Special Issue: *Advanced Technologies for Homeland and Cyber Defense*

Security subjects are becoming hugely important in the light of the development and deployment of new Homeland Defense solutions. Such solutions require the design of new computer systems and techniques allowing security procedures to be executed on many different planes. Advanced IT technologies based on intelligent algorithms that can analyze group behavior and interpret complex patterns or situations are increasingly frequently becoming the building blocks of the above solutions. In this context, it is worth noting research that combines security and defense aspects with achievements in designing advanced systems for the acquisition and sophisticated semantic analysis of complex image patterns and group behaviors. Such systems use cognitive models of semantic interpretation and can be applied to develop e.g. algorithms and protocols, but also to ensure the confidentiality and security of communication networks.

This issue will concentrate on both theoretical aspects and practical solutions that can be used to develop globally understood safe solutions connected with activities to strengthen national defense capability.

Topics

The aim of the proposed Special Issue is to promote research and reflect the most recent advances of technologies for for homeland and cyber defense, with emphasis on the following aspects, but certainly not limited to:

- Homeland Security and Information Processing
- Investigative and Computer System Related Forensic Techniques, Trends and Methods
- Network Forensics, Wireless and Mobile Forensics
- Cyber-Defense Threat Analysis
- Secure Communications, Cyber-Attack Countermeasures
- Vulnerability Analysis and Countermeasures
- Information Sharing and Secrecy
- Personal Security and Biometric
- Target and Pattern Recognition
- Semantic Image and Data Processing
- Security and Privacy in Ambient Intelligence
- Context and Location-aware Computing
- Embedded Systems in Security
- Knowledge-based Systems for Internet Security.

Paper Solicitation

Concerning the preparation of the manuscript, please refer to the "Instructions for Contributors" page at the journal website, http://wacong.org/autosoft/auto/. Further, the manuscript must be submitted in the form of PDF file to Dr. Ilsun You at ilsunu@gmail.com. The submission must include the title, abstract of your paper, and the corresponding author's name and affiliation. All papers will be rigorously reviewed based on the quality: originality, high scientific quality, well organized and clearly written, sufficient support for assertions and conclusion.

Please note that AutoSoft Journal has a nominal page charge of US $500 per 12 final pages and $150 per page afterwards. This contribution to expenses of the journal will bring with it two years e-subscriptions starting in 2014, 15 reprints. AutoSoft is the world's first technical journal on soft computing (computational intelligence) and it is now indexed by Science Citation Index Expand (SCI-E), Elsevier Publishers in Amsterdam, EBSCO, Geobase, Scopus, Mosby Yearbooks, EMBASE, Compendex, etc.

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Important Dates

Submission Due	January 31, 2015
1st Round Notification	April 10, 2015
Revision	May 15, 2015
Final Acceptance	June 30, 2015
Camera Ready Due	July 17, 2015
Publication	To be decided by Editor-in-Chief Mo Jamshidi