

2012 IEEE 6th International Conference on Information and Automation for Sustainability

(ICIAfS 2012)

27-29 September 2012,
Beijing China

CALL FOR PAPERS



The conference organizing committee invites researchers and practitioners worldwide to submit papers. Topics of interest include, but are not limited to:

1. Industrial Automation:

Systems modeling and control / Mechatronics / Industrial and manufacturing automation / Industrial informatics / Industrial Electronics / Industrial robotics and control / Smart grids / Supply-chain management / Quality management / Testing and screening / System safety / Program and project management / Integrated manufacturing and service systems / Intelligent transportation systems / AI and computational intelligence in IAMS .

2. Wired and Wireless Integration:

Hybrid access optical networks / Microwave-millimeter wave over fibre / Wireless communications technologies / Sensor networks / Home security / Cyber infrastructure / Grid technology / Living in a wireless world - applications / Information sharing / Internet technology / AI and computational intelligence WSTP / High speed data networks/ Cloud computing.

3. Intelligent Machines and Man-machine Co-existence:

Pattern recognition / Image processing / Machine learning / Expert systems / Decision support systems / Soft computing / Data fusion, data mining and knowledge discovery / Bio-robotics / AI and computational intelligence in IMMMC / Sensor design, integration, and fusion / Machine vision / Man-machine interfaces / Brain-computer Interface / Bioinformatics and bioengineering / Neural networks / Fuzzy systems / Evolutionary computation.

4. Information and Communication Technology (ICT) and Social Transformation:

Impact of ICT on society / E-transformation of organizations / Technologies to support process automation / Technologies to support collaborative work / Semantic web technologies / E-learning systems and applications /E-commerce / E-governance / Ubiquitous, collaborative and learning organizations.

5. Sustainable Energy: Energy harvesting and implementation / Electricity transmission / Grid connection / Smart grid / Energy conversion, management and policy / Energy storage / Renewable energy / Cogeneration / Energy efficient equipment and systems / Climate change mitigation / New materials / Nanotechnologies.

6. Disaster Management: Remote sensing and Earth observation/ Geographic information systems/ Crises management/ Rapid mapping/ ICT for disaster risk reduction/ Global positioning – GNSS/ Spatial modeling/ Emergency management/ Early warning systems/ Vulnerability to disasters/ Spatial information interoperability/ Collaboration and Collaborative systems/ Human-computer interaction/ Crowdsourcing mapping/ Social media/ Geosensor networks/ Collective sensing/ Decision analysis and technologies/ Hazard and risk simulation/ Recovery and sustainability.

Important Dates:

Submission of paper (4-6 pages):	30 th April, 2012
Notification of acceptance:	31 st May, 2012
Submission of full paper:	31 st July, 2012
Author registration:	25 th August, 2012

Organizing committee

Conference Chairs:

Prof Ruwei Dai, *Chinese Association of Automation, Beijing, China*
Haisheng Chen, *Chinese Academy of Sciences, Beijing, China*
Sanjeeva Witharana, *University of Leeds, UK*

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