

The 18th e-ASIA Workshop  
“Greener Digital Cities”

November 29 and December 1, 2021

Organized by e-ASIA JRP Secretariat  
and Japan Science and Technology Agency (JST), Japan

Supported by

Ministry of Science and Technology (MOST), Myanmar  
Department of Science and Technology (DOST-PCHRD), Philippines  
Department of Science and Technology (DOST-PCAARRD), Philippines  
Department of Science and Technology (DOST-PCIEERD), Philippines  
Agency for Science, Technology and Research (A\*STAR), Singapore  
National Research Council of Thailand (NRCT), Thailand

**Workshop Agenda**

**November 29<sup>th</sup> (Monday)**

<b>Time (Japan)</b>	<b>Program</b>
<b>Opening Session</b>	
MC: KAWABATA Ken, e-ASIA JRP Secretariat	
13:00 - 13:10	Opening Remarks HISANAGA Yukihiro Director, International Science and Technology Affairs Division, Ministry of Education, Culture, Sports, Science and Technology (MEXT), Japan
13:10 - 13:30	The Concept of this Workshop TAKEDA Haruo General Chair, e-ASIA Workshop on Greener Digital Cities Program Officer, JST(e-ASIA JRP) Corporate Chief Engineer, Hitachi, Ltd., Japan
13:30 - 13:45	Keynote Speech by the Government of Japan TANAKA Kenji Counsellor, Cabinet Secretariat (Infrastructure Export and Economic Cooperation), Japan

13:45 - 14:00	Keynote Speech by the Government of Philippines Enrico C. Paringit Executive Director, Philippine Council for Industry, Energy and Emerging Technology Research and Development, Philippines
14:00 - 14:15	Keynote Speech by the Government of Singapore Zhongwen HUANG Director, Design and Planning Lab, Urban Redevelopment Authority of Singapore, Singapore
14:15 – 14:30	Keynote Speech by the Government of Myanmar Daw Tin Tin Kyi Director, Urban Planning, Yangon City Development, Myanmar
14:30 - 14:45	Keynote Speech by the Government of Thailand Thanaruk Theeramunkong Fellow, the Royal Society of Thailand SIIT, Thammasat University and the president of the AI Association of Thailand, Thailand
14:45 - 15:30	Group Photo & Coffee/Tea Break

\*15min. for each presentation including Q&A

<b>Session 1: Analysis &amp; Modeling</b>	
Session Co-Chairs: Thanaruk Theeramunkong (Thailand) & Khin Mar Soe (Myanmar)	
15:30 - 15:45	SAKANO Narutoshi Managing Consultant, Fujitsu Research Institute, Japan “Driving PDCA cycle of smart cities in ASEAN with international standards”
15:45 - 16:00	Pittipol Kantavat Lecturer, Department of Computer Engineering, Faculty of Engineering, Chulalongkorn University, Thailand “QoL Evaluation Using Image Recognition Technique”
16:00 - 16:15	Fakhrul Zaman Rokhani Associate Professor, Universiti Putra Malaysia, Malaysia “The rise of digital technology in precision ageing: Case study on smart age-friendly cities”
16:15 - 16:30	Sandar Lwin Deputy Director, Electronic Technology Research Department, Department of Research and Innovation, Ministry of Science and Technology, Myanmar “Myanmar’s current environmental issues and how to improve with the advances of Smart Technology”

16:30 - 16:45	Varameth Vichiensan Associate Professor, Kasetsart University, Thailand “Street elements and walking needs in Asian cities”
16:45 - 17:00	Importante Gilbert Dean / Director, University of Southeastern Philippines (USEP) / Southern Mindanao Agriculture, Aquatic and Natural Resource Regional Consortium (SMAARRDEC), Philippines “Development of Rosanna banana disease surveillance system”
17:00 - 17:15	SAKAGUCHI Kazuhisa, CTO, Biomass Resin Holdings Co.,Ltd., Japan “Rice resin for an intelligent infrastructure of agriculture, renewable plastic, and (marine) waste reduction”
17:15 -	Group Photo

