



CALL FOR PAPERS

'Digital Ecosystems and Cyber Engineering'
-The future technology for industrial revolution

Theme: As our dependence on the cyber infrastructure grows ever larger, and more self-organised, complex and more distributed, the systems that compose this infrastructure become more prone to decentralisation, exploitation and failure. Cyber engineering is multi-technology driven which deals with engineering design and optimisation based on advanced and cutting-edge technologies such as wireless, Bluetooth, WiFi, WiMAX, IPv6 and intelligent Auto-ID. Cyber engineering underpinning the digital ecosystems, the environment we live. It provides technological foundations for design and optimisation of our resources, industries, manufacturers, transport, logistics, government, health and businesses. Digital ecosystems are essentially about creating value by making connections in different domains through the use of the modern networked society and economy supported by different forms of collaborative IT frameworks. They lie at the intersection between industry, business, human endeavours, social science, and cutting edge internet technologies and are application driven research. Digital ecosystems and cyber engineering are targeted at intelligence, collaboration, survivability, reliability and security so that the cyber infrastructure and the digital ecosystem environment are properly operated and maintained. This Special Section will focus on the cutting-edge techniques, recent advances and new technical challenges in the worldwide research community of digital ecosystems and cyber engineering. Topics of interest of this Special Section include, but are not limited to:

- **Digital ecosystems and creating value by making connections:** distributed, self-organised, autonomous and multi-agent systems, swam-intelligence, distributed web services and their applications, security, privacy and trust, authentication and key distribution, knowledge sharing, modelling and dissemination, social networks and virtual communities, survivability, reliability, dependability, accountability and safety for industry and commerce, architecture protocols, platforms, frameworks and verifications which support digital ecosystems to benefit industries such as resources, mining, manufacture, transport, health industry, government, business and education.
- **Cyber engineering in industrial revolutions:** cyber software, cyber middleware, cyber data security, trust and data mining, cyber risks, web semantics, web services, collective intelligence, cyber collaboration architecture, methods and tools, with application to industry, government and business, wireless sensor networks, Bluetooth, WiFi, IPv6, RFID, convergent technologies, wireless network protocols, models, architectures and applications.

Manuscript Preparation and Submission

Follow the guidelines in 'Information for Authors' in the IEEE Transactions on Industrial Electronics <http://tie.ieee-ies.org/tie/>

Please submit your manuscript in electronic form through Manuscript Central: <http://mc.manuscriptcentral.com/tie-ieee>. On the submitting page #1 in pop-up menu of manuscript type select: SS on Digital Ecosystems and Cyber Engineering

Timetable Deadline for manuscript submissions 20 January 2009

Information about manuscript acceptance	30 April 2009
Final 'Camera Ready' due	1 June 2009
Estimated publication date	2009

Guest Editors

Elizabeth Chang	DEBI Institute, Curtin University, AUSTRALIA	elizabeth.chang@cbs.curtin.edu.au
Tel: +61 8 9266 1235 / 7085 / 9272	Fax: +61 8 9266 7548 / 4846	tharam.dillon@cbs.curtin.edu.au
Tharam Dillon	DEBI Institute, Curtin University, AUSTRALIA	damiani@dti.unimi.it
Ernesto Damiani	University of Milan, ITALY	misko@uidaho.edu
Milos Manic	University of Idaho Idaho Falls, USA	karduck@hs-furtwangen.de
Achim Karduck	Furtwangen University, GERMANY	snimmagadda@kuwait.oilfield.slb.com
Shastri Nimmagadda	Schlumberger, East Ahmadi, KUWAIT	kuester@fh-worms.de
Macus Wilhelm Küster	FH Worms, Fachbereich Informatik/Telekommunikation, GERMANY	alex.telavski@cbs.curtin.edu.au
Alex Talevski	DEBI Institute, Curtin University, AUSTRALIA	sergiustan@ieee.org
Sergiu-Dan Stan	Technical University of Cluj-Napoca, ROMANIA	Stig.Petersen@sintef.no
Stig Petersen	SINTEF, NORWAY	

Editor-in-Chief: **Bogdan M. Wilamowski**
tieedit@auburn.edu Tel: +1-334-844-1629

Journal Administrator: **Sandra McLain**
theadm@auburn.edu Tel: +1-334-844-1887

Alabama Nano/Micro Science and Technology Center, Auburn University, 200 Broun Hall, AL 36849-5201, USA
 Fax: +1-334-844-1888