

IEEE Transactions on Systems, Man and Cybernetics (A)

Call for Papers

Special Issue Secure Knowledge Management

Guest Editors: H. R. Rao (SOM) and S. Upadhyaya (CSE) SUNY Buffalo

High quality manuscripts are sought for a special issue of IEEE Transactions on SMC (A). The purpose of this special issue is to bring together the works of researchers, designers, and implementers of secure knowledge management systems. In addition to traditional submissions, we specially welcome papers that promote methodologies of systems, man, and cybernetics. We encourage papers that describe industrial projects, prototype systems, exploratory or emerging applications. :

Knowledge management is the methodology for systematically gathering, organizing, and disseminating information. It essentially consists of processes and tools to effectively capture and share data as well as use the knowledge of individuals within an organization. Knowledge Management Systems (KMS) promote sharing information among employees and should contain security features to prevent any unauthorized access. Security is becoming a major issue revolving around KMS. Security methods may include authentication or passwords, cryptography programs, intrusion detection systems or access control systems. Issues include insider threat (protecting from malicious insiders), infrastructure protection (securing against subversion attacks) and establishing correct policies and refinement and enforcement. Furthermore KMS content is much more sensitive than raw data stored in databases and issues of privacy also become important.

Since the attacks in 2001, many organizations, especially the US government, have increased their concern about KMS. With the advent of intranets and web-access, it is even more crucial to protect corporate knowledge as numerous individuals now have access to the assets of a corporation. Therefore, we need effective mechanisms for securing data, information, and knowledge as well as the applications. The proposed workshop in Secure Knowledge Management will help in raising the awareness of academics and practitioners in this critical area of research and develop important questions that need to be tackled by the research community.

Topics of interest include, but are not limited to:

- Return of Investment on Secure Knowledge Systems
- Digital Rights Management (Digital Policy Management)
- Secure Content Management (Secure Content Management in Authorized Domains, Secure Content Delivery, Content Trust Index)
- Knowledge Management for National Security (Securing and Sharing What We Know: Privacy, Trust and Knowledge Management, Identity Security Guarantee, Building Trust and Security in the B2B Marketplace)
- Security and Privacy in Knowledge Management for Health Informatics
- Wireless security in the context of Knowledge Management

Manuscripts must be submitted electronically in word or pdf format no later than January 15, 2005 to JinKyu Lee: skm-2004@cse.Buffalo.EDU. In addition, on acceptance, a signed IEEE copyright form must be mailed or faxed to Jin Kyu Lee at 716-645-6117. All papers must conform to the normal IEEE Transactions on SMC submission requirements with total length, including figures and tables not to exceed 35 double-line spaced pages. See "Information for Authors" on the inside back cover of this issue or go to the IEEE web site at <http://computer.org/tc/edguide.htm>. Revised submissions of the works appeared in the Secure Knowledge Management workshop (<http://www.cse.buffalo.edu/caeiae/skm2004.html>) are automatically considered for this special issue. All other manuscripts must not have been previously published or currently submitted for journal publication elsewhere. All submissions should have a cover page containing author information (name, postal address, phone number, fax number, email address) and a 150-word abstract.

Important Dates

Manuscript Submission Deadline:	January 15, 2005
Acceptance/Rejection Notification:	May 30, 2005
Final Manuscript Due:	September 15, 2005
Publication Date:	March 15, 2006