Message from the Organizers of the Workshop on Power Consumptions in Future Network Systems PCFNS

One of the important goals of communication systems is to provide us with a basic infrastructure to support our daily lives through a variety of network media, wired and wireless, and also computing devices. The recent movement of so-called ubiquitous computing/network or pervasive computing as well as information appliances is initiating a ‘Cambrian Explosion’ of network devices embedded in our environments. Through networks, we will be able to control anything in the world in addition to getting/providing information from/to the networks, assuming many embedded devices or sensors scattered around ourselves. On the other hand, it is widely known that establishing an energy-saving society will be the most important task for our century of technologies and requires a radical design challenge of technologies. The energy consumption of networks is rather small compared to other industries, but is reported to be increasing fast enough during the last decade to be notified. Considering a disaster recovery from earthquake, energy-saving networks will provide us sustainable services even in this kind of circumstances. In this sense, less energy consumption even means national safety.

The goal of this workshop is to bring together researchers involved in research on energy-saving technologies related to networks. It aims at exploring the most recent research results and ongoing work in areas such as photonic networks, wireless networks including sensor networks, home appliances, etc. The workshop will foster exchange of experiences and collaboration among researchers.

We hope that this workshop accompanied by the related panel will be a fruitful meeting with interactive in-depth discussion and active participation from all the attendees, and bring new clues to develop power reduction technologies for future network systems.

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