

A Symposium on

ADDITIVE MANUFACTURING AND RAPID PROTOTYPING

Organizer

Giorgio Olmi

Department of Industrial Engineering (DIN)
University of Bologna
Viale del Risorgimento 2, 40136 Bologna, Italy
Tel: +39 051 2093455
Email: giorgio.olmi@unibo.it

Affiliated with

IRF2018
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(<http://paginas.fe.up.pt/~irf/IRF2018/>)

This Symposium can be regarded as a good opportunity for researchers from academia and industry to share their achievements in the field of Additive Manufacturing (AM), involving both metallic and polymeric materials. In particular, experimental, analytical and/or numerical studies will be welcome. The main scope of the Symposium is to highlight the great potentials of the additive techniques, in order to produce complexly shaped components or to rapidly fabricate plastic prototypes with acceptable mechanical properties.

The main topics for this session include, but are not limited to:

1. Powder bed fusion technologies (DMLS, SLM, SLS) for metallic materials
2. Fused deposition modelling for polymeric materials
3. Stereolithography, inkjet and polyjet for photo-polymers
4. Experimental characterization and mechanics of materials. Anisotropy affecting the mechanical properties
5. Static and/or fatigue testing
6. Tribological properties and surface finishing of AM produced parts
7. Microstructure, internal and external defects of AM produced parts. Porosity
8. Heat, mechanical, chemical and surface treatments for AM produced components
9. Residual stresses in AM produced components: detection and assessment

Extended abstracts of **two full pages** should be written in the same format as the full papers for the USB-card (no limitation in length for these):

<i>Paper Size:</i>	A4, single column
<i>Margins:</i>	Top page 3,0 cm; Bottom 2,5 cm, Left & Right 2,5 cm
<i>Font and line spacing:</i>	Times New Roman; single space
<i>First 3 lines:</i>	Should be left blank, size 10, reserved for the editors
<i>Title:</i>	Begins at the 4 th line, capital letters, size 14, bold, left alignment
<i>Authors Names:</i>	Size 10, left alignment, two lines interval from title above
<i>Authors affiliation:</i>	Size 10, left alignment, two lines interval from text below
<i>Main Text:</i>	Size 12, full justification, 6 pt space after paragraph, no indentation
<i>Headings:</i>	Capital letters, size 12, bold, one line interval from text above
<i>Legends (Figs & Tables):</i>	Size 10, one line interval from text above and below
<i>References:</i>	References to cited literature should be identified in the text with author(s) name(s) and year of publication (ex: Mascarenhas, 1997). Full citations should be grouped at the end of the paper and in alphabetical order of first author's name. Always give inclusive page numbers for references to journal articles and a page range for books. Each reference must be cited in the text.

A sample abstract is available for download at:

http://paginas.fe.up.pt/~irf/IRF2018/abstract_sample.doc

which can also be used as template.

The ***Extended Abstracts*** are due by **15 JANUARY 2018**, and those accepted will appear in a book which will be made available to delegates of IRF2018 during the event. Full papers will also be compiled in a USB-card and improved versions of selected papers will be considered for publication in indexed International Journals on the conference main topics.

For additional information, please contact either of the following:

Professor Giorgio Olmi
Department of Industrial Engineering (DIN)
University of Bologna
Viale del Risorgimento 2, 40136 Bologna, Italy
Tel: +39 051 2093455
Email: giorgio.olmi@unibo.it

Professor J.F. Silva Gomes
Faculdade de Engenharia – Universidade do Porto
Rua Dr. Roberto Frias, 4200-465 Porto, Portugal
Tel: 351-91 725 89 50
Email: sg@fe.up.pt