



EDUCATION INNOVATION
AND DEVELOPMENT GROUP

1st INTERNATIONAL SCIENTIFIC CONFERENCE



Heraklion, Crete

FRACTAL EDUCATION

Recursive Learning Architectures,
Ethical Issues and
Psychological Resilience of Educators
in the Era of Artificial Intelligence



24 – 26 November 2026
Online

27 – 29 November 2026
In Person



Atrion Hotel and
Heraklion Chamber
of Commerce & Industry

www.metanus.gr



CONFERENCE AT A GLANCE

Main Theme:

Fractal Education:

*Recursive Learning Architectures, Ethical Issues and
Psychological Resilience of Educators in the Era of Artificial Intelligence.*

 **Location:** Heraklion, Crete (Atrion Hotel & Heraklion Chamber of Commerce)

 **Languages:** Abstracts and full papers: English or Greek
Presentations: English or Greek

 **Submission Guidelines:** Final full-paper manuscripts must be between 3,000 and 8,000 words in length.

- There is a numerical limit on the papers participating in the conference, both for online and in-person presentations. Approval priority will be given based on the acceptance of the abstract.
- All accepted papers included in the conference proceedings will be published with an official ISSN and assigned a unique DOI.
- **Fees & Access:** 100€ per accepted paper (regardless of the number of authors).
General Attendees / Audience: Open access, completely free of charge.

IMPORTANT DATES

- **Opening of abstract submission: July 15, 2026**
- **Abstract submission deadline: September 21, 2026**
- **Abstract acceptance notification: by September 28, 2026**
- **Deadline for contest submissions: October 19, 2026**
- **Final Paper Submission Deadline: November 9, 2026**

Conference Dates

- **Online presentations: November 24–26, 2026**
- **In-person presentations: November 27–29, 2026**

Fractal Education

24-29 November 2026

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The Education, Innovation and Development Group METANUS is pleased to announce the organization of the 1st International Scientific Conference, which will take place in Heraklion, Crete, from November 24 to 29, 2026. The central theme of the Conference is:

FRACTAL EDUCATION

Recursive Learning Architectures, Ethical Issues, and the Psychological Resilience of Educators in the Era of Artificial Intelligence

The inaugural METANUS conference serves as a pivotal academic and educational initiative, designed to cultivate a dynamic forum for scholarly dialogue, the exchange of empirical insights, and the generation of novel research. It seeks to address contemporary challenges at the intersection of education, artificial intelligence, pedagogical theory, and educator resilience.

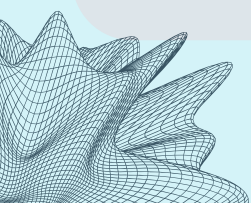
Contemporary education is experiencing a period of profound contextual transformation. While the core tenets of pedagogy remain enduring, the complexities of the modern era require their dynamic application in a landscape defined by rapid technological advancement and continuous professional development. The accelerating evolution of artificial intelligence, the pervasive integration of digital tools, and shifts in learning modalities, compounded by the escalating psychosocial demands of the educational environment, necessitate the strategic alignment of foundational pedagogical theory with contemporary digital and societal realities.

Within this paradigm, Fractal Education is advanced as a dynamic theoretical framework that conceptualizes learning not as a linear or compartmentalized progression, but as a complex, iterative, and multidimensional phenomenon. The Fractal educational model derives its foundational principles from fractal geometry, rooted in Chaos theory, wherein an infinite, self-similar construct is generated from an initial form via the continuous application of an iteration rule. To facilitate the structural convergence of formal and non-formal education, this model is anchored by four primary axes: student-centered teaching, concept-based curriculum design, heutagogy (self-determined learning), and systemic openness.

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Analogous to the iteration of micro-structures into macro-scales within fractal patterns, individual educational experiences, interpersonal dynamics, and localized pedagogical practices collectively aggregate to construct expansive learning architectures. The principle of self-similarity ensures that the structural framework of learning is maintained across all operational scales. Concurrently, iterative learning facilitates the cyclical re-examination of concepts at escalating levels of depth and complexity, thereby bolstering cognitive resilience and mitigating extraneous cognitive load. Consequently, this methodological framework catalyzes a crucial transition from the rigid assimilation of predetermined knowledge toward the cultivation of personalized dialogues with disparate forms of information, ultimately fostering a comprehensive, interdisciplinary educational perspective.

Artificial intelligence functions as a transformative catalyst that fundamentally redefines the pedagogical role of the educator, the epistemology of knowledge, evaluation methodologies, the daily educational milieu, and the relational dynamics uniting students, educators, and society. Fundamentally, numerous artificial intelligence technologies are predicated on fractal principles that mirror the underlying logic of natural systems. This structural alignment is evident across various computational architectures, ranging from neural networks that optimize learning via recursive patterns to generative models explicitly designed to simulate self-similar structures.

Contemporary educational paradigms, instructional methodologies, and the ongoing professional advancement of educators are now compelled to critically examine their intersection with technological innovation, ethical imperatives, human ingenuity, psychological resilience, and social accountability. The integration of Fractal Education into the categorical apparatus of modern socio-humanitarian knowledge facilitates the conceptualization of the individual as a multidimensional phenomenon. Consequently, this theoretical alignment promotes holistic development and personal self-actualization, effectively equipping both students and educators to navigate the profound complexities of the modern era.



