The 3rd Collaboration Community Meeting 2020
Data-Centric IoT-Cloud Service Platform for Smart Communities (IoTcloudServe@TEIN)
Event Schedule

Date: Tuesday 8th September 2020

Time: 8:30 - 16:00 HR. [Social Dinner: 16:00 - 19:00 HR. (Thailand, Laos)]

Venues: Real-time video conference joining 5 countries
- Faculty of Engineering at Chulalongkorn University (CU), Thailand
- Gwangju Institue of Science and Technology (GIST), South Korea
- Faculty of Engineering at National University of Laos (NUOL), Laos
- The University of Tokyo, Japan
- University of Malaya, Malaysia

Registration:
https://forms.gle/LhFJHnbHQrRgXMth6

Date	Time	Activities
September 8th , 2020	08:30 - 09.00	Local registration at 3 venues (Thailand, Laos, Korea)

	09:00 - 09:50	**Welcome speech:**
		
		- Prof. Dr. Supot Teachavorasinskun
		  Dean, Faculty of Engineering at Chulalongkorn University, Thailand
		
		- Assoc. Prof. Dr. Khamphoui Southisombath
		  Dean, Faculty of Engineering, National University of Laos (NUOL), Laos

		Overall Project Report:
		
		- Assoc. Prof. Dr Chaodit Aswakul
		  Co-Principal Investigator and Financial Correspondent of IoTcloudServe@TEIN Project
		  Wireless Network and Future Internet Research Unit
		  Department of Electrical Engineering, Faculty of Engineering
		  Chulalongkorn University, Thailand

		Opening Speech:
		
		- Dr Chalermpol Charnsripinyo
		  Head of Internet Innovation Research Team
		  National Electronics and Computer Technology Center (NECTEC)
		
		  President, ThaiREN (Thailand Research Education Network Association), Thailand
		  Steering Committee, TEIN (Trans-Eurasia Information Network) 4
		
		- ....(To be confirmed)........
		  Asi@Connect Project Director, South Korea
		  Trans-Eurasia Information Network-star Cooperation Center (TEIN*cc)

Date	Time	Activities

September 8th , 2020	9:00 - 9:50	**Collaborating Partnership Speech:**
		
		- **Prof. Dr JongWon Kim**
		  Co-Principal Investigator of IoTcloudServe@TEIN Project
		  Dean of Gwangju Insititue of Science and Technology (GIST) AI Graduate School, South Korea
		
		- **Assoc. Prof. Dr Panjai Tantatsanawong**
		  Former President, ThaiREN (Thailand Research Education Network Association)
		  Dean of the Graduate School, Silpakorn University, Bangkok, Thailand
		
		- **Dr Panita Pongpaibul**
		  Associate Director, National Electronics and Computer Technology Center (NECTEC), Thailand
		
		- **Prof. Dr Khamphao Sisaat**
		  Department of Computer Engineering, Faculty of Engineering
		  National University of Laos, Laos
		
		- **Assoc. Prof. Dr Teck Chaw Ling**
		  Department of Computer Engineering, Faculty of Engineering
		  University of Malaya, Malaysia
		
		- **Assoc. Prof. Hideya Ochiai**
		  Graduate School of Information Science and Technology
		  The University of Tokyo, Japan
		
		- **Assoc. Prof. Dr Naebboon Hooncharoen**
		  Head of Department of Electrical Engineering
		  Faculty of Engineering, Chulalongkorn University, Thailand

	10:00	**Group Photo**

	10.00 - 10.30	**Keynote: Cloud-native & Data-centric AI+X Infrastructure and Platform**
		- **Prof. Jongwon Kim**
		  Co-Principal Investigator of IoTcloudServe@TEIN Project
		  Dean of Gwangju Insititue of Science and Technology (GIST) AI Graduate School, South Korea

	10:30 -11:20	**Toward Large-Scale Microservice Orchestration with Kubernetes Technology in IoTcloudServe@TEIN Testbed Infrastructure (30 minutes)**
		- **Assoc. Prof. Dr Krerk Piromsopa**
		  Chulalongkorn University Big Data Analytics and IoT Center (CUBIC)
		  Department of Computer Engineering, Faculty of Engineering
		  Chulalongkorn University, Thailand
		
