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# CALL FOR PAPERS

15<sup>th</sup> IFAC/IEEE/IFIP/IFORS Symposium  
on Information Control Problems  
in Manufacturing

**WWW.INCOM2015.ORG**

The INCOM symposium is the triennial flagship IFAC conference in the broad area of advanced manufacturing and complex information systems. The theme of INCOM 2015 is **"Advanced Information and Manufacturing Systems for a Sustainable Economy"**.

Papers are solicited on all aspects of design, modeling, implementation and operation of modern manufacturing and logistics systems. The technical topics include, but are not limited to:

- **ADVANCED MANUFACTURING, TECHNOLOGIES AND SYSTEMS** – Recent advances, technologies for aerospace, power, nuclear, biopharmaceutical and medical industries, modern transportation and vehicle systems, materials and structures, nano-systems, mechatronics, CAD/CAE/CIM, 3-D printing.
- **ROBOTICS AND AUTONOMOUS SYSTEMS** – Tele-robotics and space robotics, modelling and optimization in robotics, multi-robot systems, IMS, intelligent vehicles, automated manufacturing, CNC machines, flexible manufacturing systems, web-enabling manufacturing control and wireless automation.
- **OPERATIONS MANAGEMENT IN PRODUCTION SYSTEMS AND LOGISTICS** – Design and balancing of production systems, facility planning, production planning and scheduling, inventory control, workflow management, outsourcing, warehousing, supply chain engineering and management, market responsive and green supply chains, RFID.
- **ENTERPRISE MODELLING AND INFORMATION SYSTEMS** – Enterprise modelling, integration and networking, virtual production networks, collaborative systems, service oriented architectures, net-enterprise, IT systems control and interoperability, next generations of infrastructure, complex systems.
- **MODELING AND OPTIMIZATION** – Operational Research, Artificial Intelligence, multi-agent technologies, multi-objective optimization, Discrete Event Systems, performance evaluation, semantic web, Big Data and Data Mining, Cloud technologies.
- **SAFETY AND SECURITY** – Monitoring, diagnosis and maintenance, risk assessment and reliability, sensor design, integration and fusion, remote sensing applications, network and cyber-security, safety in nuclear industry, regulatory issues.
- **HUMAN AND SOCIAL FACTORS** – Fostering innovations in modern economies, socio-technical and cognitive aspects of automation, design for reusability, Human-Machine Systems, life science and health care applications, environment monitoring, renewable energy technologies, sustainable economies.
- **APPLICATIONS, INDUSTRIAL PROJECTS AND CASE STUDIES**

The program of INCOM 2015 will consist of several kinds of presentations, including regular and invited sessions, special industrial sessions, dissertation sessions and workshops.

**Regular papers** - Authors are invited to submit draft papers (6 pages) reporting original research of theoretical or applied nature. Guidelines for the preparation of manuscripts are provided on the IFAC website: <http://www.ifac-control.org/events/information-for-ifac-authors>.

**Invited sessions** - Invited sessions consist of 5-6 papers focusing on targeted subjects and presenting a unifying theme. Proposals must describe the relevance of the session and be accompanied by full versions of each paper.

**Special sessions** - Special sessions offer a venue for the presentation of topics of special academic, social or industrial interest, such as emerging research areas or most recent trends in manufacturing engineering. Special sessions will also include *Doctoral Consortium*. Those interested in holding special sessions, workshops or exhibits are invited to contact the conference secretariat ([secr@incom2015.org](mailto:secr@incom2015.org)).

Complete manuscripts and session proposals must be electronically submitted through the PaperPlaza Conference Manuscript Management System (<https://ifac.papercept.net>).

**Post-symposium publications** - Proceedings will be hosted on-line on the [IFAC PapersOnLine.net](http://www.ifac-control.org) website and submitted for indexation by Thomson Reuters Web of Science, Scopus, INSPEC, and EI (Elsevier Index). The presented papers will be further screened for publication in the IFAC Journals (*Automatica*, *Control Engineering Practice*, *Annual Reviews in Control*, *Journal of Process Control*, *Engineering Applications of Artificial Intelligence*, and *Mechatronics*). Extended versions of selected papers will also be published in other Operational Research, Manufacturing Engineering and Industrial Engineering journals.

## IMPORTANT DATES

Special/Invited Session proposals: ..... October 15, 2014  
Regular paper submission: ..... **November 1, 2014**  
Special/Invited paper submission: ..... **November 15, 2014**  
Notification of acceptance: ..... February 1, 2015  
Camera ready and registration: ..... **March 1, 2015**