Core Thematic Axes

The 1st International Scientific Conference of METANUS draws its inspiration from four interconnected thematic axes:

- **Fractal Education and Recursive Learning Architectures:** Pedagogical practice is conceptualized as a complex system of relationships, iterations, feedback loops, and transformations. Learning does not progress linearly; rather, it evolves through continuous cycles of revisiting, reflection, adaptation, and the formation of novel connections. Emphasis is placed on the learning architectures that emerge within the classroom, the school at large, communities of practice, and digital environments.
- **Artificial Intelligence, Ethics, and Education:** The integration of artificial intelligence into educational contexts presents substantial opportunities while simultaneously raising critical ethical dilemmas. Issues such as transparency, data protection, algorithmic bias, academic integrity, the authenticity of student work, and equitable access to digital tools represent domains requiring systematic discourse and profound pedagogical responsibility.
- **Psychological Resilience and the Professional Identity of Educators:** Educators are increasingly compelled to navigate an environment characterized by escalating demands, perpetual change, and complex societal challenges. Psychological resilience, professional empowerment, stress management, a collaborative culture, and comprehensive support for school communities emerge as paramount factors ensuring the quality and sustainability of educational practice.
- **Innovation, Creativity, and the Human Dimension of Learning:** In an era where digital instruments and artificial intelligence profoundly influence knowledge production and accessibility, the human dimension of learning assumes unprecedented significance. Creativity, critical thinking, empathy, collaboration, and pedagogical imagination constitute the fundamental prerequisites for cultivating a democratic, inclusive educational environment that is receptive to the future.



The principal objective of the Conference is to advance contemporary scientific, pedagogical, and applied approaches that address the critical intersection of education, artificial intelligence, ethics, and psychological resilience.

More specifically, the Conference endeavors to:

- Contribute to the scholarly discourse surrounding Fractal Education and novel learning architectures.
- Elucidate the pedagogical, ethical, and societal dimensions of artificial intelligence.
- Deepen critical reflection regarding the psychological resilience and professional well-being of educators.
- Showcase innovative instructional practices, empirical research findings, and applied methodologies.
- Cultivate a collaborative network comprising researchers, educators, educational administrators, and innovation stakeholders.
- Champion an educational paradigm that is profoundly human-centric, technologically literate, ethically responsible, and socially inclusive.

Conference Thematic Areas

Building upon its central theme, the Conference directs its focus toward the following thematic areas:

- A. Fractal Education and Learning Theories
- B. Artificial Intelligence and Education
- C. Ethics, Professional Conduct, and Digital Responsibility
- D. Psychological Resilience
- E. Innovative Teaching Practices and Educational Scenarios
- F. Educational Leadership, Policies, and Innovation
- G. European and Innovative Educational Programs
- H. Inclusive Policies and Equitable Access

THE CONFERENCE WELCOMES THE PARTICIPATION OF:

- Researchers, scientists, and scholars
- Educators across all levels of public and private education
- Educational administrators
- Faculty members and academic staff of Higher Education Institutions
- Doctoral candidates, PhD holders, and postdoctoral researchers
- Undergraduate and postgraduate students
- Adult educators
- Executives from organizations focused on education, innovation, and digital transformation
- Professionals active in the fields of education, technology, mental health, administration, and social intervention
- Any interested individual wishing to contribute to the scholarly and pedagogical discourse surrounding the central theme of the Conference

FORMAT OF PRESENTATIONS:

At the Conference, presentations may be delivered in one of three modalities:

- In-person presentations
- Online presentations
- Recorded presentations

The full texts of all peer-reviewed and accepted papers will be published within the Conference Proceedings, irrespective of their chosen presentation modality. The Conference Proceedings will be published with an ISSN and each published paper will be assigned a unique DOI. Detailed guidelines regarding the structural and formatting requirements for presentations and academic papers will be published on the official website: www.metanus.gr.



Prospective participants intending to contribute to the Conference as presenters, whether through an online presentation, an in-person presentation or a poster session, are required to submit an abstract of their proposed work, up to 300 words. The opening of abstract submission is scheduled for July 15, 2026, and the submission period will officially conclude on September 21, 2026. All submissions must be completed utilizing the dedicated online form, which will be accessible on the official website: www.metanus.gr.

The registration fee for presenting at the Conference is set at 100 euros per accepted paper, regardless of the number of contributing authors. Attendance at the conference sessions is entirely free of charge for all interested individuals.

COMPETITION AND PAPER AWARDS

METANUS will award papers within each thematic axis of the Conference following a blind review process. Awards will be presented in the following categories:

- A. Best Scientific Paper
- B. Best Teaching Proposal

The outcomes of the Competition will be determined by the Scientific Committee, predicated upon the aggregate results of the anonymous peer review of the final manuscript submissions. The full texts of the papers are rigorously evaluated based on their qualitative merits across the following criteria: a) originality, b) methodology, c) structure, d) content, and e) scholarly documentation.

Authors who wish their paper to participate in the competition process should submit the full text by October 19, 2026. The full text submission deadline for the rest of the papers is November 9, 2026. The presentation of awards and distinctions will take place during the closing ceremony of the Conference on November 29, 2026.

Complete guidelines for the preparation of full papers will be available on our official website: www.metanus.gr

