

HMS- Second Greek Mathematical Conference –
SCGM 2022

Session: Mathematics Education

Monday July 4th, 15:00'- 18:30'

Ceremony Hall, Administration Building, National Technical University of Athens

15.00'-15.10'

Mathematics education and Mathematical communities

- Fragkiskos Kalavasis (University of the Aegean), coordinator, Introduction

15.15'-16.45'

The impact of scientific journals in mathematics education communities:
(fragile) bridgings of (seemingly) incongruent realities

- Sonia Kafoussi (University of the Aegean): *HMS-iJME: reflections upon establishing an international mathematics education journal in Greece.*
- Marianna Tzekaki (Aristotle University of Thessaloniki, Greece) & Charoula Stathopoulou (University of Thessaly, Greece): *Research in mathematics education: A journal for the promotion of mathematics education research in Greece*
- Dionysios Lappas (National and Kapodistrian University of Athens, Greece): *Hellenic Mathematical Review: Educational and Didactical challenges.*
- Manolis Kritikos (Athens University of Economics and Business): *The scientific journal ASTROLAVOS in the educational and scientific community: history, impact and perspectives.*
- Andreas Moutsios-Rentzos (National and Kapodistrian University of Athens), chair and discussant: *Euclides γ' : a communicational bridge of teaching, learning and research communities in an emerging hybrid lifeworld.*

17.00' - 18.30'

Critical Values and Thinking in Mathematics Education

- Penelope Kalogeropoulou (Monash University, Australia): *Values in Mathematics Education through an intervention program lens.*
- Stephanos Keisoglou (Mathematics Educator): *Critical thinking meets mathematical competitions.*
- Stami Tsikopoulou (Mathematics Educator): *Mathematical Problems and Human Values. Thoughts on how Euclid A and Little Euclid address students.*
- Zoi Dipla (Educator): *Playing and making common spaces for learning mathematics.*
- Anna Chronaki (University of Thessaly, Greece & University of Malmo, Sweden), chair and discussant: *Critical issues concerning values, competences and mathematical thinking for the citizen subject of our precarious times.*

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Session: Mathematics Education

- Introduction

The session on **Mathematics Education** will focus on two key issues related to the current efforts of mathematicians and mathematics teachers to improve and maintain the continuity of mathematics education in times of increased and multiple crises disrupting education systems globally and locally, due to the economy, pandemics, climate change, wars and flows of refugees. On the one hand, the question of the impact of the communication of the variety of research results published through journals or conference proceedings on teaching practices and, on the other hand, the question of the implementation evidence in the school setting of the socio-cultural values that underpin the complex process of mathematical activity.

- Fragkiskos Kalavasis (University of the Aegean), coordinator

- The first panel under the theme “**The impact of scientific journals in mathematics education communities: (fragile) bridgings of (seemingly) incongruent realities**”

will include presentations of editors of mathematics education scientific journals in Greece. The discussion will focus on the significance and the constraints of attempting to integrate research findings into teaching practices to facilitate learning. Furthermore, the focus will be also on the development of journals about educational research or about mathematical culture and, in particular, on the difficulties of disseminating this corpus of knowledge to educational communities, to policy makers, and to mathematics education “influencers”.

Speakers

- Sonia Kafoussi (University of the Aegean): *HMS-iJME: reflections upon establishing an international mathematics education journal in Greece.*
- Marianna Tzekaki (Aristotle University of Thessaloniki, Greece) & Charoula Stathopoulou (University of Thessaly, Greece): *Research in mathematics education: A journal for the promotion of mathematics education research in Greece*
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- Andreas Moutsios-Rentzos (National and Kapodistrian University of Athens), chair and discussant: *Euclides γ': a communicational bridge of teaching, learning and research communities in an emerging hybrid lifeworld.*

- The **second panel** under the theme “**Critical Values and Thinking in Mathematics Education**”

will comprise presentations by researchers and experienced educators that will focus on the emergence of critical values and critical thinking in the teaching and learning of mathematics, as they permeate math classrooms, school communities, as well as the thematic contexts of magazines and student competitions consisting the high culture of doing mathematics in the society.

Speakers

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- Stami Tsikopoulou (Mathematics Educator): *Mathematical Problems and Human Values. Thoughts on how Euclid A and Little Euclid address students.*
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Organizers

- Fragkiskos Kalavasis (University of the Aegean)
- Sonia Kafoussi (University of the Aegean)
- Anna Chronaki (University of Thessaly & University of Malmo)
- Despina Desli (Aristotle University of Thessaloniki)
- Giorgos Psycharis (National and Kapodistrian University of Athens)
- Konstantinos Tatsis (University of Ioannina)
- Andreas Moutsios-Rentzos (National and Kapodistrian University of Athens)