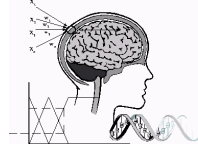




International

Innovation in Knowledge Based and Intelligent
Engineering Systems



INVITED SESSION SUMMARY

Title of Session:

The Transformative Approach applied to Engineering for a Sustainable World

Name, Title and Affiliation of Chair:

Chair: Prof. Alessandra Bonoli, University of Bologna

Co-Chair: Prof. Anna Maria Ferrari, University of Modena and Reggio

Details of Session (including aim and scope):

As it has been highlighted on the main conference scope declaration, sustainability is a topical issue that has to be considered by the contribution of three concepts as Environment, Economy, Society. In several topics, an integrated approach is becoming increasingly important involving whole considerations on environmental impacts, economic advantages and social follow up.

In that way, the transition engineering approach can give a robust contribution to develop research activities oriented to building a more sustainable world.

The vision of the Transition network is clearly declared (transitionnetwork.org): "When we use the term *Transition* we are talking about the changes we need to make to get to a low-carbon, socially-just, healthier and happier future, which is more enriching and more gentle on the earth than the way most of us live today.

In our vision of the future, people work together to find ways to live with a lot less reliance on fossil fuels and on over-exploitation of other planetary resources, much reduced carbon emissions, improved wellbeing for all and stronger local economies. The Transition movement is an ongoing social experiment, in which communities learn from each other and are part of a global and historic push towards a better future for ourselves, for future generations and for the planet."

The Transformative Approach applied to Engineering helps the application of the complex concept explained by the term sustainability.

Several themes of study and research to support design and management, in urban and industrial context, has to be developed using both consolidated and innovative methods for a Life Cycle Management. Many fields of exploration and application are interesting to understand and test the way to reach that goal as well as many are the applied sectors: automotive, buildings and construction, waste management and recycling, etc.

On this issue, contributions of any types are welcome including empirical research, literature reviews, conceptual, case studies and surveys.

Proposed Schedule: Submission deadline: End of November 2016

Authors' guidelines can be found in the conference website:

<http://sdm-17.kesinternational.org/>

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

Engineering Transition Research Group, DICAM - UNIBO, coordinator Prof. A. Bonoli

LCA Working Group, DISMI - UNIMORE, coordinator prof. A. M. Ferrari

Resources and Recycling Group, CiTG - Delft University of Technology, Prof. Francesco Di Maio

Quantitative Sustainability Assessment, DTU Management Engineering, Prof. Monia Niero

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