

Computers In Industry

Special Issue on "ICT for Sustainability in Industry"

Aim and scope

Sustainability, defined by its Economic, Societal and Environmental axes, is clearly one of the major challenges of our societies in the next future. Industry, and more specifically manufacturing, is highly concerned with this challenge. In this context, the goal of this special issue is to investigate how recent innovations in ICT - e.g. ambient intelligence, intelligent product, semantic web, social networks, cloud computing etc. - may help the industrial sector to address these challenges.

Examples of sustainability needs to be covered

- Performance, Quality and Safety in Industry: societal and environmental indicators, green supply chain, industrial eco-systems, versatile manufacturing systems, crisis management, resilient industrial systems,...
- Natural resources and Environment: energy savings, maximum added-value with minimum resources, reduction of carbon emissions, local production, eco-design, eco-labels,...
- Lifecycle thinking: reverse logistics, reuse, recyclability, design for sustainability, "augmented PLM"...
- Human Capital and Knowledge-based sustainability: human-centred factory, capitalization of human experience,...
- Innovation: new manufacturing paradigms, innovation in product design, new services, new relationships in supply chains,...

Examples of ICT solution methods and technology

- industrial information systems: MES, ERP, CRM, APS...
- geographical information systems,
- data mining, semantic web, knowledge engineering, lessons learned systems,
- ICT support for knowledge and competence management,

- web 2.0: wikis, social networks, mashups, blogs, social bookmarking, instant messaging,
- virtual/augmented reality,
- “Cyber-physical Systems”, “ubiquitous systems”
- portable communication tools: smartphones, tablets,...
- internet of things,...

Submission guidelines

Prospective authors are asked to submit their paper on the web site of the journal dedicated to special issues:

<http://ees.elsevier.com/comindsi/>

Full papers submission:	February 30th, 2013
First round of reviews notifications:	1st April, 2013
Submission of the revised papers:	30 April, 2013
Final papers due:	30 September
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