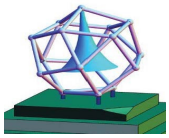
Sixth Central- and Eastern European Conference on
Computer Algebra- and Dynamic Geometry Systems
in Mathematics Education
7-10 September, 2016 Targu Mures, Romania



Schedule

Wednesday, 7 September 2016

8:30-9:00 Registration

9:00-9:30 Welcome

9:30-10:30 **Plenary I**:

Christian Bokhove: *Using technology for maths teaching and learning: instructional design, digital books and automated feedback*

10:30-11:00 *Coffee Break*

11:00-12:30 **Parallel Session I**

Room 230	**Room 231**
The impact of digital tools on students' learning of geometry, working group **Chair: Zsolt Lavicza**	**eduTPS working group** **Chair: Zlatan Magajna**
39. Ruti Segal, Avi Sigler and Moshe Stupel: *Problem Posing and Problem Solving of Geomatrical Configurations by Integrating Dynamic Geometry Software*	1.Vanda Santos and Pedro Quaresma: *Adaptive Strategies in the Web Geometry Laboratory*
40. Victor Oxman, Avi Sigler and Moshe Stupel: *"What if not" investigation method with the aid of Geogebra of a geometric configuration of quadrilaterals that through a dynamic process aspire to be square*	2. Zoltán Kovács and Csilla Sólyom-Gecse: *GeoGebra Tools with Proof Capabilities*
41. Avi Sigler, Victor Oxman and Ruti Segal: *The development of interesting connections between the radiuses of circles that are inscribed in or by triangles, and the discovery of unique features, with algebraic manipulations and dynamic exploration.*	28. Jiri Blazek and Pavel Pech: *Computer-aided investigation of sets of points in geometry*

12:30-14:00 *Lunch*

14:00-15:30 Parallel **Session II**

The impact of digital tools on students' learning of geometry, working group **Chair: Anatoli Kouropatov** 30. Valentyna Pikalova: *Teaching and Learning Math Behind Computer Science with the Help of GeoGebra and Python*	**eduTPS working group** **Chair: Pedro Quaresma** 7. Walther Neuper: *Reasoning by CAS is a dead end!*
52. Kristóf Fenyvesi, Zsolt Lavicza, Diego Lieban, Imre Nyögéri, Ho-gul Park & Taeyoung Choi: *STEAM Workshops for Collaborative Problem Solving Based on Connecting Hands-on 4dframe Activities with the Implementation of Geogebra*	15. Miguel A. Abanades, Francisco Botana, Zoltan Kovacs, Tomas Recio and Csilla Solyom-Gecse: *Automatic Discovery in GeoGebra: First Steps*
46. Partová Edita: *Diagnostics and the development of geometric knowledge through a variety of constructing tools*	20. Walther Neuper: *Engineering mathematics -- intuitive and formal*

15:30-16:00 *Coffee Break*

Poster: 11. Mohamed El-Demerdash, Nataly Essonnier, Jana Trgalova and Christian Mercat: *Digital Resources to Enhance Creative Mathematical Thinking in a Biomathematics Context*

16:00-17:30 **Parallel Session III**

The impact of digital tools on students' learning of geometry, working group **Chair: Valentyna Pikalova** 43. Lilla Korenova: *GeoGebra in elementary education*	**eduTPS working group** **Chair: Walther Neuper** 32. Zlatan Magajna: *Technology as a support for generating and presenting proofs in geometry*
12. Peter Körtesi: *Using GeoGebra to study the Famous Curves of the MacTutor History of Mathematics archive*	44. Pedro Quaresma: *Intelligent Geometry*
8. Anatoli Kouropatov, Regina Ovodenko and Sara Hershkovitz: *The impact of digital tools on students' learning of geometry*	Summary of the group's work

19:00-22:00 *Welcome dinner*

Thursday, 8 September 2016

9:00-10:30 **Parallel Session IV**

Using Sets of Mathematical Tools with Copy and Paste, working group	**Modeling and Experimental Approach in Math Classrooms, working group**
24. Matija Lokar and Paul Libbrecht: *Obstacles in combining the use of various tools in solving mathematical problems – why is Copy/Paste often useless*	**Chair: János Karsai** 10. Mohamed El-Demerdash, Pedro Lealdino and Christian Mercat: *The Effectiveness of Kinesthetic Approach in Developing Mathematical Function Graphs Recognition and Understanding at University Level*
25. Paul Libbrecht and Matija Lokar: *Expectations of the Copy and Paste Action for Formulæ*	22. János Karsai, Zsolt Vizi, Eszter Szénási and Lőrinc Pósfai: *Modeling approach in teaching math students*
26. Masataka Kaneko and Setsuo Takato: *Collaborative use of KeTCindy with CAS*	27. Přemysl Rosa and Vladimíra Petrášková: *Potential of Maple as tool for improving financial education of future teachers*

