

A Symposium on

**MODELING OF FRACTURE AND
FRAGMENTATION OF SOLIDS UNDER
STATIC AND DYNAMIC LOADING:
DETERMINISTIC AND PROBABILISTIC
APPROACHES**

Promoted by

Alexander Gerasimov

and

Sergey Zelepugin

Research Institute of Applied Mathematics and Mechanics

Tomsk State University, Russia

Email: ger@mail.tomsknet.ru

Tomsk Scientific Centre

Siberian Branch of the Russian Academy of Sciences, Russia

Email: szel@yandex.ru

In Conjunction with

IRF2018

6TH INTERNATIONAL CONFERENCE

INTEGRITY - RELIABILITY - FAILURE

Lisbon, Portugal

22-26 July, 2018

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

This Symposium will present some new opportunities for scientists, engineers from academia and industry to share their scientific findings and novel technologies in mechanics of fracture under static and dynamic loading. This multidisciplinary session will cover many aspects of mechanics of fracture and will provide rapid high-quality reports for communications with scientists in different areas.

The main topics for this session are as follows:

1. Natural Heterogeneity of Real Materials Structure
2. Distribution of Material Physicomechanical Characteristics
3. Fragmentation
4. Explosive Destruction of the Open and Closed Shells

5. Crushing of Metal Rings
6. High-Speed Impact of the Laminated - Spaced Barrier
7. Numerical Simulation of Fracture: Probabilistic Approach
8. Numerical Simulation of Shock and Explosive Fracture
9. Fracture: Three-Dimensional Statement and Probabilistic Approach
10. Protection of Space Vehicles from High-Velocity Debris
11. Protection from High-Velocity Projectiles
12. Protection of Elements against Explosive and Impact Loading

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 Alexander V. Gerasimov
 Research Institute of Applied Mathematics and Mechanics
 Tomsk State University
 36, Lenin Ave., Tomsk, 634050, Russia
 Tel: +7 3822 52 95 69
 Email: ger@mail.tomsknet.ru

Professor Sergey A. Zelepugin
 Tomsk Scientific Centre, Siberian Branch of the Russian Academy of Sciences
 10/3, Akademicheskii Ave., Tomsk, 634055, Russia
 Tel: +7 3822 492 294
 Email: szel@yandex.ru