Call for Papers

1. Significance and Description
Pervasive computing (or ubiquitous computing) is a rapidly developing research area across various disciplines including computer science, electronic engineering, mobile and wireless communications, etc. The growing availability of microprocessors with built-in communications facilities makes it possible for people to obtain information and services anytime and anywhere. Pervasive computing could have a range of applications such as healthcare, homecare, intelligent transportation, and environmental monitoring. However, it is quite difficult for pervasive applications to satisfy trust, security and privacy requirements, as a result of their ability to gather sensitive information and change the environment via actuating devices autonomously.

2. Topics
This special issue in “The Journal of Supercomputing” (Springer) will focus on the trust, security, privacy, and related issues such as technical, social and cultural implications for pervasive devices, services, networks, applications, and systems. It suggests topics as follows, but not limited to:
(1) Trust, Security and Privacy (TSP) metrics and architectures for pervasive computing
(2) Trust management in pervasive environment
(3) Risk management in pervasive environment
(4) Security and privacy protection in pervasive environment
(5) Security and privacy in mobile and wireless communications
(6) Security and privacy for databases in pervasive environment
(7) Safety and user experiences in pervasive environment
(8) TSP-aware social and cultural implications in pervasive environment
(9) Cryptographic devices for pervasive computing
(10) Biometric authentication for pervasive devices
(11) Security for embedded software and systems
(12) TSP-aware middleware design for pervasive services
(13) TSP-aware case studies on pervasive applications/systems
(14) Key management in pervasive applications/systems
(15) Authentication in pervasive applications/systems
(16) Audit and accountability in pervasive applications/systems
(17) Access control in pervasive applications/systems
(18) Anonymity in pervasive applications/systems
(19) Reliability and fault tolerance in pervasive applications/systems
(20) Miscellaneous issues in pervasive devices, services, applications, and systems
3. Submissions
All contributions should be original and not published elsewhere or intended to be published during the review period. The authors’ guide is available at http://www.springer.com/computer/programming/journal/11227. To ensure high quality, all papers will go through a rigorous peer-review process by at least two international researchers.

4. Important Dates
Deadline for paper submission----------------------------- February 1, 2010
Notification of acceptance---------------------------------- May 1, 2010
Deadline for camera-ready paper submission---------August 1, 2010
Tentative publication---------------------------------------- December 2010

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