

Talk Title: Challenges of Query Processing in Mobile Ad Hoc Networks

Speaker: Takahiro Hara

Affiliation: Osaka University, Japan

Venue: Engineering Management 102

Time: March 4th Wednesday, 12:30 to 1:30pm

Abstract:

Recently, Mobile Ad hoc Networks (MANETs) have attracted much attention from various research communities due to challenges posed by the dynamic environment. For MANET applications in which mobile users share information, preventing the deterioration of data availability at the point of network partitioning is a very significant issue. Therefore, a large number of researches have been conducted on data management in MANETs.

In this talk, our recent work addressing query processing in MANETs is introduced. This talk mainly focuses on efficient data transfer using multicast and top-k query processing, and explains some research results obtained.

Bio:

Takahiro Hara received the B.E, M.E, and Dr.E. degrees in Information Systems Engineering from Osaka University, Osaka, Japan, in 1995, 1997, and 2000, respectively. Currently, he is an Associate Professor of the Department of Multimedia Engineering, Osaka University. He has published more than 100 international Journal and conference papers in the areas of databases, mobile computing, peer-to-peer systems, WWW, and wireless networking. He served and is serving as a Program Chair of IEEE International Conference on Mobile Data Management (MDM'06, MDM'10) and IEEE International Conference on Advanced Information Networking and Applications (AINA'09). He guest edited IEEE Journal on Selected Areas in Communications, Sp. Issues on Peer-to-Peer Communications and Applications. He was a PC Vice-chair of IEEE ICDE'05, IEEE ICPADS'05, CSA-09, NBIS'09, and IEEE AINA'06, 07, 08, and 10. He served and is serving as PC member of more than 100 international conferences/workshops such as IEEE ICNP, WWW, DASFAA, ACM MobiHoc, and ACM SAC. His research interests include distributed databases, peer-to-peer systems, mobile networks, and mobile computing systems.

He is IEEE Senior member and a member of four other learned societies including ACM.