



## "Ecosystem Oriented Architecture and Human Space Computing in Industrial Ecosystems"

**The Theme:** Our real world is becoming increasingly digital and our digital world is becoming increasingly real. We are living in a world that is composed of digital objects and digital technology. It revolutionized our industrial operations, services, and human Endeavour. Today, industry and humanities as well as technologies are truly in the midst of digital environment that is driven by ICT (Information Communication Technologies) and cyber Informatics. The digital ecosystem that we inhabit depends on us as much as we depend on it. Driven from this idea, the nature of computing has evolved into ecosystem oriented architecture and ecosystem inspired computing which is beyond SOA and web service, and this has resulted in a new trend of exploring the new concept of Ecosystem Oriented Architecture (EOA). EOA is far richer and far capable than SOA in terms of architectural nature, dynamic self organized frameworks, evolutionary systems, domain rich environments and knowledge based applications. This is further enriched by the ecological behaviour of collective intelligence, collaboration, survivability, reliability and security of natural ecosystems.

Ecosystems inspired digital industry and human spaces lie at the intersection between industry, human endeavours and advanced ICT, merging as multi-disciplinary, inter-sciences, inter-disciplines and trans-disciplinary field of studies and are application driven research. Digital Industries and human spaces seek advanced cooperation and competition to benefit the society, humanities and communities. This Special Section will focus on the cutting-edge techniques, recent advances and new technical challenges in the worldwide research community of digital technology which is enriching our daily lives and ecosystem inspired computing.

Topics of interest of this Special Section include, but are not limited to Ecosystems Oriented Architecture, beyond SOA; Human Space Computing; Industrial Wireless Ecosystems; Grid Ecosystems; Sensor Ecosystems.

### Manuscript Preparation and Submission:

Follow the guidelines in "Information for Authors" in the IEEE Transaction on Industrial Informatics <http://tii.ieee-ies.org/>  
Please submit your manuscript in electronic form through Manuscript Central web site: <http://mc.manuscriptcentral.com/tii>. On the submitting page #1 in popup menu of manuscript type, select: SS on Ecosystem Inspired Architecture

Submissions to this Special Section must represent original material that has been neither submitted to, nor published in, any other journal. Extended versions of papers previously published in conference proceedings may be eligible for consideration if conditions listed in <http://tii.ieee-ies.org/o/PC.pdf> are fulfilled. Before submitting manuscript check the review criteria (<http://tii.ieee-ies.org/o/RC.pdf>) and other information (<http://tii.ieee-ies.org/o/DI.pdf>)

**Note:** The recommended papers for the section are subject to final approval by the Editor-in-Chief. Some papers may be published outside the special section, at the EIC discretion.

### Timetable:

**Deadline for manuscript submissions**

**30 April 2012**

### Guest Editors:

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