### **December 1<sup>th</sup> (Wednesday)**

\*15min. for each presentation including Q&A

<b>Session 2: Simulation &amp; Optimization</b>	
Session Chair: Poh Hee Joo (Singapore)	
13:00 - 13:15	Muhamad Azfar Ramli Deputy Department Director & Senior Scientist, Institute of High Performance Computing, A*STAR, Singapore “Data-driven Complexity Approach in Urban Mobility Modelling & Simulation”
13:15 - 13:30-	HANAOKA Seishi, General Manager, Digital Platform Technology Center, Hitachi, Ltd., Japan “Operating System for Greener Digital Cities”
13:30 - 13:45	I.D.A.A. Warmadewanthi Head of Research Centre for Infrastructure and Sustainable Environment, Institut Teknologi Sepuluh Nopember Surabaya, Indonesia “IT Solution for Enhancing the Solid Waste Recycling and Monitoring in Metropolitan City to Support Smart Green City”
13:45 - 14:00	Narit Hnoohom, Assistant Professor, Department of Computer Engineering, Faculty of Engineering, Mahidol University, Thailand “Assessment system for solar energy production”

14:00 - 14:15	Betchie E. Aguinaldo Dean, College of Computing Studies Information and Communication Technology / Director, Business Intelligence Research & Development Center (BIRD-C), Isabela State University, Philippines "Optimization of Decision Support System for Effective e-Governance (ODESSEE) on Preemptive Evacuation for Flood Disaster amidst Covid-19 in Cagayan Valley"
14:15 - 14:30	Nurfadhlin Mohd Sharef Associate Professor, Universiti Putra Malaysia, Malaysia "Machine learning for predictive cognitive impairment based on integrative assessment instruments optimization towards dementia self-screening and preparation"
14:30 - 14:45	Chandra Sekhar Professor, National University of Singapore, Singapore "Smart, Sustainable and Resilient HEALTHY BUILDINGS"
14:45 - 15:00	Coffee/Tea Break

\*15min. for each presentation including Q&A

<b>Session 3: Implementation</b>	
Session Chair: INOI Hiroto (Japan)	
15:00 - 15:15	NAKAMURA Fumihiko Professor, Graduate School of Frontier Sciences, The University of Tokyo, Japan "Approaches towards Peak-Less Cities -Introduction of Mitsui Fudosan University of Tokyo Laboratory Activities-"
15:15 - 15:30	Tan Yen Kheng Research Engineer, Innovation Factory@SIMTech, A*STAR, Singapore "Electric vehicle charging infrastructure: today and tomorrow"
15:30 - 15:45	Soehartanto Totok Head of Instrumentation Engineering Department, Institut Teknologi Sepuluh Nopember, Indonesia "Integrated Urban Air Quality Monitoring System"

15:45 - 16:00	Jittiwut Suwatthikul Senior Researcher, Advanced Control and Electronics Research Group, National Electronic and Computer Technology Center, Thailand “Implementation of monitoring system for large public Infrastructure (Hydropower Dam)”
16:00 - 16:15	Thin Lai Lai Thein Professor, University of Computer Studies, Yangon, Myanmar “Flood Detection and Alert System for Proneness Flooding Regions”
16:15 - 16:30	Renerio S. Mucas Faculty Researcher, Iloilo Science and Technology University, Philippines “Management of unified control and automated system for smart hydroponics”
16:30 - 16:45	KINOSHITA Hikaru Professor, Faculty of Environmental and Urban Engineering, Department of Architecture, Kansai University, Japan “The Possibility of Hawker Center as the social infrastructure in Singapore”
16:45 - 17:00	Coffee/Tea Break

<b>Closing Session</b>	
MC: KAWABATA Ken, e-ASIA JRP Secretariat	
17:00 – 17:15	KAWABATA Ken, e-ASIA JRP Secretariat Information of e-ASIA 11 <sup>th</sup> Call on “Greener Digital Cities”
17:15 – 17:50	Comments from e-ASIA call participating funding agencies (by the alphabetical order of country) Phyu Phyu Win, MOST, Myanmar Enrico C. Paringit, DOST-PCIEERD, Philippines Poh Hee Joo, A*STAR, Singapore Thanaruk Theeramunkong, NRCT, Thailand KOBAYASHI Osamu, JST, Japan
17:50 -	Group Photo
<b>End of the Workshop</b>	