11/26 Workshop on AI Computing in Science and Technology

Time	Content
Theme: Welcome	
09:00~09:05	Welcome and Introduction of SEAIP2018
09:05~09:15	Who's who
Keynote: PRAGMA Institute	
Session Chair: *Fang-Pang Lin, NCHC, NARLabs, Taiwan*	
09:15-09:30	PRAGMA and Scientific Expedition
	Shava Smallen, Chair of PRAGMA SC, UCSD, USA
Theme: Network & Security	
09:30~09:45	Honeynet and Malware Knowledge Base
	Boyi Lee, NCHC, NARLabs, Taiwan
09:45~10:00	Towards Connected - HPC
	Hiroaki Morimoto, CMC, Osaka University, Japan
10:00~10:15	Implementation of a Transnational Testbed with Layer 3 SDX
	Te-Lung Liu, NCHC, NARLabs, Taiwan
10:15~10:30	News Tracking System on Cloud
	Yih-Jia Tsai, Tamkang University
10:30-10:50	Coffee Break
Theme: Resources Management	
10:50:11:05	Towards Intelligent Resource Management in Fog Clusters: An Reinforcement Learning Approach
	Aye Mon Tun, UCSY, Myanmar
11:05~11:20	A Resource Usage Prediction System Using Functional-link and Genetic Algorithm Neural Network for Multivariate Cloud Metrics
	Nguyen Van Thieu, HPCC, Hanoi University of Science and Technology, Vietnam
11:20~11:35	Integration of Fuzzy Computing and Knowledge Discovery in the Light of AI and Cloud Computing
	Le Hoang Son, Vietnam National University, Hanoi, Vietnam
Theme: Instrumentation & Services	
11:35~11:50	Unmanned Aerial Monitoring and Information Management of Aging Structures
	Noel B. Linsangan, Mapua University, Philippines

Time	Content
11:50~12:10	Research Applications on the Internet of Things (IoT)
	Meryl Regine Algodon, Advanced Science and Technology Institute, Philippines
12:10~13:30	Lunch & Posters
13:30~13:45	Intelligent Quality Inspection and Monitoring
	Lai Weng Kin, Tunku Abdul Rahman University College, Malaysia
13:45~14:00	Digital Assistants: The Challenges
	Duc Nghia Pham, MIMOS Berhad, Malaysia
	Theme: Agriculture
14:00~14:15	Disaster and Agricultural Remote Sensing Applications Using High Performance Computing
	Roel M. De La Cruz & Nash Frederic Prado, Advanced Science and Technology Institute, Philippines
14:15~14:30	Komiot: Exploring Rest Protocol for IOT Server of The Automatic Irrigation Control System
	Sri Wahjuni, Bogor Agricultural University, Indonesia
	Theme: Smart Cities
14:30~14:45	SDN, IoT and Fog Computing Testbed for Smart Cities
	Đinh Văn Dũng, Information Technology Institute (ITI) Vietnam National University Hanoi , Vietnam
14:45~15:00	Warning Alert System for Reducing Road Traffic Accidents Using IoT
	Tin Lae Lae Mon, University of Computer Studies Yangon, Myanmar
15:00~15:30	Coffee Break
15:30~15:45	Scene Understanding for Power Generation Inspection Vehicle
	Teesid Leelasawassuk, National Electronics and Computer Technology Center, Thailand
15:45~16:00	Reinforcement Learning for Determining The Best Route Based on Weather Condition Taken by Wireless Sensor Network
	Nurmaya, YARSI University, Indonesia
	Theme: Natural Disasters
16:00~16:15	Land Feature Pseudo-Segmentation and Object Class Estimation Using Deep Learning on Satellite-based RGB Images
	Jeffrey A. Aborot, Department of Science and Technology - Advanced Science and Technology Institute, Philippines

Time	Content
16:15~16:30	Monitoring Landslide Prone Area using Internet of Things
	Chaw Chaw Khaing, UCSY, Maymmar
16:30~17:30	Poster Session
18:00~	Discussions & Dinner

11/27 AI Innovation in Cloud Computing and IOT

Time	Content
	Theme: Welcome
09:00~09:20	SEAIP Opening
	Kao-Cheng Wang, Vice President of Tamkang University
	Ce-Kuen Shieh, Director General of Delegate of NARL
	Theme: Keynote Speech on AI Innovation
	Session Chair : *Hui-Hung Hsu, Dean College of Engineering, Tamkang University*
09:20~09:40	Collaboration: A Critical Strategy to Bridge AI Innovations Applied to Cloud Computing and IoT with Scientific and Societal Challenges
	Peter Arzberger, UCSD, USA
09:40~10:00	Opportunities for Young Scientists in the Age of Autonomous Systems and AI
	Williams, Y, Chang, University of Hawaii at Manoa, USA
10:00~10:20	Coffee Break
	Theme: Keynote Speech on Advance Science and Technology
	Session Chair : *Shava Smallen, UCSD, USA*
10:20~10:50	Virtual and Augmented Reality for Scientific Visualization
	Uwe Woessner, HLRS, Germany
10:50-11:20	Self-aware Machine Intelligence and International Collaboration in Biodiversity Data Research
	Jose Fortes, University of Florida, USA
11:20~11:40	AI Bridging Cloud Infrastructure (ABCI)
	Yoshio Tanaka, AIST, Japan
11:40~12:00	Distributed AI and Edge-oriented IoT Infrastructures for Smart Cities
	Hock-Beng Lim, Singapore University of Technology and Design, Singapore
12:00~13:30	Lunch & Poster Session
	Theme: AI applications in Biomedical Development
	Session Chair : *Heru Suhartanto, Universitas Indonesia, Indonesia*
13:30-13:55	Improving the Performance of Colon Histopathology Images Training Based on Convolutional Neural Network on GPU Environment
	Heru Suhartanto, Universitas Indonesia, Indonesia
13:55~14:20	Telemedicine
	Raul Gilberto Hazas Izquierdo, Universidad de Sonora, Mexico
14:20~14:40	FORMOSAT-5 Application Current and Future

