Call for Papers

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1. Conference history and EI/SCI indexing
The 5th International Conference on Advanced Design and Manufacturing (ADM2013) will take place in Valencia, Spain, 25th-28th September 2013. ADM2013 will follow the success of its previous 1st, 2nd, 3rd and 4th conferences held in 2006, 2009, 2010 and 2011. As prestigious conferences, the ADM2009, ADM2010 and ADM2011 conference papers were all published as volumes 419-420, 450 and 486 of the refereed journal ‘Key Engineering Materials’ (http://www.scientific.net/KEM.419-420, http://www.scientific.net/KEM.450 and http://www.scientific.net/KEM.486). The journal is indexed by SCOPUS, EI Compendex and other major abstract media; extended versions of selected ADM2010 and ADM2011 papers have been published in the International Journal of Design Engineering (Inderscience); the ADM2006 attracted about 600 abstracts, and about 190 high quality papers were finally selected for presentation at the conference, of which about 35% were chosen for post-conference publication in EI/SCI indexed and refereed international journals including International Journal of Production Research (Taylor & Francis), International Journal of Manufacturing Technology and Management (Inderscience), Lecture Notes of Computer Science (Springer), Chinese Journal of Mechanical Engineering (English edition) and International Journal of Design Engineering (Inderscience).

The forthcoming ADM2013 is anticipated to achieve a higher quality and attract more participants. All papers included in ADM2013 conference proceedings will be indexed in EI Compendex in the same way as those of ADM2009, ADM2010 and ADM2011, and the papers presented at the conference will be offered the opportunity for submission to refereed international journals (see Section 4 below for further details).

2. Conference Scope
The conference topics will be in the design and manufacturing engineering area, which will cover, but are not limited to:

- Product/industrial/engineering design
- Sustainable development and technologies, including lifecycle assessment, Eco-design, sustainable production and renewable energy
- CAD/CAM/CAE
- Concurrent engineering, agile manufacturing, rapid prototyping
- Material science and engineering materials
- Manufacturing technologies, production, control
- Mechanical transmissions
- Engineering management
- Web/Internet technologies, cloud computing, Wireless and WiFi, RFID and NFC
- Experimental and theoretical analyses, finite/boundary element methods, optimisation
- Soft computing, artificial intelligence, evolutionary computing, agent computing
- Computer simulation, multimedia, virtual reality
- Engineering education
- Other related areas
3. Special Sessions and Exhibitions

**Special Session 1: Sustainable Lighting.**
Organised by the 'Ecolights' project sponsored by the European Commission's CIP Eco-Innovation Programme
Topics will cover, but not limited to, the following:
- Lighting products and systems: design, manufacturing, maintenance, packaging, installation, testing, measurement (photometrics), energy saving, disposal, recycling, recycled materials, reuse and remanufacture of components, repair and update, etc.
- Methods and tools for sustainable lighting product design
- Environmental impact assessment and lifecycle analysis of lighting products/systems
- Light sources
- Retrofit lighting
- Electrical, electronic and mechanical components for lighting

**Special Session 2: Machine Condition Monitoring.**
Organised by the 'AgitatorCBM' project sponsored by the European Commission's FP7 Marie Curie International Incoming Fellowship Programme
Topics will cover, but not limited to, the following:
- Machine condition monitoring techniques, theories and applications
- Condition based maintenance
- Sensor technology, multi-sensor fusion,
- Acoustics and vibration measurement
- Wireless sensor and remote monitoring techniques
- Fault diagnosis of mechanical transmission systems and components including gears, bearings, etc
- Enabling technologies applied in machine condition monitoring such as artificial intelligence, smart technology, Internet technology, embedded systems, data acquisition and analysis, etc.

