

**A Symposium on**

# **ADVANCES IN TRIBOLOGICAL SYSTEMS AT VARIED LENGTH SCALES**

**Organizer**

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Affiliated with

## **IRF2020**

**7<sup>TH</sup> INTERNATIONAL CONFERENCE**

### **INTEGRITY - RELIABILITY - FAILURE**

**Funchal, Portugal**

**14-18 June, 2020**

**(<http://paginas.fe.up.pt/~irf/IRF2020/>)**

This important symposium is intended to bring together delegates from around the world to show case their recent efforts and discuss how to characterize, predict, and validate experimentally all topics relating to tribology. This symposium will provide a common platform to researchers from academia and industry to explore the new and uncaptured ideas and provide a path to the emerging technologies in the field of tribology.

It will cover a number of sessions in the form of oral presentations or posters that will facilitate sufficient time for a thorough technical presentation and follow-up discussions of the cutting edge issues in this important field.

Please join us to advance the knowledge and the understanding of the phenomena governing the reliability of tribological systems by employing the various analytical, computational and experimental techniques at varied length scales.

**Symposium topics include (but not limited to):**

- Friction and wear at varied length scales
- Functionalized and adaptive Surfaces
- Advances in DLC coatings and wear resistance
- Characterization of lubricants and lubrication
- Techniques in tribo-systems testing and monitoring
- Surface engineering at varied length scales
- Tribology in manufacturing
- Tribology in transportation
- Tribology and sustainability
- Contact mechanics in tribo-systems
- Sealing and Coating tribology
- Reliability engineering in tribology
- Case studies and case histories

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):

*Paper Size:* A4, single column  
*Margins:* Top page 3,0 cm; Bottom 2,5 cm, Left & Right 2,5 cm  
*Font and line spacing:* Times New Roman; single space  
*First 3 lines:* Should be left blank, size 10, reserved for the editors  
*Title:* Begins at the 4<sup>th</sup> line, capital letters, size 14, bold, left alignment  
*Authors Names:* Size 10, left alignment, two lines interval from title above  
*Authors affiliation:* Size 10, left alignment, two lines interval from text below  
*Main Text:* Size 12, full justification, 6 pt space after paragraph, no indentation  
*Headings:* Capital letters, size 12, bold, one line interval from text above  
*Legends (Figs & Tables):* Size 10, one line interval from text above and below  
*References:* 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/IRF2020/abstract\\_sample.docx](http://paginas.fe.up.pt/~irf/IRF2020/abstract_sample.docx)

which can also be used as template.

The *Extended Abstracts* are due by **15 DECEMBER 2019**, and those accepted will appear in a book which will be made available to delegates of IRF2020 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 one of the following:**

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