



CONNECT2SEA Workshop on ICT Research and Innovation for Sustainable Economic and Social Development in ASEAN

Hanoi, Vietnam, 9-10 May 2016

<http://www.mica.edu.vn/RISE2016/>

The second day of the Workshop is organized as part of the ASEAN-EU STI Days

Organizers:

F. Lamnabhi-Lagarrigue (CNRS-INS2I), Eric Castelli (CNRS-MICA), Dao Trung Kien (CNRS-MICA), Sebastian Engell (TUDO) and Svetlana Klessova (Inno TSD).

Scope:

Sustainable economic development and social development are major concerns worldwide, but the challenges arising from them differ in different regions of the world. These challenges are likely to not only have a strong impact on issues related to urban quality such as housing, economy, culture, social and environmental conditions but also on rural daily life. Information & Communications Technologies (ICTs) provide a major contribution to the creation of jobs and generate economic growth; they provide better goods and services for all; and build on the greater empowerment which digital technologies can offer in order to create a better world, both now and for future generations.

Objectives:

- To bring together European and ASEAN experts and PhD students for brainstorming and exchange of very recent ICT research and developments as well as societal challenges to discuss their social impact;
- To reinforce and increase ICT research and innovation collaborations between EU and ASEAN in these domains with particular attention on specificities in ASEAN countries;
- To contribute to the reinforcement of collaborative research links between EU and SEA ICT specialists.

State of the art and research perspectives on **five topics** will be presented by invited experts with dedicated time for discussions and exchange. Some talks and posters might be added to the tentative programme (see below) from the outcome of the SEA-EU-NET Call for papers and posters.

On 9 May 2016, HUST- Hanoi University of Science and Technology:

- **Topic 1:** Energy efficiency and reduction of pollution by ICT
- **Topic 2:** Building management and control
- **Topic 3:** E-services: promoting access to ICT for economic and social development

On 10 May 2016, ASEAN-EU STI Days, Melia Hotel:

- **Topic 4:** Smart cities & ICT systems for rural areas
- **Topic 5:** Water systems management



9:00	9:30	Welcome
9:30	10:00	Opening talks
Energy efficiency and reduction of pollution by ICT		
Chair: Sebastian Engell		
10:00	10:30	Jesus-Javier Gil Quijano (CEA, France), <i>"Artificial intelligence for the distributed management of energy systems"</i>
10:30	11:00	An Pham Duy (CleanED Lab, Hanoi), <i>"Keynote on energy efficiency and reduction of pollution by ICT: from today's energy services to tomorrow's smart grid"</i> ,
11:00	11:30	Gilney Damm (CNRS-L2S and Univ. Evry, France) <i>"Smart Grid: Transient stability of the High Voltage Direct Current (HVDC) network"</i> .
11:30	11:50	Paisan Kittisupakorn (Chulalongkorn University, Bangkok, Thailand), <i>"Energy optimization of Steam Gasification in a Fluidized Bed Reactor by computer simulation studies"</i>
11:50	12:10	Marc Kalliski (Tech. Univ. Dortmund, Germany), <i>"Definition and visualisation of resource efficiency indicators for decision support"</i>
12:10	13:50	Lunch
Building management and control		
Chair: Stephane Bressan		
13:50	14:20	Stéphane Ploix (Grenoble Institute of Technology, France), <i>"Towards interactive smart-buildings"</i>
14:20	14:40	David Chieng (MIMOS: National R&D Centre in ICT, Kuala Lumpur, Malaysia), <i>"IoT and Indoor Location"</i>
14:40	15:00	Trung Kien Dao (MICA), <i>"A generic platform for adapted computing in public buildings in Smart Cities. Application for blind people guidance"</i>
15:00	15:30	Biplab Sikdar (NUS, Singapur), <i>"Solar Powered Cellular Networks: Issues, Challenges and Solutions"</i>
15:30	16:00	Break
E-services: promoting access to ICT for economic and social development		
Chair: Eric Castelli		
16:00	16:30	Talel Abdessalem (Telecom ParisTech, Holder of the Chair Big Data and Market Insights, NUS visiting senior researcher), <i>"Big Data challenges and use cases"</i>
16:30	16:50	Thi Lan Le (MICA), <i>"Information retrieval service for biodiversity: application to Vietnamese medicinal plant identification"</i>
16:50	17:10	Do Dat Tran (MICA), <i>"Natural language technologies integration on mobile devices. Application to SMS service on smartphones for blind people."</i>
17:10	17:40	Yoan Fauché & Arnaud Douezy (UNIITY, Vietnam), <i>"E-services: anytime, anywhere for everyone"</i>
17:40	18:00	Mohd Azam Osman (Universiti Sains Malaysia), <i>"Local Knowledge Repository Support System and Mangrove Reference Data Centre, in Malaysia"</i>