**Special Session 3: Gearing and Transmissions.**
Organised by the Technical Committee of Gearing and Transmissions, International Federation for the Promotion of Mechanism and Machine Science (IFToMM)
Topics will cover, but not limited to, the following:
- Gears and gearing systems;
- Mechanical transmission systems including belt drives, chain drives, and non-standard transmissions;
- Power transmissions;
- Machine elements including bearings, coupling, clutch, breaks, shaft and accessories, spline and keys, springs, etc.;
- Screws, fasteners, connections and joints;
- Their applications in a wide range such as those from creative industry to heavy engineering, from off shore engineering to space technology, from precision equipment to industrial machines, from food industry to transportation, and more.
- Science and technologies related to mechanical transmissions, including mechanics, materials, control, measurement, lubrication, tribology, sustainable design and production, renewable energy, nanotechnology, micro and macro systems, etc

(Proposals for more special sessions are welcome)

**Exhibition**
Exhibition stands will be available for companies subject to fees.

4. Abstracts and Conference Papers
Potential authors are invited to submit abstracts of about 200 words to adm@ntu.ac.uk. The authors of accepted abstracts are entitled to submit full papers, which will be peer-reviewed, and the corresponding authors will be asked to make required changes and submit the final version of the papers. Based on the quality of the final paper submitted, a decision will then be made whether the paper is accepted or not. The papers should not have been previously published or be in a review process for publication elsewhere. The full paper length will be of 4 pages of A4 size with the font of 12 points Times New Roman.

The conference proceedings will be published in the periodical "Key Engineering Materials" (available in full text on the web via www.scientific.net one of the leading and largest online databases in its field), with a separate book (with ISBN), and online edition for the conference participants. The periodical is indexed by SCOPUS, EI Compendex and all major abstract media (please visit http://www.ttp.net/1013-9826.html for further information). Papers will not be included in the Proceedings unless conference fees have been paid.
ADM2013 papers will be offered opportunities for post-conference publications in SCI/EI indexed and refereed international journals, subject to extensive revision and paper quality.

6. Conference Venue and city Valencia

Valencia is the capital of the autonomous community of Valencia and the third largest city in Spain after Madrid and Barcelona, with around 809,000 inhabitants in the administrative centre. Valencia is also Spain's third largest metropolitan area, with a population ranging from 1.7 to 2.3 million. The city has global city status. The Port of Valencia is the 5th busiest container port in Europe and the largest on the Mediterranean Sea, with a trade volume of 4.21 million TEU's. Valencia was founded as a Roman colony in 138 BC. The city is situated on the banks of the Turia, on the east coast of the Iberian Peninsula, fronting the Gulf of Valencia on the Mediterranean Sea. Its historic centre is one of the largest in Spain, with approximately 169 acres; this heritage of ancient monuments, views and cultural attractions makes Valencia one of the country's most popular tourist destinations. Major monuments include Valencia Cathedral, the Torres de Serranos, the Torres de Quart, the Llotja de la Seda (declared a World Heritage Site by UNESCO in 1996), and the Ciutat de les Arts i les Ciè ncies (City of Arts and Sciences), an entertainment-based cultural and architectural complex designed by Santiago Calatrava and Félix Candela. The Museu de Belles Arts de València houses a large collection of paintings from the 14th to the 18th centuries, including works by Velázquez, El Greco, and Goya, as well as an important series of engravings by Piranesi. The Institut Valencià d'Art Modern (Valencian Institute of Modern Art) houses both permanent collections and temporary exhibitions of contemporary art and photography. Valencia is integrated into an industrial area on the Costa del Azahar (Orange Blossom Coast). Valencia's main festival is the Falles. The traditional Spanish dish, paella, originated in Valencia. (information source: http://es.wikipedia.org/wiki/Valencia)

6. Important Dates
Please submit abstracts and papers to conference e-mailbox: adm@ntu.ac.uk
Deadline for abstracts (200 words): 15 January, 2013
Deadline for full papers: 15 March, 2013
Deadline for final papers: 25 May, 2013
Deadline for registration fees: 25 May, 2013
Conference: 25th - 28th September, 2013

7. Conference Fees
Registration fee of £460 (sterling pounds) per participant will be charged, which entitles the participant to have one paper to be published in the conference proceedings; for additional papers from the same authors, the publication fee of £160 per additional paper will be charged.

The registration fee will also cover conference banquet, lunches and refreshments, proceedings, city tour but not accommodation.
8. For any inquiry about the conference, please contact one of the following:
- Professor Daizhong Su
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Postal address:
  Maudslay Building
  Nottingham Trent University,
  Burton Street, Nottingham, NG1 4BU, UK

9. Conference organisers and supporters
The conference is organised by
Nottingham Trent University, UK
Universidad Cardenal Herrera-CEU, Spain
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IFTOMM Gearing and Transmissions Technical Committee