

**IEEE - ICIT'2009**  
**International Conference on Industrial Technology**  
10-13 February, 2009  
Churchill, Victoria, Australia  
<http://www.ieee-icit09.org/>

**Invitation to the Special Section on**  
**Industrial IT for humanity with Confident Computing**

Over the last 30 years, we see 4 stages of Industrial Technology (also know as Industrial IT) evolution, first, there is a wide application development and usage at every organization in the 1990s; we then see a wide adaptation in the new field of studies in the 2000s, such as Bio, Geo and Nano technologies; this is followed by a wide Industrial IT assimilation in all part of the society and environment at around 2005; and now, with maturity of the technologies, we need articulation of the Industrial IT sentiment for the benefit of every human life. With the move from agile ICT products to service oriented computing to the next 5-10 years, a resource-oriented computing and the move to improve our society and human life, we see the shift from human system computing to *social computing*, and focused on creating value by making connections and this is the essence of *Confident Computing*. The emphasis here is the study of what humans can do rather than what computers can do, and deals with all aspects of human psychological wall about Industrial IT and brings about technologies such as trust, privacy, security and collective intelligence into Industrial IT for humanity. Topics here:

**Specific topics of interest**

- Trust and Trustworthy computing
- Security and Safety computing
- Risk measure and risks prediction
- Privacy and Privacy Ontologies
- Collective Human Intelligence
- Digital Ecosystems and Technologies
- Human space computing
- Personal space technologies
- Human System Interaction
- Confident Computing
- Extreme Interfaces
- Social Computing

**Authors' Schedule:**

Authors should contact the Special Session Organizers as soon as possible and consider schedule presented at ICIT'2009 website.

**Submission of Papers:**

Papers are to be submitted electronically. For further details please consult the conference web pages.

**Session Organizers:**

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Invitation to the Special Section on:

**MEGA IT FOR SUSTAINABLE DEVELOPMENT**

Consider the following six mega trends of the early part of the 21<sup>st</sup> Century:

- (1) The production of technological information doubles every 2 years, and there is new technical information available every 72 hours [IDC report 2006]. This has been a major driver of technological advancement over the last 30 years and will be even more influential over the next 30 years.
- (2) The tsunami of data in 2006 alone generated 161 exabytes of information worldwide, that is more than the last 5,000 years of data all together [M. Brodie, IEEE DEST2008 keynote]. IDC estimate that by 2010 there will be 6 times the growth to a staggering 986 exabytes and shrinkage of structured data from 50% in 1990 to 5% in all organisations in 2010.
- (3) Web 2.0, 3.0 and 4.0 - the interactive connectivity and the internet make everything possible.
- (4) The Platinum Age [Garnaut, 2008] of the most rapid global economic growth ever is the post-2000 period. The energy demands of this growth are fuelling the most rapid consumption of fossil fuels and land, generating staggering increases in greenhouse gas emissions. Concerns about interference with the climate and the responses do not appear so far to dent this growth.
- (5) Climate change impacts are accelerating from melting Arctic, Antarctic and mountain ice and snow to warming oceans, bleaching corals and burning forests and peat bogs. Concentrations of greenhouse gas emissions have already reached dangerous levels risking rapid global warming and are still accelerating.
- (6) All human activity is now affected by climate change impacts, as does the planning of all facets of life in the future. These impacts will accelerate.

While these threats from the addiction of civilisation to fossil fuels and exploitation of natural habitats is causing diabolical policy problems [Garnaut Draft Report, 2008], the mega trends in information and technology have the potential to provide solutions not yet imagined. It is likely that truly innovative ideas leading to sustainable development solutions will attract massive funding as governments comprehend the scale of the challenge before the world.

This special session is seeking research papers in Mega IT from all social, economical, science and engineering disciplines to address these six mega trends.

**Specific topics of interest** include but are not limited to:

- Energy and water efficiency technologies, urban and regional renewal technology programs;
- Threat from climate change to urban, regional and rural environments, technologies to minimise threats or mitigate their consequences, systems modelling and assessment;
- Wireless, Bluetooth and data mining technologies for track, trace and monitoring of resources development, services quality and infrastructure sustainability; and
- Ecosystems diversity and dynamics with digital ecosystems and technologies.

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**Invitation to the Special Section on**

**Wireless Bluetooth Technologies and Cyber Security**

Nowadays communication, entertainment, transportation, shopping and medicine have more and more relied on computers and the Internet. The widespread use of wireless computing, mobile devices and networks has raised security concerns. Cyber security aims at protection against unauthorized disclosure, transfer, modification, or destruction, whether accidental or intentional.

We invite researchers, practitioners and others interested in wireless Bluetooth technologies and cyber security to submit original research paper or technical report to this Special Session on Wireless Bluetooth Technologies and Cyber Security conjunction with IEEE ICIT 2008. Topics are list as follows but are not limited to:

Bluetooth Enterprise Systems	Key Management in Wireless Networks
Cellular Systems	Key Distribution in Wireless Sensor Networks
Digital Pens	Cross-layer Design and Optimization
Multimedia communications over Wireless	Ad-hoc Wireless Networks
Location Management	Mobile Internet
Wireless Networks Standards and Protocols	Bluetooth Internet
RFID Systems	Ubiquitous Networks
Protocols for Mobile Networks	Smart Sensors and Sensor Networks
Security, Privacy and Authentication in Mobile Environments	Bluetooth Home Networks
Wireless Sensor Networks	3G and 4G Wireless Networks

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