

10th International Congress on Advanced Electromagnetic Materials in Microwaves and Optics **Metamaterials 2016** Chania, Crete, Greece, 17-22 September 2016

The Tenth International Congress on Advanced Electromagnetic Materials in Microwaves and Optics – Metamaterials 2016, will comprise a **4-day Conference (19–22 September)**, and a **2-day Doctoral School (17–18 September)**. Organized by the METAMORPHOSE VI AISBL (www.metamorphose-vi.org) and hosted by the Foundation for Research and Technology - Hellas (FORTH), this Congress follows the success of Metamaterials 2007-2015 and continues the traditions of the highly successful series of International Conferences on Complex Media and Metamaterials (Bianisotropics) and Rome International Workshops on Metamaterials and Special Materials for Electromagnetic Applications and Telecommunications. The Congress will provide a unique topical forum to share the latest results of the metamaterials research in Europe and worldwide and bring together the engineering, physics, and material science communities working on artificial materials and their applications from microwaves to optical frequencies, as well as in acoustics, mechanics, and thermodynamics.

Paper Submission

Papers should be 2-3 pages long and contain an abstract, a brief conclusion, and a main body where technical content and novelty of the work are clearly presented. Papers should be submitted as camera-ready PDF files to the website:

<http://congress2016.metamorphose-vi.org>

Authors are requested to use the template provided on the Congress website when preparing their submission. Authors of accepted and presented papers will be given the option of publishing their work in IEEE Xplore subject to the manuscript compliance with the format and copyright requirements.

Committees

General Chairs

Filiberto Bilotti, Italy (*chair*)
 Andrea Alù, US (*co-chair*)

Technical Program Committee

Sergei Tretyakov, Finland (*chair*)

Local Chairs

Costas Soukoulis, Greece
 Maria Kafesaki, Greece

Topics

- Physics of complex electromagnetic materials
- Analytical and numerical modelling of metamaterials
- Homogenization of metamaterials and effective medium models
- Three-dimensional metamaterials
- Two-dimensional metamaterials (metasurfaces)
- Carbon nanotubes and graphene in metamaterials
- Nonlinear, tunable and reconfigurable metamaterials
- Active and absorption-free metamaterials
- Chiral and bianisotropic composites
- Metamaterials with extreme parameters
- Quantum metamaterials
- Superconducting metamaterials
- Nonreciprocal metamaterials
- Plasmonics
- Extraordinary transmission
- EBG structures, photonic crystals, and their applications
- Antenna and absorber applications of metamaterials
- RF and microwave metamaterials: design, properties, applications
- Millimeter wave/THz metamaterials and applications
- Optical metamaterials and their applications
- Acoustic and mechanical metamaterials
- Metamaterials for nanoelectronics and nanophotonics
- Metamaterials for control of heat flow and radiation
- Nanocircuits and nanoantennas
- Metamaterials for quantum electronics
- Metamaterials for sensing
- Biological and biomedical applications of metamaterials
- Integrated nanophotonics and optoelectronics
- Super-resolution and near-field imaging: effects and devices
- Transformational electromagnetics and optics
- Advances in cloaking and invisibility
- Novel metamaterial concepts
- Experimental techniques and characterization of metamaterials
- Micro- and nano-fabrication of metamaterials
- Metamaterials in education

Doctoral School on Metamaterials

A course of the European School on Metamaterials operated by the METAMORPHOSE VI will be held in conjunction with the Congress (17-18 September 2016). The theme of the course is still under definition and will be announced shortly on the website. For more information visit the website: <http://school.metamorphose-vi.org/>

Contact

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Submission deadline

6 March 2016