Welcome to the IEEE International Symposium on Ubisafe Computing (UbiSafe-07) and to Niagara Falls, Canada.

Computers are now available anytime, anywhere, by different means, and distributed unobtrusively throughout the everyday environments in which physical objects/artifacts embedded with invisible computers are sensible and networked locally and globally. Such “any” computers open tremendous opportunities to provide numerous novel services/applications in both real world and cyber spaces, and exist ubiquitously in our daily life, working, learning, traveling, entertainment, medicine, etc. Although it is yet unclear what exactly the real-cyber integrated worlds would be, there is no doubt that they must be safe.

UbiSafe (“You Be Safe”) emphasizes the SAFE aspects for all kinds of computing paradigms, such as ubiquitous, pervasive, AmI, mobile, universal, embedded, wearable, augmented, invisible, hidden, context-aware, sentient, proactive, and autonomic computing. UbiSafe is focused on theories and technologies for ubiquitous artifacts to function safely for different purposes; for ubiquitous systems to work safely in various situations; and for ubiquitous environments to behave safely with all people. A series of challenges exist to let people benefit from ubiquitous services, and simultaneously guarantee their safety in making ubiquitous safe artifacts, systems, and environments.

The UbiSafe-07 Symposium provides a forum for engineers and scientists in academia, industry, and government to address all safety related profound challenges including technical, social, legal and ethical issues on all aspects of Ubisafe Computing. This international symposium is aimed at promoting the exchange of the latest ideas, novel designs, theoretical and experimental results, and case studies among computer scientists, industry professionals, and researchers over the world. It provides insights into research activities in this nascent area through 23 articles from 14 countries selected after a careful review process. The selected papers span a broad range of research themes in Ubisafe Computing areas, such as, safety issues in ubiquitous environments, sensor networks, and embedded systems; authentication, authorization, and access control; trusted and dependable computing; security issues in grid, autonomic, agent, and web service systems; data mining and other intelligent techniques to address safety issues.

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