



International Conference on Computers & Industrial Engineering CIE45



Call for papers -- Special Session on: Health management for durable cyber-mechatronic systems for CIE45 October 28-30, 2015 - Metz, France

Session chairs

Prof. Kondo H. ADJALLAH, LCOMS, ENIM, France

Dr. Alexandre SAVA, LCOMS, ENIM, France

Prof. Krzysztof J. Kaliński, GUT, Poland

Session description

The fourth industrial revolution requires new knowledge and skills in engineering of cyber-physical infrastructure design and implementation. The cyber-mechatronics devices will play a major role in this context of development, safe operation and competitiveness of new generations of manufacturing systems. Industrial cyber-physical systems of manufacturing could be considered as cyber-mechatronics networked systems of manufacturing for which health integrity, safety and security require peculiar attention. Health management of durable cyber-physical mechatronic systems is a challenging problem due, on one hand, to the heterogeneous nature of interacting components and, on the other hand, to the technological and environmental changes that the systems must face during its life time. This special session aims to gather valuable contributions related, but not limited to, the following topics:

Topics

- ▶ Lifecycle health management of durable mechatronic infrastructures
- ▶ Health condition monitoring and e-maintenance of networked mechatronic systems
- ▶ Design, safety and security specification approaches for cyber-mechatronic infrastructures
- ▶ Resilience and reconfiguration strategies for durable cyber-mechatronic systems

Submission

Please submit your full paper on the EasyChair website:

<https://easychair.org/conferences/?conf=cie45>

May 31, 2015: deadline for paper submission

June 21, 2015: notification of acceptance/reject

July 15, 2015: deadline for final paper

August 16, 2015: deadline for registration

Practical information

All papers must be written in English and should describe original work. The length of the paper is limited to a maximum of 8 pages (in the standard CIE conference format). For up-to-date information and paper submission, please visit the conference submission page:

<https://easychair.org/conferences/?conf=cie45>

The proceedings of CIE 45 will be published on the web page of the conference and that of Computers & Industrial Engineering. They carry the identifier ISSN of 2164-8670 for the CD-ROM version and 2164-8689 for the Online version. A special issue of the international journal "COMPUTERS & INDUSTRIAL ENGINEERING" will be dedicated to the best papers presented at the conference after rigorous reviews.

For any practical issue please write to: cie45@easychair.org