		Demonstration of Integrating Tools for Logging, Monitoring and Visibility System for IoTcloudServe@TEIN (10 minutes)
		- **Mr Teerit Ploensin**
		  Department of Computer Engineering, Faculty of Engineering
		  Chulalongkorn University, Thailand
		
		Demonstration of Rancher Resource Control Policy in IoTcloudServe@TEIN (10 minutes)
		- **Mr Natt Visawarungroj**
		  Wireless Network and Future Internet Research Unit
		  Department of Electrical Engineering, Faculty of Engineering
		  Chulalongkorn University, Thailand

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September 8th , 2020	11:20 - 12:00	**An Experimental Study of Kubernetes Cluster Peer-to-Peer Application Level Federation via Istio Service Mesh (10 minutes)** **- Mr Pattarasak Namsri** Coordinator of IoTcloudServe@TEIN Project Wireless Network and Future Internet Research Unit Department of Electrical Engineering, Faculty of Engineering Chulalongkorn University, Thailand **Maintaining SmartX Multi-View Operations for OF@TEIN+ Distributed Cloud-native Edge Boxes (30 minutes)** **- Mr Muhammad Ahmad Rathore** Gwangju Insititue of Science and Technology (GIST), South Korea
	12:00 - 13:00	**Lunch**
	13:00 - 13: 50	**Update on the new NETPIE IoT cloud and edge** **- Dr.Aimaschana Niruntasukrat & Mr.Natapon Tansangworn** Researcher, National Electronics and Computer Technology Center (NECTEC), Thailand **The implementation of smart environment monitoring and controllable system for strawberry and melon farm under control of IoTcloudServe@TEIN testbed** **- Dr Senglathsamy CHANTHAMENAVONG & Dr Khampheth BOUNNADY** Department of Computer Engineering, Faculty of Engineering National University of Laos, Laos
	13:50 - 14:40	**Smart-Mobility@Chula: Towards Data-Centric Approach in Traffic Flow Management Enhancement of Rama-4 Road Network (30 minutes)** **- Assoc. Prof Dr Chaodit Aswakul** Head of Socio-Engineering Team, Rama-4 Model Project Wireless Network and Future Internet Research Unit Department of Electrical Engineering, Faculty of Engineering Chulalongkorn University, Thailand **Prototyping Small-Scaled Resilient Software-Defined Wireless Mesh Network with Dual-Band Data and Out-of-Band Control Planes (10 minutes)** **- Miss Phoo Phoo Thet Lyar Tun** Wireless Network and Future Internet Research Unit Department of Electrical Engineering, Faculty of Engineering Chulalongkorn University, Thailand **Simulated Demonstration of WiFi-Based Road Traffic Monitoring Application Using Softwar Defined Wireless Mesh Network (10 minutes)** **- Mr Meechai Homchan** Wireless Network and Future Internet Research Unit Department of Electrical Engineering, Faculty of Engineering Chulalongkorn University, Thailand
	14:40 - 15:10	**Smart Energy in Chulalongkorn University's Smart Campus** **- Assoc. Prof. Dr Manisa Pipattanasomporn** Smart Grid Research Unit (SGRU) Department of Electrical Engineering Faculty of Engineering, Chulalongkorn University, Thailand Adjunct Faculty, Department of Electrical and Computer Engineering Virginia Tech – Advanced Research Institute, USA

Date	Time	Activities
September 8th , 2020	15:10-15:30	**Cloud-Based Smart Energy Framework for Accelerated Data Analytics with Parallel Computing of Orchestrated Containers: Study Case of CU-BEMS** **- Mr Kittipat Saengkaenpetch** Engineer (Level-6) Database Administration Section Electricity Generating Authority of Thailand (EGAT), Thailand Wireless Network and Future Internet Research Unit Department of Electrical Engineering, Faculty of Engineering Chulalongkorn University **- Mr Siravit Kwankajornkeat** Wireless Network and Future Internet Research Unit Department of Electrical Engineering, Faculty of Engineering Chulalongkorn University
	15:30 - 16:00	**Possible Future Collaboration in Open Federated Playgrounds for AI-Inspired SmartX Services (OF@TEIN++) Project Under Asi@Connect in Extension from Acheivement of IoTcloudServe@TEIN and OF@TEIN+**
	16:00 - 19:00	**Social Dinner**

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https://www.facebook.com/iotcloudserve/

https://github.com/IoTcloudServe