



**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 INSTITUTE 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](https://forms.gle/LHFJHNBHQRRGXMTH6)**



DATE	TIME	ACTIVITIES
September 8th , 2020	08:30 - 09.00	<b>Local registration at 3 venues (Thailand, Laos, Korea)</b>
	09:00 - 09:50	<b>Welcome speech:</b> <ul style="list-style-type: none"><li>- <b>Prof. Dr. Supot Teachavorasinskun</b> Dean, Faculty of Engineering at Chulalongkorn University, Thailand</li><li>- <b>Assoc. Prof. Dr. Khamphoui Southisombath</b> Dean, Faculty of Engineering, National University of Laos (NUOL), Laos</li></ul>
		<b>Overall Project Report:</b> <ul style="list-style-type: none"><li>- <b>Assoc. Prof. Dr Chaodit Aswakul</b> 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</li></ul>
		<b>Opening Speech:</b> <ul style="list-style-type: none"><li>- <b>Dr Chalernpol Charnsripinyo</b> Head of Internet Innovation Research Team National Electronics and Computer Technology Center (NECTEC)  President, ThaiREN (Thailand Research Education Network Association), Thailand Member of Asi@Connect Governors Member of Board of Directors, Asia Pacific Advanced Network (APAN)</li><li>- <b>Mr Sanggyun Kim</b> Head of Project Management Team Trans-Eurasia Information Network-star Cooperation Center (TEIN*cc)</li></ul>

DATE	TIME	ACTIVITIES
September 8th , 2020	9:00 - 9:50	<p><b>Collaborating Partnership Speech:</b></p> <ul style="list-style-type: none"> <li>- <b>Prof. Dr JongWon Kim</b> Co-Principal Investigator of IoTcloudServe@TEIN Project Dean of Gwangju Insititue of Science and Technology (GIST) AI Graduate School, South Korea</li> <li>- <b>Assoc. Prof. Dr Panjai Tantatsanawong</b> Former President, ThaiREN (Thailand Research Education Network Association) Department of Computing, Faculty of Science, Silpakorn University, Bangkok, Thailand</li> <li>- <b>Dr Panita Pongpaibul</b> Deputy Executive Director, National Electronics and Computer Technology Center (NECTEC), Thailand</li> <li>- <b>Prof. Dr Khamphao Sisaat</b> Department of Computer Engineering, Faculty of Engineering National University of Laos, Laos</li> <li>- <b>Assoc. Prof. Dr Teck Chaw Ling</b> Department of Computer Engineering, Faculty of Engineering University of Malaya, Malaysia</li> <li>- <b>Assoc. Prof. Hideya Ochiai</b> Graduate School of Information Science and Technology The University of Tokyo, Japan</li> <li>- <b>Assoc. Prof. Dr Naebboon Hooncharoen</b> Head of Department of Electrical Engineering Faculty of Engineering, Chulalongkorn University, Thailand</li> </ul>
	10:00	<b>Group Photo</b>
	10.00 - 10.30	<p><b>Keynote: Cloud-native &amp; Data-centric AI+X Infrastructure and Platform</b></p> <ul style="list-style-type: none"> <li>- <b>Prof. JongWon Kim</b> Co-Principal Investigator of IoTcloudServe@TEIN Project Dean of Gwangju Insititue of Science and Technology (GIST) AI Graduate School, South Korea</li> </ul>
	10:30 -11:20	<p><b>Toward Large-Scale Microservice Orchestration with Kubernetes Technology in IoTcloudServe@TEIN Testbed Infrastructure (30 minutes)</b></p> <ul style="list-style-type: none"> <li>- <b>Assoc. Prof. Dr Kerk Piomsopa</b> Chulalongkorn University Big Data Analytics and IoT Center (CUBIC) Department of Computer Engineering, Faculty of Engineering Chulalongkorn University, Thailand</li> </ul> <p><b>Demonstration of Integrating Tools for Logging, Monitoring and Visibility System for IoTcloudServe@TEIN (10 minutes)</b></p> <ul style="list-style-type: none"> <li>- <b>Mr Teerit Ploensin</b> Department of Computer Engineering, Faculty of Engineering Chulalongkorn University, Thailand</li> </ul> <p><b>Demonstration of Rancher Resource Control Policy in IoTcloudServe@TEIN (10 minutes)</b></p> <ul style="list-style-type: none"> <li>- <b>Mr Natt Visawarungroj</b> Wireless Network and Future Internet Research Unit Department of Electrical Engineering, Faculty of Engineering Chulalongkorn University, Thailand</li> </ul>

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

DATE	TIME	ACTIVITIES
September 8th , 2020	15:10-15:30	<b>Cloud-Based Smart Energy Framework for Accelerated Data Analytics with Parallel Computing of Orchestrated Containers: Study Case of CU-BEMS</b>  <b>- Mr Kittipat Saengkaenpetch</b> 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  <b>- Mr Siravit Kwankajornkeat</b> Wireless Network and Future Internet Research Unit Department of Electrical Engineering, Faculty of Engineering Chulalongkorn University
	15:30 - 16:00	<b>Possible Future Collaboration in Open Federated Playgrounds for AI-Inspired SmartX Services (OF@TEIN++) Project Under Asi@Connect in Extension from Achievement of IoTcloudServe@TEIN and OF@TEIN+</b>
	16:00 - 19:00	<b>Social Dinner</b>



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