10:30-11:00 *Coffee Break*

11:00-12:00 **Plenary II:**

Noah Dana-Picard: *The usage of technology to revive classical topics in mathematics*

12:00-13:30 *Lunch*

13:30-15:00 **Parallel Session V**

Chair: Matija Lokar	**Modeling and Experimental Approach in Math Classrooms working group** **Chair: János Karsai**
18. Eleonóra Stettner: *Geomatech Competitions*	29. Štefan Berežný, Kristína Budajová, Eva Komová and Henrich Glaser-Opitz: *The MATH and the Vernier System at Faculty of Aeronautics*
38. Norbert Bogya, Lajos Szilassi and Zoltán Kovács: *Euclid, Bolyai and the exemplification in teaching of geometry*	34. Ildikó Perjesi-Hámori and Csaba Sárvári: *More or less? Using CAS in Mathematics teaching based on 15 years of experience*
36. Štefan Berežný: *Implementation of Research Findings in the Laboratories of DMTI*	Summary of the group's work

15:00-15:30 *Coffee Break*

Poster: 37. János Karsai, Lőrinc Pósfai, Eszter Szénási and Zsolt Vizi: *Teaching Mathematical Modeling to first-year math students: experiences of a modeling course in 2016*

15:30-16:30 **CADGME 2018 in Coimbra:** presentation by **Pedro Quaresma**

Plenary III:

Zsolt Lavicza: *GEOMATECH: Integrating Technology into Primary and Secondary School Teaching to Enhance Mathematics Education in Hungary*

16:30-18:30 City of Bolyai's -walk through the city

19:00-22:00 *Conference dinner*

Friday, 9 September 2016

9:00-10:30 **Parallel Session VI**

Chair: Paul Libbrecht	**Chair: Csaba Sárvári**
48. Natalija Budinski and Dragica Milinkovic: *Learning mathematics trough real life situation with use of educational software*	31. Denys Stolbov: *Visual models of cipher algorithms for students' learning information security*
35. Rein Prank, Evari Koppel, Joosep Kibal, Katrin Valdson and Joosep Norma: *Word Problem Solution Environment TEKSTER*	21. Martin Günzel, Tereza Suchopárová and Helena Binterová: *Tessellations in lower secondary school classes*
13. Gregor Jerše and Matija Lokar: *Learning and teaching programming and numerical methods with a system for automatic assessment*	16. Norbert Bogya: *Playing card game with finite projective geometry*

10:30-11:00 *Coffee Break*

11:00 – 12:30 **Workshops**

19. Eleonóra Stettner: *What We Learned From the Children?*	6. Liudmyla Gryzun: *Digital and didactic tools for the development of interdisciplinary curriculum for pre-service Mathematics teachers' training*

12:30-14:00 *Lunch*

14:00 - 16:00 **Workshops**

4. János Karsai: *With or without Delay: Simple Dynamic Systems with Mathematica*	9. Masataka Kaneko, Setsuo Takato, Satoshi Yamashita, Koji Nishiura, Hideyo Makishita: *Introduction to KeTCindy --- Unification of Dynamic Geometry and High-Quality Printing*

16:00-16:30 *Coffee Break*

16:30-17:30 **Plenary IV:**

Morten Misfeldt: *Teaching mathematics with reasoning tools: learning, teaching and curriculum planning*

17:30 – 18:30 Question time - scriber and moderator: **Paul Libbrecht**

19:00- D*inner*

Saturday, 10 September 2016

8:30-10:00 **Parallel Session VII**

Chair: Christian Mercat	**Chair: Masataka Kaneko**
45. Joris van der Hoeven: *GNU TeXmacs as a CAS front-end*	49. Natalija Budinski: *Geogebra as a tool for connecting Materials Science and high school Mathematics*
47. Zsolt Lavicza, Mamdouh Soliman and Maryam Al-Kandary: *Improving students' learning through technology integration in Kuwait*	42. Satoshi Yamashita: *Producing Class Materials with KeTCindy — Programming Styles, Creating Portal Site and the Evaluation*
50. Natalija Budinski: *Geogebra and origami-connection between technology and hands-on activities*	53. Hunor Nagy and Pál Kupán: *Improving the students performance using digital tools in geometry instruction*

10:00-10:30 *Coffee Break*

10:30-11:30 **Plenary V:**

Zoltán Kátai: *Learning algorithms in technologically and artistically enhanced interactive environments*

11:30-12:00 Closing

12:00-13:00 *Lunch*

15:00-22:00: **Optional excursion to Sighișoara/ Segesvár/Schäßburg** will be offered for a separate fee.