



Doctoral Students' Conference: Tradition, Development & Innovation in Didactics - Early Career Researchers Conference (TDID - ERC)

Organized **online** between **15-16 December 2022** by

"Didactics: Tradition, Development & Innovation" Doctoral School at Babeş-Bolyai University
&
Linz School of Education at Johannes Kepler University.

AIM OF THE CONFERENCE

The conference aims to bring together PhD students from Educational Sciences, especially those who are working in Didactics of different school disciplines. The conference gives the opportunity to participants for present their wok and for meeting and networking other PhD students who are working on the same research issues. Participants also can meet senior researchers who are giving keynote presentations or co-chair sessions. PhD students also have the opportunity to chair sessions.

REGISTRATION

PhD students can present their work in short, 10 minutes long presentations. Beside new research results you can present an already published research or research in progress. There are three threads of the conference, English, Romanian, and Hungarian.

For registration, please, fill in the form: <https://docs.google.com/forms/d/e/1FAIpQLSc8zcEKcNO4XmkJACXyYs882WCcPTsesSlzllmLzcdEKiwapg/viewform>

Deadline: 6 December 2022 for presenters, 11 December 2022 for participants without presentation.

INVITED SPEAKERS

Branko Andjic, is a postdoc researcher at Johannes Kepler

Matthias Brandl is a Professor for Didactics of Mathematics at

Csaba Csikos (1972) completed both his MSc in Mathematics



University, Austria. He received his Ph.D. in 2020

in the field of STEAM education for visual impairment students. During his doctoral research, he stayed for professional and scientific training at five European universities in Austria, England, Slovenia, Montenegro, and Serbia. He is the author of a textbook in Biology for pre-university level education, as well as a manual for teachers. He is the author of 31 scientific papers in international peer-review journals. So far, he has been involved in 7 international and 5 national projects in the field of education.



the University of Passau, Germany, since 2011. His central research areas are

interconnectedness in mathematics and mathematics education, mathematical giftedness and creativity, technology and digital media in mathematics education, narrative didactics, and history of mathematics.



and Geography and MEd in Educational Assessment in 1996 at the

University of Szeged. He obtained PhD in Education in 2001 there as well. From 1999 until 2016 he worked in different academic positions at the Institution of Education in Szeged. From 2017 until 2021 he served as Vice-Dean at the Faculty of Primary and Pre-School Education at ELTE Eötvös Loránd University, and became full professor of Education in 2019. From 2021 he is head of the Department of Educational Evaluation and Planning at the University of Szeged. His major research interests are: strategic components of thinking; metacognitive aspects of mathematical thinking (with a focus on word problem solving). He has been member of European Association for Research on Learning and Instruction (EARLI) and International Group for the Psychology of Mathematics Education (PME).



Irina Horga is a researcher at the National Center for Policy and

Evaluation in Education - Education Research Unit (previously the Institute of Educational Sciences), since 1996. Her research areas include:



Mirela Vinerean is a Senior lecturer in Mathematics at

Karlstad University, Sweden, since 2011 and merited university teacher since 2016. Her research interest is from the beginning in applied mathematics and in the last years in mathematics

evaluation of the educational policies, curriculum, education of disadvantaged groups (rural areas, Roma population, children with disabilities, students at risk of early school leaving), development of the national system of indicators in education.

education with a focus on the use of digital technology for mathematics teaching.

PROGRAM DRAFT

The conference is organized online. Registered presenters and participants will receive an email with further information about the access to the platform used for the conference.

15 December 2022, Thursday (UTC+2 – Cluj-Napoca time)

16:00 - 16:05 – Opening of the Romanian sessions

16:03 - 16:35 - Keynote 1 – **Irina Horga** (Institute of Educational Sciences, Romania): [Educational policies based on research data. The role of educational research from policies to school practices the role of research from policies to practices](#)

16:40 - 17:25 – Short presentations session 1

16:40 - 16:55 - **Irina Roxana Avădănei (Acatrinei)** (Babes-Bolyai University, Romania): Romanian teachers' initial and professional training in multigrade teaching

16:55 - 17:10 - **Angela Pașca-Tușa** (Babes-Bolyai University, Romania): The contribution of project-based learning to the development of deep learning knowledge and behaviors for students in elementary school

17:10 - 17:25 - **Nicoleta Alina Petcu-Nicola** (Babes-Bolyai University, Romania): Qualitative aspects in the application of the moral model through active methods in kindergarten

17:25 - 17:35 - Break

17:35 - 17:40 – Short presentations session 2

17:35 - 17:50 - **Cristina Florina Pop** (Babes-Bolyai University, Romania): Ways of applying the integrated STREAM approach in primary education. The opinions of future teachers for primary education

17:50 - 18:05 – **Ioana- Aurelia Sabou (Baboș)** (Babes-Bolyai University, Romania): Teachers' opinion regarding the integration of experimental activities in the instructional-educational process in the primary cycle

18:05 – 18:20 - **Cosmina-Florina Șoldea** (Babes-Bolyai University, Romania): Teachers' views on reflective practice and the use of portfolios in teaching

18:20 - 18:40 - Discussion

16:00 - 16:05 – Opening of the Hungarian sessions

16:05 - 16:35 - Keynote 2 - **Csaba Csikos** (University of Szeged, Hungary): [How can eye-tracking research enrich mathematics education?](#)

