Abstract---

In this talk, we will briefly review the history of IoT (Internet of Things) and/or ubiquitous computing research. Then, we will introduce the overview of current status of our IoT applications and services; Low-Energy Smart House, Ubiquitous Emergency Medical Services, IoT Infrastructure Maintenance System, Tokyo Ubiquitous Technology Project, and National Standard Geo-code Infrastructure.

In IoT system, embedded systems and cloud systems are the key technologies. T-Kernel is the globally open standard realtime embedded kernel especially for IoT applications and services. In this talk, we will introduce the latest version of T-Kernel (μT-Kernel) and its IoT network framework on the basis of 6LoWPAN.

On the other hands, IoT systems upload big data automatically to cloud systems. Open data is very important paradigm in utilizing the big data. Lastly, we will suggest that we should start standardization activity of Open Data for the next step of IoT.