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7-9 JUNE 2021 BUDAPEST- HUNGARY



17TH IFAC SYMPOSIUM ON INFORMATION CONTROL PROBLEMS IN MANUFACTURING

INFORMATION CONTROL IN THE CYBER-PHYSICAL ENTERPRISE: TECHNOLOGICAL BREAKTHROUGH VS. CULTURAL REVOLUTION

CALL FOR PAPERS

WWW.INCOM2021.ORG

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SZTAKI



CENTRE OF
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Production Informatics and Control

The 2021 IFAC Symposium on Information Control Problems in Manufacturing (INCOM2021) represents the 17th event in the rich tradition of IFAC in manufacturing sciences and information technologies.

The cyber-physical era, frequently called the fourth industrial revolution (Industry 4.0), i.e., the intersection of the two worlds in an unprecedented extent – like in other fields – fundamentally influences the modeling, management, and control of the production structures from the processes/machines through the manufacturing systems and enterprises to the level of production networks, including logistics.

The symposium aims to provide a forum for exchanging knowledge, reviewing and discussing theoretical advances, research results, and industrial experiences in this exciting and highly relevant field.

Authors from academia and industry are encouraged to join the event and share their research results and empirical insights focusing on one of the following themes:

- Digitalization for Modelling and Controlling Smart Manufacturing Systems and Networks
- Modeling, control, and optimization of smart production systems and networks
- Simulation, control, and monitoring of resilient production systems and networks
- Operations management in production systems and logistics
- Lifecycle management, product-service systems and technologies
- Newest trends in enterprise modeling and information systems
- Human and social factors in production systems and networks
- New advances in robotics and autonomous systems
- Advanced reliability, maintenance and safety engineering and technologies
- Sustainable production, circular economy
- Biological transformation in production
- Human-robot cooperation
- Cyber-physical production and logistic systems
- AI and machine learning applications in production and logistics

The program of INCOM 2021 will include regular, invited and special sessions, workshops and tutorials.

REGULAR SESSIONS

Authors are invited to submit draft papers reporting original research of theoretical or applied nature. Final manuscripts are limited to 6 pages.

INVITED SESSIONS

Invited sessions consist of papers focusing on targeted subjects and presenting a unifying theme. Invited session organizers should submit an abstract that summarizes the aim and the content of the invited session. If at least 5 papers are accepted, the session is included in the symposium program as an invited session, otherwise, the papers will be included in regular sessions.

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 the most recent trends in manufacturing engineering.

The format of special sessions is more flexible; it allows a panel discussion, led by the session chair(s), to motivate the exchange of opinions among presenters and participants.

OPEN INVITED TRACKS

Open Invited Tracks consist of regular papers focusing on targeted subjects; they have no upper limit on the number of papers; only those tracks having gathered more than 5 papers will be considered.

PAPER SUBMISSION

All manuscripts as well as Invited/Special Session proposals and Open Tracks must be electronically submitted through the PaperPlaza Conference Manuscript Management System at: <https://ifac.papercept.net>

The list of accepted session proposals is available at: <https://incom2021.org/call-for-papers.html>

Guidelines for the preparation of manuscripts are provided on the IFAC website:

<http://www.ifac-control.org/events/author-guide>

All papers will be accepted with the understanding that they will be presented at the conference.

At least one author of each accepted paper will be required to register for INCOM2021 before uploading the final version.

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POST-SYMPOSIUM PUBLICATIONS

The IPC of INCOM2021 may screen presented papers with the purpose of recommending the authors to consider significantly extended versions in one of the IFAC Journals and other high-ranked journals:

- Annual Reviews in Control
- Engineering Applications of Artificial Intelligence
- International Journal of Computer Integrated Manufacturing
- Computers & Industrial Engineering
- Journal of Industrial and Intelligent Information
- Enterprise Information Systems
- Journal of Intelligent Manufacturing Systems
- International Journal of Production Research
- Production.

VENUE

In Budapest, there are ruins from the times of the Roman Empire as well as from the Middle Ages. Its main characteristics reflect the atmosphere of the end of the 19th century when the millennium of the Hungarian State was celebrated. It boasts a number of museums, theatres, concert halls, a lot of restaurants and other amenities.

Several baths and thermal waters of various medicinal springs are also at the disposal of visitors.



IMPORTANT DATES

Special/Invited Session/Open Tracks proposal
30th September 2020

Draft paper submission
31st October 2020

Notification of acceptance
15th December 2020

Camera-ready final manuscripts
1st February 2021

Early registration deadline
8th February 2021

Late registration deadline
1st April 2021