

## CALL FOR PAPERS

Prospective authors are invited to submit electronically previously unpublished papers relevant to the workshop topics.

Papers will be reviewed upon two page extended abstracts, to be included in the Workshop Proceedings. Authors of accepted extended abstracts will be encouraged to submit a full version (up to 6 pages) of the papers at the Workshop, which will be reviewed for inclusion in special Issues of "Nanotechnology Perceptions" and "Journal of Biological Physics and Chemistry".

For instructions on preparation of extended abstracts please consult the Workshop Web site:

<http://>

For further information, please contact the Conference Secretariat.

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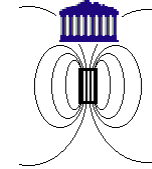
## TOPICS

The scope of the Workshop includes: Advances in Analysis, Characterization and Manufacturing of Advanced Materials (Magnetic, Superconducting, Multifunctional and Nanostructured Materials).

The topics related to new developments are:

- Computational electromagnetics
- Generation by renewable energy sources
- Magnetohydrodynamics
- Losses analysis
- Devices (magnetic circuits, transformers, electrical machines, micro-machines)
- Magnetic material processing
- Magnetic material characterization
- Perspectives of high -T<sub>c</sub> superconductors
- Modelling of superconductive properties
- Characterization techniques
- Processing of bulk superconductors
- Processing of thin and thick film superconductors
- Applications in energy (electricity/electronics), environment and transportation (levitation, electrical/ magnetic machines, flywheels, HTS/metal junctions, shielding, SQUIDS)
- Computational materials science
- Multifunctional materials for energy conversion
- Nanotechnology
- Nanostructured materials, nanocomposites
- Ultraprecision engineering (static/dynamic/ shock loading)
- Biomedical engineering
- Mathematics and it's Applications

# JAPMED' 11



**Eleventh Japanese-Mediterranean  
Workshop on Applied  
Electromagnetic Engineering  
for Magnetic, Superconducting,  
Multifunctional and Nanomaterials**

## Announcement and Call for Papers



**Batumi State University**  
**25-28 June, 2019**  
**Batumi, Georgia**

## PRESENTATION

The Eleventh Japanese-Mediterranean Workshop on Applied Electromagnetic Engineering for Magnetic, Superconducting, Multifunctional and Nanomaterials (JAPMED'10) is continuing and extending the successful previous events: two Japanese-Greek Joint Workshops held in Athens, Greece (1999) and Oita, Japan (2001), followed by seven Japanese-Mediterranean Joint Workshops held in Athens, Greece (2003), Cairo, Egypt (2005), Larnaca, Cyprus (2007), Bucharest, Romania (2009), Budapest, Hungary (2011), Athens, Greece (2013), Sofia, Bulgaria (2015) and Izmir, Turkey (2017), respectively.

The aim of this Conference is to create a link for the participants to share knowledge and experience and for the cross-fertilization of new ideas and developments in applied electromagnetics, design, analysis, new material (magnetic, superconducting, multifunctional, nanomaterials) utilization, static- to shock-processing from macro-, micro-, to nanoscale and optimization techniques, including applications related to advanced manufacturing, ultraprecision engineering, nanotechnology, biomedical engineering, transport, energy and environment. Topics related to practical applications, operation, maintenance are also highly encouraged.

The JAPMED'11 will be jointly organized by the: Japan Society of Applied Electromagnetics and Mechanics (JSAEM); Project Center for Nanotechnology and Advanced Engineering (PC-NAE), a joint initiative of the Greek National Center for Scientific Research "Demokritos" and the Russian Research Center "Kurchatov Institute"; National Technical University of Athens (NTUA), Greece; Texas A&M University (TAMU), USA; University of Nevada, Reno (UNR), USA; Izmir Institute of Technology (IZTECH), Turkey; Beijing Institute of Technology (BIT), P.R. China; Batumi State University (BSU) and Georgian Technical University (GTU).

## IMPORTANT DATES

**January 15, 2019:** Deadline for extended abstracts submission

**March 15, 2019:** Acceptance notification

**April 15, 2019:** Early registration due

**June 15, 2019:** Full paper electronic submission.

## LANGUAGE

English will be the official language of the Workshop and will be used for both extended abstracts and presentations.

## REGISTRATION

The registration fee for participants includes: Workshop Attendance, Conference Proceedings, Certificate of Attendance, Coffee breaks, Welcome Reception and Traditional Conference Dinner, City tour, as well as a last day trip.

The registration fee is: 350 € for participants registered before April 15, 300 € after April 15, 150€ for students, and 100€ for accompanying spouses. Georgian participants 100€.

## CONFERENCE VENUE

The conference will be held at Batumi State University, Batumi, Georgia

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