Welcome Message from Organizing and Program Committees

The objective of this workshop is to provide a forum to exchange ideas, present results, share experience, and enhance collaborations among researchers, professionals, and application developers in various aspects of QoI and QoS in wireless sensor networks for pervasive computing.

Pervasive computing enables computers to interact with the real world in a ubiquitous and natural manner. Quality of service (QoS), related to transmission delay, bandwidth, or packet loss, has been studied in various building blocks in pervasive computing, e.g., different QoS mechanisms are presented for wireless or wired networks. Quality of Information (QoI) or Information Quality (IQ) of sensor-originated information relates to the fitness of the information for a sensor-enabled application. Harnessing and optimizing QoI of information derived from sensor networks is key to bringing together information acquisition and processing systems.

QoI touches every part of the end-to-end flow of sensor-derived information, from the sensors themselves and the observation data they produce to the various fusion layers that process these data and eventually to the applications (and their users) that use them. The effectiveness of actions taken by the applications using this information serves as the ultimate assessor of the quality and value-add provided by the entire sensor-enabled application. Novel mechanisms are required in pervasive computing which should integrate QoI, network QoS, computational QoS, security, and a user’s Quality of Experience (QoE), which will be influenced by the application goals and the pervasive environment in which the application is utilized. This year the program consists of the following four sessions: (i) opening with a keynote, (ii) foundations, (iii) trust and credibility, and (iv) closing. The nine papers presented in the program brings us a step closer to the described above goals of the workshop.

Technical Program Committee Co-chairs: Prithwish Basu and Boleslaw Szymanski