



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/LHFJHNBHQRGXMth6](https://forms.gle/LHFJHNBHQRGXMth6)



| DATE | TIME | ACTIVITIES |
|----------------------|---------------|--|
| September 8th , 2020 | 08:30 - 09:00 | Local registration at 3 venues (Thailand, Laos, Korea) |
| | 09:00 - 09:50 | Welcome speech: <ul style="list-style-type: none">- 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: <ul style="list-style-type: none">- 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: <ul style="list-style-type: none">- Dr Chalernpol Charnsripinyo 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)-(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 | <p>Collaborating Partnership Speech:</p> <ul style="list-style-type: none"> - Prof. Dr JongWon Kim Co-Principal Investigator of IoTcloudServe@TEIN Project Dean of Gwangju Insitue of Science and Technology (GIST) AI Graduate School, South Korea - Assoc. Prof. Dr Panjai Tantatsanawong Former President, ThaiREN (Thailand Research Education Network Association) Department of Computing, Faculty of Science, Silpakorn University, Bangkok, Thailand - Dr Panita Pongpaibul Deputy Executive 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 | <p>Keynote: Cloud-native & Data-centric AI+X Infrastructure and Platform</p> <ul style="list-style-type: none"> - Prof. Jongwon Kim Co-Principal Investigator of IoTcloudServe@TEIN Project Dean of Gwangju Insitue of Science and Technology (GIST) AI Graduate School, South Korea |
| | 10:30 - 11:20 | <p>Toward Large-Scale Microservice Orchestration with Kubernetes Technology in IoTcloudServe@TEIN Testbed Infrastructure (30 minutes)</p> <ul style="list-style-type: none"> - Assoc. Prof. Dr Krerk Piromsopa Chulalongkorn University Big Data Analytics and IoT Center (CUBIC) Department of Computer Engineering, Faculty of Engineering Chulalongkorn University, Thailand <p>Demonstration of Integrating Tools for Logging, Monitoring and Visibility System for IoTcloudServe@TEIN (10 minutes)</p> <ul style="list-style-type: none"> - Mr Teerit Ploensin Department of Computer Engineering, Faculty of Engineering Chulalongkorn University, Thailand <p>Demonstration of Rancher Resource Control Policy in IoTcloudServe@TEIN (10 minutes)</p> <ul style="list-style-type: none"> - Mr Natt Visawarungroj Wireless Network and Future Internet Research Unit Department of Electrical Engineering, Faculty of Engineering Chulalongkorn University, Thailand |

| DATE | TIME | ACTIVITIES |
|-------------------------|----------------|--|
| September 8th , 2020 | 11:20 - 12:00 | <p>An Experimental Study of Kubernetes Cluster Peer-to-Peer Application Level Federation via Istio Service Mesh (10 minutes)</p> <p>- 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</p> <p>Maintaining SmartX Multi-View Operations for OF@TEIN+ Distributed Cloud-native Edge Boxes (30 minutes)</p> <p>- Mr Muhammad Ahmad Rathore Gwangju Insititue of Science and Technology (GIST), South Korea</p> |
| | 12:00 - 13:00 | Lunch |
| | 13:00 - 13: 50 | <p>Update on the new NETPIE IoT cloud and edge</p> <p>- Dr.Aimaschana Niruntasukrat & Mr.Natapon Tansangworn Researcher, National Electronics and Computer Technology Center (NECTEC), Thailand</p> <p>The implementation of smart environment monitoring and controllable system for strawberry and melon farm under control of IoTcloudServe@TEIN testbed</p> <p>- Dr Senglathsamy CHANTHAMENAVONG & Dr Khampheth BOUNNADY Department of Computer Engineering, Faculty of Engineering National University of Laos, Laos</p> |
| | 13:50 - 14:40 | <p>Smart-Mobility@Chula: Towards Data-Centric Approach in Traffic Flow Management Enhancement of Rama-4 Road Network (30 minutes)</p> <p>- 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</p> <p>Prototyping Small-Scaled Resilient Software-Defined Wireless Mesh Network with Dual-Band Data and Out-of-Band Control Planes (10 minutes)</p> <p>- Miss Phoo Phoo Thet Lyar Tun Wireless Network and Future Internet Research Unit Department of Electrical Engineering, Faculty of Engineering Chulalongkorn University, Thailand</p> <p>Simulated Demonstration of WiFi-Based Road Traffic Monitoring Application Using Softwar Defined Wireless Mesh Network (10 minutes)</p> <p>- Mr Meechai Homchan Wireless Network and Future Internet Research Unit Department of Electrical Engineering, Faculty of Engineering Chulalongkorn University, Thailand</p> |
| | 14:40 - 15:10 | <p>Smart Energy in Chulalongkorn University's Smart Campus</p> <p>- Assoc. Prof. Dr Manisa Pipattanasomporn 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 | 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 Achievement of IoTcloudServe@TEIN and OF@TEIN+ |
| | 16:00 - 19:00 | Social Dinner |



More About US



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



<https://github.com/IoTcloudServe>

