



International

*Innovation in Knowledge Based and Intelligent
Engineering Systems*



INVITED SESSION SUMMARY

Title of Session:

Sustainability metrics for complex industrial problems

Name, Title and Affiliation of Chairs:

Dr Luisa Huaccho Huatuco, University of Leeds, UK

Prof. Jairo Montoya Torres, Universidad de La Sabana, Colombia / University of Leeds, UK

Dr Angel Juan, Open University of Catalonia, Spain

Details of Session (including aim and scope):

Complex industrial problems continue to exist despite efforts to automate and simplify operations, therefore new creative solutions need to be proposed and developed in order to manage these problems, taking into account different requirements and often conflicting objectives of profit, environment and people.

This special session aims to present the latest research efforts in addressing complex industrial problems using sustainability metrics. Although there has been increased focus on sustainability, at the company and supply chain level in recent years, this has mainly been regarded as an add-on feature to identify and assess the environmental impact of industrial activities. We are interested in the multi-dimensional focus of sustainability in the sense of complementary environmental, social and economic aspects, as well as sustainability measurement and management, within a manufacturing context. This in turn will allow the assessment of the different proposed interventions to alleviate or eliminate existing complex problems.

The organisers are keen to receive submissions on the following topics (but not limited to):

- Green logistics
- Complexity and sustainability
- Supply chain problems
- Sustainability Performance metrics (just performance metrics seems too general/broad)
- Disruptions and resilience
- Sustainability case-studies

Deadline extended to 22nd December 2013 for this special session.

Main Contributing Researchers / Research Centres (tentative, if known at this stage):**Tentative**

Dr Ernesto Santibanez Gonzales, Universidad Federal de Oruro Preto, Brazil

Dr Ani Calinescu, University of Oxford, UK

Dr Elena Pérez-Bernabeu, Universitat Politècnica de València, Alcoy, Spain

Dr Javier Faulin, Public University of Navarre, Pamplona, Spain

Barry B. Barrios, IN3-Open University of Catalonia, Barcelona, Spain

Website URL of Call for Papers (if any):

<http://lubswww.leeds.ac.uk/disrupt/>

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