Time	Content
	Bo Chen, NSPO, NARLabs, Taiwan
14:40~15:00	On The Robustness of Cry Detection Methods In Real Neonatal Intensive Care Units
	Huy Hoang Vuong, Institute of Information Technology Vietnam Academy of Science and Technology, Vietnam
15:00~15:30	Coffee break

Theme: AI Applications in Smart Cities

Session Chair : *Fang-Pang Lin, NCHC, Taiwan*

Time	Content
15:30~15:55	Urban Ecology
	Hen-Biau King, The Jane Goodall Institute Taiwan
15:55~16:20	Towards a Periodontal Screening Using a Smart Phone Camera
	Yusuke Moriyama, CMC, Osaka University, Japan
16:20~16:40	A Hyper-heuristic based Artificial Bee Colony Algorithm for the Multi-modal Transportation Problem
	Li Pei Wong, School of Computer Sciences University Sains Malaysia, Malaysia
16:40~17:00	Innovative Solution for Smart Building
	Yen-Jong Chen, NCKU, Taiwan
18:00~20:00	Banquet
	Fullon Hotel Tamsui Fisherman's Wharf @ 3F

11/28 Joint Workshop on AI in Art, Culture and Society (ACS)

Time	Content
	Theme: Joint Workshop on Art, Culture and Society
09:30~09:40	Opening on Joint Workshop *Mr. Hsiaote, Hsu, Chief Curator, NPM* *Ce-Kuen Shieh, Director of NCHC, NARLabs*
	Theme: AI & Smart and Connected Communities
09:40~10:00	Keynote from National Palace Museum *Chun-Ko Hsieh, Deputy Chief, Education Exhibition Department, NPM*
10:00~10:20	Coffee Break
	Theme: Smart and Connected Communities
10:20~10:50	Cultural Heritage and Arts in VR *Uwe Woessner, HLRS, Germany*
10:50~11:05	Cultural Heritage in Bagan *Thida Aung, UCSY, Myanmar*
11:05~11:20	Deep Learning on Point Clouds *Cherdsak Kingkan, NECTEC, Thailand*
11:20~12:00	Reverse-engineering an ML-based Information Delivery System *S. Felix Wu, UC Davis, USA*
12:00~13:30	Lunch
	Theme: AI and Beyond
13:30~14:30	Coordinated Mining of 3D Physical World from Big Visual Data *Jenq-Neng Hwang, University of Washington, USA*
14:30~17:45	Cultural Tour in National Palace Museum

11/29   AI in Education and Applications

Time	Content
	Theme: Cultivating Young Talents Through Community Collaboration
09:00~10:20	Panel in AI Education & Programs for Junior High, Undergraduate and Post Graduate Students *PRAGMA, AIST, NMMBA, NMMST*
10:20~10:40	Coffee Break & Posters
	Theme: AI Applications in Intelligent Manufacturing
10:40~11:00	Smart and Connected Communities *Rui Oliveira, INESC TEC, Portugal*
11:00~11:20	Scalable Research Platform for Global Research Collaboration *Jim Chen, iCAIR, University of North Western, USA*
11:20~11:40	Secure Staging Mechanism towards AI-related Research Treating Security-sensitive Scientific Data *Susumu Date, CMC, Osaka University, Japan*
11:40~12:00	A Weaving CAD Software with AI *V.K. Bhatia & Satya Vir Singh, India Media Lab, India*
12:00~14:00	Lunch/Posters
	Theme: Marine Science and Technology
14:00~14:20	Lifemapper in Southeast Asia: Past, Present, and Future Collaborations in Biodiversity Research *Aimee Stewart, University of Kansas Biodiversity Institute, USA*
14:20~14:40	Lifemapper Installs for NMMST and PRAGMA, PRP *Nadya Williams, UCSD, USA*
14:40~15:00	Applying Artificial Intelligence and 3D Technology in Coral Reef Monitoring and Mass Coral Culture *Tung-Yung Tony Fan, NMMST, Taiwan*
15:00~15:15	Sea-surface temperature spatiotemporal analysis for the Gulf of California, 1998-2015: regime change simulation *Maria Del Carmen Heras Sanchez, Universidad de Sonora, Maxico*
15:15~15:30	Coffee Break & Preparation for Breakout Groups
15:30~15:40	TCA Introduction on Smart Cities Summit & Expo 2019
15:30~17:30	The World Cafe and Mini-Workshops *Groups to kick off* *1. Modeling & Visualization for Museum in Marine Science (e.g. Coral Reef Ecosystem)* *2. Starlight Connectivity Opportunity for SEAIP Members* *3. Smart Cities Platform and Applications*

Time	Content
18:00~	Discussions & Dinner

11/30 International Collaborative on AI

Time	Content
Theme: Welcome	
09:00~10:00	Collaborative Discussions in AI – Review of SEAIP2017/2018 *Ideas, Prototyping & Proposals*
10:00~10:30	Coffee Break & Posters
10:30~11:00	Collaborative Discussions in AI – Review of SEAIP2017/2018 *Ideas, Prototyping & Proposals*
11:00~	Cultural Tour at Tamsui