Summary

A special issue of ITcon: Journal of Information Technology in Construction (www.itcon.org) will be published on the theme of "Next Generation Construction IT: Technology Foresight, Future Studies, Roadmapping, and Scenario Planning". It will feature several "by invitation only" papers from lead experts and visionaries in the area of construction IT in addition to select papers received through an open call for papers.

This peer-reviewed special issue of ITcon will feature in a special vision planning workshop on the 26th of January, 2009 in Manchester where select authors will be invited to present their papers. After the publication of this special issue in the Spring of 2009, select papers may furthermore be considered for publication in a non-commercial book in both print and electronic form.

Open Call for Papers

The editors of this special issue of ITcon on "Next Generation Construction IT: Technology Foresight, Future Studies, Roadmapping, and Scenario Planning" would like to invite you to consider contributing a paper on the following (or other relevant) topics addressing next generation construction IT in terms of technology foresight, future studies, roadmapping, scenario planning, etc.

- Value-Driven Business Processes
  performance-driven processes, process orchestration, metrics, indicators, requirements engineering, mass customisation, life-cycle optimisation, etc.
- Industrialised Production
  ICT (information and communications technology) support for modular provision of customisations, logistics, on-site production and assembly, ambient access to product information, etc.
- Digital Models
  nD models, access to life time information for all stakeholders anywhere anytime; ICT for design, configuration, analysis, simulation, and visualisation, object operating platforms, model based services, self-optimising models, etc.
- Intelligent Constructions
  Smart embedded systems, devices for monitoring and control, embedded learning, ubiquitous networks, dynamic control and configuration of smart devices, personalised context-aware services, etc.
• Interoperability
  Model servers, distributed adaptive components, ontologies and open ICT standards for semantic communication, ICT infrastructures, web-based logic and reasoning, self-organising context aware systems, object servers and distributed adaptive systems, model-based applications and agents, etc.
• Collaboration Support
  Virtual communities, web-services for dynamic virtual teams, inter-enterprise workflow support, model-based collaboration platforms and tools, virtual workspaces, dynamic interfaces to enterprise systems, security and trust technologies, etc.
• Knowledge Sharing
  ICT for transforming project experiences into corporate assets, object repositories, IPR protection of complex shared data, semantic tools, adaptive and context aware applications, knowledge mining, semantic search, adaptive and context aware applications, distributed content management and decision support systems, etc.
• Next Generation Business Models
  Partnering and collaboration support, ICT based contracts, design and service configuration and management, intelligent product and service integration, etc.
• Energy Efficiency and Sustainability
  Integrated sensor networks, performance metrics, positive energy buildings, smart renovations, configurable building spaces, environmental impact assessment, building monitoring and optimising systems, self-optimising building controls, etc.

Expression of Interest

The editors would like to invite expressions of interest in the form of extended abstracts from authors wishing to contribute to this special issue. Extended abstracts should be no more than 500 words and should be submitted in the described form.

Key Dates and Publication Timeline

• 15 July 2008: Submission of expressions of interest (extended abstracts)
• 30 July 2008: Notification of acceptance and invitation to full papers
• 15 October 2008: Submission of full papers
• 15 November 2008: Review comments sent to authors
• 26 January 2009: Vision planning workshop in Manchester, UK
• 28 February 2009: Submission of revised final formatted papers
• 31 March 2009: Publication of papers on ITcon website
• May 2009: (Tentative) publication of papers in book on "Next Generation Construction IT"

Submission

Extended abstracts should be composed (in the format provided) by email, MS Word, or Adobe PDF, and sent by email to the Guest Editors of this special issue:

- Dr. Abdul Samad (Sami) Kazi, VTT – Technical Research Centre of Finland at Sami.Kazi@vtt.fi
- Prof. Ghassan Aouad, University of Salford at G.Aouad@salford.ac.uk
- Prof. Andrew Baldwin, Loughborough University at A.N.Baldwin@lboro.ac.uk

Full Details

For full details on this special issue of ITcon and the above call for papers please see: www.itcon.org/cqibin/special/Show?_id=2009nextgenc onstruction

Short Introduction to ITcon

The Journal of Information Technology in Construction (ITcon) is a peer-reviewed scholarly journal on the use of IT in architecture and civil engineering. ITcon articles are submitted and published electronically only. The Journal is committed to minimizing publication delays, and to promoting maximum flexibility in the ways that readers use the journal for teaching, research, and scholarship while maintaining strict peer-review standards.

ITcon is an Open Access journal and its articles can freely and with no charge be read by anybody who has an Internet connection. The copyright of the articles remains with the authors.

From its founding in 1995 until the end of 2006 the journal used the title Electronic Journal of Information Technology in Construction, but the term electronic has now been dropped as superfluous since the majority of scientific journals are nowadays available also as electronic versions.

The operation of the journal is a voluntary effort combining forces of a global community of researchers in its field, and has its origins in the working commission W078 (Information Technology for Construction) of the International Council for Research and Innovation in Building and Construction (CIB), which latter has also been the official publisher of the journal since 2005 (The publisher was earlier the Royal Institute of Technology, Stockholm, Sweden). In 2005 the IT-AEC journal merged with ITcon, further strengthening the journal’s base of editors and reviewers. ITcon is indexed in the DOAJ, ICONDA and the ITC Digital Library, and its articles are highly visible in for instance Google Scholar.

ITcon’s Editor in Chief is Professor Bo-Christer Björk, Swedish School of Economics and Business Administration, Helsinki, Finland.

ITcon can be found at: www.itcon.org/