

# The International Workshop on Digital Design and Manufacturing Technologies -

## Embracing Industry 4.0 and Beyond

12-13 April 2016, Northumbria University, Newcastle NE1 8SW, UK

### Conference Chair

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Northumbria University

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Chinese Journal of  
Mechanical Engineering



## Call for Papers

### Workshop Theme: Embracing Industry 4.0 and Beyond

**AIMS:** The aims of the workshop are to provide a forum for scientists, engineers, scholars and students to exchange ideas and update technical knowledge, as well as to provide a platform where joint research programmes can be formulated for mutual benefit. The workshop welcomes participations and contributions from those involved in both theoretical research and practical applications of all aspects of digital design and manufacturing technologies for manufacturing innovation.

**SCOPE:** The scope of the workshop covers a broad spectrum of areas with multi-disciplinary interests in the fields of pervasive and secondary technologies for future manufacturing activities, such as additive manufacturing, sensor technology, big data analytics, Internet of things, robotics, cloud computing, and nanotechnology. The workshop welcomes the submission of papers in the nature of original research and technical review from following, but not limited to, areas:

- New manufacturing business models for embracing Industry 4.0
- Autonomous manufacturing and robots
- Crowdsourced manufacturing and product innovation
- Smart productions
- Mass customization and additive manufacturing
- Knowledge-based automation and big data
- Smart tooling, smart machines and smart manufacturing
- IoT and wireless manufacturing
- Experience-driven customer services and product supports
- Big system modelling, simulation and understanding crossing value chains
- Game and augmented reality technologies for manufacturing
- System integration
- Virtual machines and virtual manufacturing
- Cloud based production
- e-Design and e-Manufacturing

**SUBMISSIONS:** Contributions will be reviewed by at least two referees. The manuscripts should normally be within 25 pages of A4 paper, printed on one side only and double-spaced, and inclusive of figures and tables. Full electronic manuscripts (MS-Word, or PDF file) should be sent to the guest editors [sheng-feng.qin@northumbria.ac.uk](mailto:sheng-feng.qin@northumbria.ac.uk) or [kai.cheng@brunel.ac.uk](mailto:kai.cheng@brunel.ac.uk) by **March 13, 2016**.

The initial accepted papers will be presented at the workshop and the revised versions are invited to submit to the Chinese Journal of Mechanical Engineering (CJME) for an Special Issue scheduled in January 2017. Please prepare your manuscript in CJME format (see the [Instructions to Authors of CJME](#)).

### IMPORTANT DATES

Paper submission deadline----- 13 March 2016

Notification of acceptance----- 1 April 2016

