SEAIP2019

Future Computing on Bits & Neurons – HPC and AI

12/4 Day 1@NCHC   (Update: 2019/11/29)

Time/Venue	Event
13:30-15:00	PRAGMA Scientific Expedition Extension & CENTRA Projects: Update & New Collaboration **PRAGMA –** 　**"TAIWAN II vs ABCI & Applications"** – Weicheng Huang, NCHC 　**"Biodiversity-Algae at Taiwan Coastline & Lifemapper collaboration"** – Hsiu-Mei Chou, NCHC **"Coral Reef Preservation"** Tony Fan, NMMBA **CENTRA:** 　**"AIoT for Urban Science"** – Chung-I Huang, NCHC. **"SDN-IP testbed for Data Movement" –** Te-lung Liu, NCHC.
15:00-15:30	Coffee Break
15:30-17:00	Preparation or update the joint proposals for collaboration (Ad Hoc discussions around groups.) 1.　Define Problems/Issues 　　e.g. Aquabox for GLEON. 2.　Define Resources. 　　e.g. funding source, manpower, during, milestones, MOUs.
18:00-20:00	Reception dinner

12/5 (Thursday) Day 2@ EC329, NCTU

Time/Venue	Event
9:00-9:15 EC122	**Opening** Sin-Horng Chen, President NCTU

	Shepherd Shi, Director General, NCHC
	Shava Smallen, Interim Co-Chair, PRAGMA and UCSD
	Jose Fortes, CENTRA Steering Committee Chair and University of Florida
9:15-9:40	**"Transforming Science in the 21st Century: NSF and its Computational Blueprint and National Artificial Intelligence (AI) Research Institutes."** William Y. Chang, Advisor Office of VP for Research and Innovation, University of Hawaii System
9:40-9:55	**"AgriTalk",** Yun-Wei Lin, Prof. NCTU.
9:55-10:10	**"TWCC: Cloud Platform to HPC and AI",** Shepherd Shi, Director General, NCHC.
10:10-10:25	**"Pervasive AI Services",** Po-Chi Hu, CEO PAIR Labs.
10:25-10:40	**"Introduction of free5GC",** Jyh-Cheng Chen, Prof. NCTU
10:40-10:50	**Group Photo**
10:50-11:00	Coffee Break
11:00-11:15	**"PRAGMA- Towards Smart & Connected Community"** Shava Smallen, Interim Co-Chair, PRAGMA and UCSD
11:15-11:30	**"CENTRA – Transnational Collaboration to Drive Innovation"** José Fortes, CENTRA Steering Committee Chair and University of Florida
11:30-11:45	**"SEAIP Data Movers, Global Research Platform and Scalable Data Movement for Scalable AI"** Jim Chen, Associate Director, iCAIR/Northwestern University& Steven Shiau, NCHC
11:45-12:25	**"Virtual Twins in Urban planning and public participation"** Uwe Woessner, Head of Visualization dep., HLRS University of Stuttgart
12:25-13:30 EC329	Lunch
13:30-15:00	Topics of interested & proposals from the invited Institutes **1. "MACC - the Portuguese EuroHPC petascale machine&**

	Challenges on the convergence of HPC and Data analytics" Rui Oliveira, Member of the Board of Directors, INESC TEC and University of Minho
	2. 〝**Immersive Visualization and Analytics to Derive Insight from Data**〞 Jason Haga, Senior Researcher, National Institute of Advanced Industrial Science and Technology (AIST), Japan
	3. "Industry 4.0: MIMOS Perspective", Ong Hong Hoe, Luke Jing Yuan, MIMOS, Malaysia
	4. "Distributed and Edge-oriented AIoT Infrastructures for Smart Cities", Hock-Beng Lim, Singapore University of Technology and Design (SUTD), Singapore.
	5. "ThaiSC and Thailand's 1st large scale HPC service", Chompoonut Rungnim, NSTDA Supercomputer Center/NSTDA, Thailand
	6. "Integrated Application and Infrastructure Performance Monitoring at the IoT Edge", Prapaporn Rattanatamrong, Thammasat University, Thailand
	7. "Biomed & Healthcare analytics", Heru Suhartanto, National University of Indonesia, Indonesia
	8. 〝**Smart Agriculture through Drones &AI"**,Hui-Ping Tsai, NCHU.
15:15-15:30	Coffee Break
15:30-17:00 EC329/ EC340/ EC500A/ EC500B	Working Group Discussions responding to the challenges from the proposals. Topics of Interest for Collaboration 1. Use Scenarios (or Problems to be solved) 2. Research Infrastructure • Platform for AI from International Perspective • Edge System • Network DMZ & 5G 3. Data Production, Management & Sharing. 4. Data collection Enabler: Sensors, Drones, Robots…etc.
18:00-20:00	Meeting Dinner

12/6 (Friday) Day 3@ 101 102 104, NCHC

9:00-10:30 102	"AI &HPC Challenges" Panel Discussions
10:30-11:30	Coffee break

11:30-12:30 101/ 102/ 104/	Working Group Discussions Topics of Interest for Collaboration
	1. Use Scenarios (or Problems to be solved)
	2. Research Infrastructure
	   Platform for AI from International Perspective
	   Edge System
	   Network DMZ & 5G
	1. AIoT Specific
	2. Applications

12:30-13:30	Lunch
13:30-15:00 102	Working Group Reporting Back & Feedback Discussions
15:00-15:20	Coffee break
15:20-16:00 101/ 102/ 104/	Finalize the project proposal (in ppt)
16:00-16:30	**"Introduction of AI development in University Toronto",** Christopher Yip,Dean,University of Toronto's Faculty of Applied Science & Engineering
16:30-17:30 102	Flash Presentation from Final Proposal.
18:00-20:00	Dinner

12/7 (Saturday) Day 4@NCHC

9:00-12:00	Cultural Tour at MaoKong, Taipai

12:00-14:00	Lunch
14:00-16:00	Future Tech, FUTEX 2019