

專題演講

Speaker : 陳伶志 副研究員(中央研究院資訊科學研究所)

Talk Title : AirBox: a participatory ecosystem for PM2.5 monitoring

Abstract :

In this talk, we present a participatory urban sensing project for PM2.5 monitoring. The key feature of this project is its open architecture, which is based on the principles of open hardware, open source software, and open data. By working closely with government authorities, industry partners, and maker communities, we have constructed an effective ecosystem for participatory urban sensing of PM2.5 particles. Based on our deployment achievements to date, we provide a number of data services to improve environmental awareness, trigger on-demand responses, and assist future government policymaking. The project is highly scalable and sustainable with the potential to facilitate the Internet of Things, smart cities and citizen science in the future.

Autobiography :

Dr. Ling-Jyh Chen received the B.Ed. degree in information and computer education from National Taiwan Normal University in 1998, and the M.S. and Ph.D. degrees in computer science from University of California at Los Angeles in 2002 and 2005 respectively. He joined the Institute of Information Science of Academia Sinica as Assistant Research Fellow in 2005, and became an Associate Research Fellow in 2011. His research interests are networked sensing systems, mobile and wireless computing, and social computing. He is an honorary member of Phi Tau Phi Scholastic Honor Society, a Senior Member of IEEE, and a Life Member of ACM and IICM.