applications.

Dzung Van Dinh
VNU-ITI, Vietnam

Cloud Centric Participatory Mobile Sensor Network for IoT
Sumei Sun
I2R, Singapore

Internet of Things: Cloud Computing, Security and Research Area
Thu Ngo-Quynh,
HUST, Vietnam

Cloud and Big Data Infrastructure
Tuyet-Trinh Vu, Binh-Minh Nguyen, Viet-Trung Tran
HUST, Vietnam

10:45 Break

11:00 Session 2: Internet of Things, Big Data and Social Applications 2
Chairman: Myint Myint Sein, UCSY

ICT for food security - an application for rice in ASEAN countries
Viet Son Nguyen, Thi-Lan Le, Hai Vu, Thanh-Hai Tran, Thi-Thuy Nguyen
MICA, HUST, Vietnam

Automatic Urban Growth Detection for City Development
Khaing Cho Moe, Myint Myint Sein
UCSY, Myanmar

Nearest Neighbors Public Services Search System for Myanmar Land
Su Nandar Aung, Myint Myint Sein
UCSY, Myanmar

Software Defined System for Disaster Management and Environmental Monitoring
Hiroaki Yamanaka
NICT, Japan

Establishment of ASEAN Open Source Software Portal
Hong Quang Nguyen, Ngoc Binh Nguyen
VNU-IFI, Vietnam

12:15 Lunch

13:15 Session 3: Sensing, Networks and Infrastructure 1
Chairman: Hafizal Mohamad, MIMOS

Indoor Navigator for the Visibly Impaired
David Chieng, SehChun Ng, Alvin Ting, Mohd Faiz Mat Daud
MIMOS, Malaysia

A Real-Time Indoor Position Tracking System Using IR-UWB
Huan-Bang Li, Toshinori Kagawa, Ryu Miura
NICT, Japan

Design and Implementation of Power Detector and UHF Converter for TVWS
Application
Nordin Ramli*, Tengku Azhar Long Sulaiman*, Hafizal Mohamad*,
Takeshi Matsumura**, Kentaro Ishizu**
*MIMOS, Malaysia, **NICT, Japan

TV White Space Technologies and Social Deployments
Kentaro Ishizu
NICT, Japan

14:15 Break

14:30 Session 4: Sensing, Networks and Infrastructure 2
Chairman: Tetsuya Kawanishi, NICT

Dedicated Moderate Range Communications for future infrastructure
Tetsuya Kawanishi
NICT, Japan

RF Energy Harvesting for future communications
Tan Hanh, Vo Nguyen Quoc Bao
PTIT, Vietnam

Optoelectronic component characterization for seamless access communication
Ukrit Mankong
Chang Mai U, Thailand

Laser Transmitter Adaptive Feedforward Linearization System for Radio over Fiber Applications
Yun Sheng Neo*, Sevia Mahdaliza Idrus*, Mohd Fua'ad Rahmat*, Atsushi Kanno**
*UTM, Malaysia, **NICT, Japan

Research on Optical Access Network
Duang-rudee Worasuchep*, Naoya Wada**
*Chulalongkorn University, Thailand, **NICT, Japan

15:45 Break

16:00 Session 5: Sensing, Networks and Infrastructure 3
Chairman: Rapid Sun, NIPTICT

NerveNet: A Regional-Area Self-Dependent Network System Providing Resilient and Secured Local Information Sharing and Communications for Empowering ASEAN
Masugi Inoue*, Yasunori Owada*, Kiyoshi Hamaguchi*, Chamnan Meas**, Rapid Sun**, Sethserey Sam**, Sopheap Seng**
*NICT, Japan, **NIPTICT, Cambodia

Cambodia NerveNet Field Testing
Sopheap Seng*, Sethseary Sam*, Rapid Sun*, Chamnan Meas*, Masugi Inoue**, Yasunori Owada**, Kiyoshi Hamaguchi**
*NIPTICT, Cambodia, ** NICT, Japan

NerveNet- A Conventional Network Connection for Rural Areas
Sethserey Sam, Rapid Sun
NIPTICT, Cambodia

VENGME H.264/AVC – A Low Power 130nm H.264/AVC Compatible Video Encoder for Next Generation Multimedia Equipment
Xuan-Tu Tran, Duy-Hieu Bui, Ngoc-Mai Nguyen, Nam-Khanh Dang, Van-Huan Tran, Viet-Thang Nguyen
VNU-UET, Vietnam

17:00 Break

17:15 Session 6: Universal Speech Translation
Chairman: Ai Ti AW, I2R

Open collaboration for developing and using Asian Language Treebank (ALT)
Masao Utiyama, Eiichiro Sumita
NICT, Japan

Myanmar NLP research and Usefulness of ALT data
Khin Mar Soe

UCSY, Myanmar

Current status of Vietnamese Treebank development, usefulness of collaboration with Asian Language Treebank

Tat Thang Vu, Chi Mai Luong
IOIT, Vietnam

Bootstrapping Asian Language Treebank (ALT) using Indonesian language resource

Hammam Riza Gunarso, Teduh Uliniansyah
BPPT, Indonesia

Mining parallel corpora for multilingual machine translation system

Viet Son Nguyen, Diep Do Thi Ngoc
MICA, HUST, Vietnam

ASEAN Language Speech Translation through U-STAR

Ai Ti Aw, Haizhou Li
I2R, Singapore

18:45 Closing

Fumihiko Tomita

Chief Research & Strategy Officer, Vice President, NICT

19:00 Reception