Date: 10 May 2016

Venue: ASEAN-EU STI Days, Melia Hotel, Hanoi, Vietnam

<http://www.stidays.net/>

<https://www.b2match.eu/stidays2016> (direct registration link)

Smart cities & ICT systems for rural areas		
Chair: Francoise Lamnabhi-Lagarrigue		
8:10	8:40	Maria Fernanda Cabrera (Universidad Politecnica de Madrid), <i>"Promoting active and healthy ageing in the Smart Cities"</i>
8:40	9:00	Mirna Adriani (Fakultas Ilmu Komputer, Indonesia), <i>"Detecting Disease Outbreaks Using Social Media Data in Indonesia"</i>
9:00	9:20	Sopheap Seng (NIPTICT Cambodia), <i>"NerveNet: A Network System Providing Resilient and Secured Local Information Sharing and Communications for Cambodia Rural Area"</i>
9:20	9:50	Stephane Bressan (NUS, Singapour), <i>"Lian Cheng: A Cloud Platform for Scientific Data and Workflow Management for Energy and Environmental Sustainability in Megacities"</i>
9:50	10:10	Tatjana Todorovic (NTU, Singapour), <i>"Smart Cities and the Elderly: Tensions Between Inclusion and Efficiency"</i>
10:10	10:40	Break and 3 posters <ul style="list-style-type: none"> - Rolyn C. Daguil (Caraga State University, Philippines), <i>"Community-based ICT Infrastructure for Local Content Aggregation"</i> - Nur Aini Rakhmawati (Institut Teknologi Sepuluh Nopember, Indonesia), <i>"CITY113: A Mobile Application to Improve Public Participation in Surabaya City Development for Better Governance"</i> - Hoang Van Hiep (Hanoi University, Vietnam) <i>"An Evaluation of the Japanese Quasi-Zenith Satellite System LEX Augmentation Corrections in Vietnam"</i>
Water management		
Chair: Talel Abdessalem		
10:40	11:10	Gabriela Cembrano Gennari (Spanish Research Council, Spain), <i>"Real-time Monitoring and Control in Water Networks"</i>
11:10	11:40	Pantelis Sopasakis (IMT Institute for Advanced Studies Lucca, Italy), <i>"Scenario-based stochastic predictive control of large-scale water networks"</i>
11:40	12:00	Dirk Schwanenberg (Operational Water Management, Deltares, The Netherlands), <i>"Predictability and robust short-term management of water resources systems"</i>
12:00	12:20	Andrea Castelletti (Politecnico di Milano, Italy) <i>"Modeling and managing urban water demand through smart meters, big data and gamified ICT"</i>
12:20	12:50	Sangam Shrestha (Asian Institute of Technology) <i>'Modelling the potential impacts of climate change on hydrology and water resources'</i>
12:50	13:00	Closing

ASEAN countries: Brunei Darussalam, Indonesia, Laos, Myanmar, Malaysia, Myanmar, Philippines, Singapore, Thailand, Vietnam.

