The 2nd IoT Workshop Program

Date: 8 November 2026

Venue: ATI room (靄雲廳), 1F, Department of Electrical Engineering,
National Cheng Kung University (NCKU), Tainan

Moderator: **Maximilien Berthet**, the University of Tokyo

13:30	13:35	Opening	**Shinichi Nakasuka**, Ritsumeikan University
13:35	13:50	Satellite System of ArkEdge Space	**Takayoshi Fukuyo**, ArkEdge Space
13:50	14:30	IoT Communication Experiment Report	**José Fernando Jiménez Vargas**, COCSA, Colombia (NPO) **Yonghoon Chung**, Yonsei University, South Korea
14:30	15:30	Brief Lecture on System Design for IoT Satellites	**Shinichi Nakasuka**, Ritsumeikan University
15:30	16:30	Quantitative IoT Mission Design	Group analysis and preparation for team presentations
16:30	17:45	Team Presentations	
17:45	18:00	Closing Remarks	**Shinichi Nakasuka**, Ritsumeikan University

IoT Mission Design Work (15:30–16:30)

Based on Professor Nakasuka's lecture, participants will conduct a quantitative analysis of their proposed IoT missions and prepare to present them as realistic, technically feasible mission concepts with some quantitative analysis.

Each team will calculate and determine key mission parameters, including:

- the number and geographical distribution of ground sensors;
- the volume of data to be transmitted;
- the required observation or data-collection frequency;
- the number of satellites required;
- the maximum acceptable latency;
- the number of ground stations required; and
- other relevant system requirements.

Based on this analysis, each team will prepare a presentation outlining its mission concept and demonstrating its feasibility.

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