



International Conference on Computers & Industrial Engineering CIE45



Call for papers -- Special Session on Industrial Big-data Instrumentation and Infrastructure Integrity for CIE45

October 28-30, 2015 - Metz, France

Session Chairs

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

Prof. Yury KOLOKOLOV, RIHMI/World Data Center, Russia

Prof. Jay LEE, NSF I/U CRC IMS, UC, OH USA

Session description

This session considers recent advances, innovations and investigation results for dealing with the big-data challenges related to industrial and environment data collection, integration, digestion, presentation, analysis and processing for decision support, assets management and environment monitoring. The session will focus on data issues regarding industrial or environment data quality, data-driven modeling, uncertainties modeling and management, dynamics modeling, with application to dynamics forecasting, monitoring, diagnosis, prognostics, infrastructures health management and decision support. In addition, works addressing the rising issues related to the integrity, safety and security of data and instrumentation infrastructures are really expected. This special session invites valuable contributions related, but not limited to, the following topics:

- ▶ *Specification of big-data instrumentation infrastructures for industrial assets health monitoring*
- ▶ *Modeling of reliability, maintainability, availability and safety integrity of big-data infrastructures*
- ▶ *Computerized intelligent infrastructures of data collection, remote monitoring and forecasting*
- ▶ *Industrial environment dynamics forecasting and risk assessment from big-data integration*
- ▶ *Uncertainties management in the modeling and forecasting of systems dynamics*

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

