

# The Journal of Information Technology for Development

## Call for Papers: Special Issue on Cyber-Security for Development

Modern societies have become increasingly dependent on Information & Communication Technologies (ICTs), technologies that offer both opportunities & challenges with respect to improvements in the quality of life of people and the communities in which they live. For although the use of ICTs offer several potential benefits including improvements in efficiency & reduction in costs, and wide-spread access to information and services, they also expose individuals, organizations & nations to new risks including those that result from Internet-related security breaches and misuse of cyber-power. Inadequate understanding of the security implications of ICT acquisition, implementation, maintenance & retirement decisions can lead to significant negative impacts on individuals, organizations, and nations. While the exploration of organizational-related Cyber-Security issues has attracted the attention of researchers, less attention has been paid to Cyber-Security and National Development particularly within the context of developing countries. Thus there is the need for rigorous research that provides guidance to individuals, organization, planners and other government officials in developing countries, particularly those with limited financial, technical and other resources.

Cyber-security has been defined by the International Communications Union (ITU) to mean *the collection of tools, policies, security concepts, security safeguards, guidelines, risk management approaches, actions, training, best practices, assurance and technologies that can be used to protect the cyber environment and organization and user's assets*. It can be considered to involve several major threats including: espionage, cyber-crime, cyber-war, cyber-terrorism, and dis-information campaigns. For example a Cyber-Security breach could involve remotely corrupting the information/knowledge space of people and/or organizations or disrupting the flow of data/information between people and/or organizations. Important elements of a cyber-security culture include: awareness, responsibility, response, ethics, democracy, risk assessment, security design and implementation, security management, and reassessment.

In this special issue our focus is on Cyber-Security within the context of Developing Countries. Of particular relevance are papers that offer theoretical or design science contributions that relate to the concepts of Cyber-Security within the context of National Development agendas. The related concept of Cyber-Power (i.e. *the ability to use cyberspace to create advantages and influence events within & outside of cyberspace*) is also relevant to this special issue.

Topics of relevance to this special issue include but are not limited to the following:

- Norms for Cyber-Security in Developing Countries
- Cyber-Warfare & National Development;
- Cyber-Peace & National Development
- Cyber-Power & Destabilization
- National Security, Disinformation & National Development
- Cyber-Security and the Protection of Children
- Cyber-Security Impact Assessment for ICT
- Cloud Computing & the Protection of Critical National Assets
- Trust and Data Security
- Cyber-Security Infrastructure for Developing Countries
- Designing Effective & Efficient Cyber-Security Solutions for Developing Countries
- Capacity Building for Cyber-Security for Developing Countries

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- Security, Trust and Privacy
- Best Practice Model for Cyber-Security for Development
- Effective E-Government & Cyber Security
- Social Media/Networks & Cyber Security
- Cellular and broadband wireless nets
- Laws & Regulations for Cyber Security
- Public Utilities & Cyber-Security
- Cyber-Security Readiness Index for Developing Countries
- Internet protocols and policies to thwart fraud
- Organizational security implementation
- Identification & Protection of Critical Information Infrastructures
- Knowledge Management & Cyber-Crimes
- Impact of Culture on Cyber-Security

## ***Paper Submission Instructions***

Authors are invited to submit original papers using the journal submission and reviewing web site <https://mc.manuscriptcentral.com/itd>. The papers should follow the author's instructions at the site and indicate "Cyber Security for Development" special issue when uploading their papers. Submissions to the special issue should be full research papers (maximum 21 pages or 9000 words) or practice papers of about (4000 words). After initial screening, papers are reviewed by selected members of the editorial board and peers from an international pool for quality, consistency and research contribution. Authors are welcome to nominate one of the special issue editors or preferred reviewers when submitting their paper. Particular attention is paid to the use of the chosen research method. Papers submitted to this journal must contain original results and must not be submitted elsewhere while being evaluated for the Journal of Information Technology for Development. Detailed submission guidelines can be found at: <http://www.tandf.co.uk/journals/journal.asp?issn=0268-1102&linktype=44>.

## **Guest Editors:**

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## **Background of special issue editor(s)**

### **Kweku-Muata Osei-Bryson**

Kweku-Muata Osei-Bryson is Professor of Information Systems at Virginia Commonwealth University, where he also served as the Coordinator of the Ph.D. program in Information Systems during 2001-2003. Previously he was Professor of Information Systems & Decision Sciences in the School of Business at Howard University, Washington, DC, U.S.A. He has also

### **Doug Vogel**

Doug Vogel is Professor of Information Systems (IS) at the City University of Hong Kong and Acting Management Department Head as well as an Association for Information Systems (AIS) Fellow and AIS President-elect. He received his M.S. in Computer Science from U.C.L.A. and his Ph.D. in Management Information Systems from the University of Minnesota where he was also

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worked as an Information Systems practitioner in both industry and government. He holds a Ph.D. in Applied Mathematics (Management Science & Information Systems) from the University of Maryland at College Park.

His current research areas include: Data Mining, IS Security, Data & Knowledge Management, Expert & Decision Support Systems, e-Commerce, IT for Development. His papers have been published in various journals including: *IT for Development*, *Decision Support Systems*, *IEEE Security & Privacy*, *Information Systems Journal*, *European Journal of Information Systems*, *Journal of the Association for Information Systems*, *Expert Systems with Applications*, *Omega*, *Computers & Operations Research*, *European Journal of Operational Research*, *Journal of the Operational Research Society*. Currently he serves as Vice-Chair for Research of the AIS SIG on ICT in Global Development, as an Associate Editor of the INFORMS Journal on Computing, and on the Editorial Board of the Computers & Operations Research journal, and the International Advisory Board of the Journal of the Operational Research Society.

research coordinator for the MIS Research Center. In a ten-year relationship with a Colorado electronics manufacturer he served in virtually every technical and managerial capacity including Director of Engineering, General Manager and member of the Board of Directors.

Professor Vogel has published widely and been recognized as the most cited IS author in Asia Pacific. His teaching and research interests bridge the business and academic communities in addressing issues of information system creation and impact on aspects of interpersonal communication, group problem solving, cooperative learning, and multi-cultural team productivity in security-enabled contexts. His interests reflect a concern for encouraging efficient and effective utilization of computer systems in an atmosphere conducive to enhancing the quality of life. He is especially active in introducing group support technology into enterprises and educational systems. His particular focus emphasizes security-sensitive integration of audio, video, and data in interactive distributed group support. Additional detail can be found at <http://www.is.cityu.edu.hk/staff/isdoug/cv/>.

## Timeline and Review Guidelines

Deadline for manuscripts:	September 15, 2012
Preliminary notice to authors:	December 15, 2012
Revision Due:	February 15, 2013
Final Manuscript Due:	April 30, 2013

Each submitted paper will be peer-reviewed in the same manner as other submissions to Journal of IT for Development. Relevance, Quality and originality of the contribution are the major acceptance criteria for each submission. Due to the tight deadline, papers for which the outcome is “*Major Revision*” will not be accepted for this focused issue, but may be put into the journal’s regular review process and, after revision is complete, be considered for a regular issue of the journal