



**FIRST
ANNOUNCEMENT**

Metamaterials 2027

21st International Congress on
Artificial Materials for Novel Wave Phenomena

**SUBMISSION DEADLINE
14 March 2027**

Rome, Italy

13–18 September 2027

The Twenty-first International Congress on Artificial Materials for Novel Wave Phenomena – Metamaterials 2027, will comprise a 4-day Conference (13-16 September), and a 2-day Doctoral School (17-18 September). Co-organized by the METAMORPHOSE VI AISBL (<https://www.metamorphose-vi.org>) and Roma Tre University, this Congress follows the success of Metamaterials 2007-2026 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 metamaterials research. It will bring together the engineering, physics, applied mathematics and material science communities working on artificial materials and their applications in electromagnetism/optics/photonics, acoustics/mechanics, transport, and multi-physics.

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:

congress.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 meeting IEEE Xplore's scope and quality requirements.

Committees

General Chairs

Filiberto Bilotti
Mirko Barbuto
Alessio Monti

Technical Program Committee Chair

Vincenzo Galdi, Italy

Steering Committee Chair

Andrea Alù, USA

Doctoral School Coordinators

Stefano Vellucci
Giacomo Oliveri

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Topics

Physics of artificial materials for novel and extreme wave phenomena
Metamaterials modelling - analytical and computational approaches
Computational, AI-based, data-driven design of metamaterials
Fabrication and experimental characterization of meta-structures
Tunable, reconfigurable and programmable metamaterials
Nonlinear metamaterials and metasurfaces
Time-space modulated metamaterials
Nonreciprocal and topological metamaterials
Chiral and bianisotropic composites; Nonlocality and spatial dispersion
Active and non-Hermitian metamaterials; Exceptional-point physics
ENZ metamaterials; Extreme parameters and broken symmetries
RF, microwave and THz metamaterials and metasurfaces
Photonic crystals and electromagnetic-bandgap structures
Nanophotonics and nano-optics
Plasmonics and polaritonics; Strong light-matter effects; Hot electrons
2D and Van-der-Waals metasurfaces and metamaterials
Acoustic and mechanical metamaterials
Metamaterials in soft matter and robotics
Quantum and superconducting metamaterials
Multiphysics metamaterials
Homogenization and effective medium models
Transformational electromagnetics, elastodynamics, thermodynamics
Metamaterials for farfield and nearfield imaging; Super-resolution
Metamaterials for sensing and metrology
Metamaterials for computing, information and AI
Metamaterials for quantum optics and nano-electronics
Metamaterials for energy harvesting and conversion
Thermal metamaterials and metasurfaces
Metamaterials for communication technologies (5G and beyond)
Antenna and absorber applications of metamaterials
Advances in cloaking and scattering engineering
Biological and biomedical applications
Space, naval, aeronautic and automotive applications
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 2027). The theme of this edition is *Reconfigurable Electromagnetics: Space-Time Coding and Programmable Metasurfaces from RF to Optics*.