

Symposium Keynote Speaker

IoT Integration and Applications



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Abstract

III (Institute for Information Industry) has been devoted over the years to the research and development in the field of IoT (Internet of Things), ranging from sensors/actuators, communication network, data analytics, applications as well as services. In addition, several technologies and solutions have been received the R&D 100 Awards, like CraneAbide, In-Snergy, BestLink, and RFID-mf. Our goal is to assist Taiwan ICT companies to develop competitive IoT technologies and solutions, and to carry out IoT trials in Taiwan, followed by worldwide deployments. From various test beds and clients, the data we collect is being analyzed and being fed to the engines. So data can further become useful decisions or events. Different needs of services are discovered and designed to be used in different scenarios, such as smart transportation, communication network, and smart energy.

In smart energy area, over the past years we have developed competitive solutions from infrastructure such as AMI (Advanced Metering Infrastructure) to applications like InSnergy EMS (Energy Management System) and SAVE ADR (Automated Demand Response) platform. III has solid experiences and references on AMI, the foundation of Smart Grid system. Our AMI partners also successfully penetrate overseas market using our technology. In order to cope with peak load and energy shortage, Demand Response is an effective program for load management and reliability enhancement of power grid. III's SAVE ADR server is Asia's second certified product by OpenADR Alliance. Furthermore, our In-Snergy, a cloud-based energy management system can be used both at homes and enterprise settings. We are confident with our big data capability. Over 1.3 billion pieces of data in the platform and it continues to grow every day.

Bio

Dr. Ming-Whei Feng has more than 25 years of professional experience in the research and development of information systems, communications, signal processing, and smart energy system technologies. Throughout her career, she has collaborated with industrial, academic, and research organizations centering on applying state-of-the-art information and communication (ICT) technologies to provide high value added services or solutions. She has demonstrated various successful cross domain collaboration cases, where she teamed up non-ICT technology providers with ICT technology providers to develop and deploy high value added smart energy and smart building systems or solutions.

Dr. Feng received her B. S. degree from National Chiao-Tung University in 1984. She received her M.S.E.E. and Ph.D. degrees from Northeastern Universities in 1986 and 1989, individually. Since 1987, she worked at BBN Systems and Technologies from 1987 to 1989 in the area of speech recognition and speaker adaptation. Dr. Feng worked at Southeastern Bell Technology Resources Inc. and GTE Laboratories from 1989-1996 in the area of automated telecom services and video services. Dr. Feng joined U.S. Robotics (acquired by 3Com) from 1996-1997 in the area of high density modems and VOIP systems.

Since 1998, Dr. Feng joined Institute for Information Industry working in network and communications, embedded systems, information and communication policy planning, international technology collaboration. Dr. Feng is currently responsible for the Smart Network System Institute (SNSI). She is in charge of research and development of energy information and communication infrastructure and applications, smart energy management and service platform, energy information analytics, hybrid sensor network system, telematics infrastructure and application systems, and broadband network and application systems.