16:40 - 17:25 – Short presentations session 3

16:40 - 16:55 - **Tünde-Hajnalka Hari** (Babes-Bolyai University, Romania): The effect of gamification on students' learning motivation in geography education

16:55 - 17:10 - **Zsófia Kocsis** (University of Debrecen): The Role of Higher Education in Preparing Students for the Labor Market in the light of a qualitative research

17:10 - 17:25 - **Beáta Papp** (Pécsi Tudományegyetem): Hungarian-Italian bilingual education: examination of the results of the advanced Italian final exam - Szent László High School of Budapest

17:25 - 17:35 - Break

17:35 - 17:40 – Short presentations session 4

17:35 - 17:50 - **Éva Katalin Bálint-Svella** (Babes-Bolyai University, Romania): Development and preliminary testing of the Algopaint unplugged computational thinking assesment for preschool education

17:50 - 18:05 - **Zsófia Kocsis** and **Anett Hrabézy** (University of Debrecen): The relationship between higher education pedagogical challenges and the well-being of university employees in light of qualitative research

18:05 – 18:20 - **Ana Juhász** (Babes-Bolyai University, Romania): Use of the Gopo method in Romanian lessons held in Hungarian elementary classes

18:20 - 18:40 - Discussion

16 December 2022, Friday (UTC+1 – Linz time)

9:00 - 9:05 – Opening of the English sessions

9:05 - 9:35 – Keynote 3 - **Mirela Vinerean-Bernhoff** (Karlstad University, Sweden) and **Matthias Brandl** (Passau University, Germany): [Research in Mathematics Education: Digital Interactive Mathematical Maps - An example for a combination of design-based and qualitative-empirical methods within an international scientific cooperation](#)

9:35 – 10:20 Parallel sessions

	Short presentations session 5	Short presentations session 6	Short presentations session 7
9:35 – 9:50	Moshe Facler (Babes-Bolyai University, Romania): The personal learner profile, as the key component for shaping a personalized learning journey, in a learning management system in the digital era	Zaira Ortiz-Laso (Universidad de Cantabria, Spain): A STEAM professional development program for training Spanish high school teachers	Edina-Timea Opris (Babes-Bolyai University, Romania): Impact of gamified problem-sheets in Seppo on self-regulation skills
9:50 – 10:05	Brigitta Békési (Johannes Kepler University, Austria): iPad, youPad, wePad: Collaborative creative tasks with iPads	Suzan Khatib (Babes-Bolyai University, Romania): Students in the elementary stage struggle to solve mathematical word problems from the perspective of their teachers	María Sanz Ruiz (Universidad de Cantabria, Spain): Solution strategies of pre-service teachers when dealing with a division-related task
10:05 – 10:20	Ángel Ríos San Nicolás (Universidad de Cantabria, Spain): Designing and Implementing Word Problem in STACK: a Study with Potential Secondary Education Mathematics Teachers	Fernanda Martins da Silva (São Paulo State University, Brazil): Dialogue in Video Production: a possible approach to the mathematics classroom	Eva Schmidthaler (Johannes Kepler University, Austria): The Implementation of the Educational Application <colette/> into STEM Education: Introduction of the Task Families Draw-o-Bot and Building Cubes

10:20 - 10:30 Break

10:30 - 11:00 - Keynote 4 - **Branko Andić** (Johannes Kepler University, Austria): [Research in STEAM inclusive education: Examples of examining the possibility of applying digital technologies in inclusive education](#)

11:00 - 11:45 Parallel sessions

	Short presentations session 8	Short presentations session 9	Short presentations session 10
11:00 – 11:15	Mintzu Jeong (Johannes Kepler University, Austria): Aesthetic approach for a mathematical formula: in case of Surface area of a Sphere	Einav London (Babes-Bolyai University, Romania): Changing students' attitudes toward mathematics through creative STEAM projects designed and executed by them (SMART PROGRAM).	Roxana-Madalina Cristea (Babes-Bolyai University, Romania): Perceived Well-being of In-Service School Teachers
11:15 – 11:30	Carla M.A. Pinto (Polytechnic Institute of Porto, Portugal): Escaping Math Problems with MATH-DIGGER	Laura Frentescu Tordai (Alexandru Ioan Cuza University, Romania): Towards STEAM teaching practices through higher education PjBL programs with focus on technology, transdisciplinarity and mathematics	Anett Rusznák (University of Debrecen, Hungary): Examining the characteristics of parental engagement
11:30 – 11:45	Musa Saimon (Johannes Kepler University, Austria): Students' Social Media Posts as Teaching Resources in Integrated mathematics, language, Arts and Technology	Fadhlan Muchlas Abrori (Johannes Kepler University, Austria): Design Principles of Educational Comics Design with Socioscientific Issues Based on the Experts and Teachers Opinion	Abdallah Asley (Babes-Bolyai University, Romania): The effect of the intervention with teaching applications of mathematics on students' achievement, and attitudes towards mathematics
11:45 – 12:00			Rusmir Hasic (Johannes Kepler University, Austria): Connecting culture to geometry - problem based learning across subjects

12:00 - 12:20 – Discussion

ABSTRACTS

[English section](#), [Hungarian section](#), [Romanian section](#)

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