

ADG 2023 - Preliminary Programme

20 of September – Hotel Palace

09:00	09:30	Registration	
09:30	09:45	Opening - Chair Predrag Janičić	
09:45	10:30	Invited Talk - Formalisation, arithmetization and automatization of geometry	Julien Narboux
10:30	10:45	Coffee break	
10:45	12:30	Session 1 - Workshop Deduction in Education (WDE) - Chair Filip Marić	
10:45	11:30	Invited Talk - OK Geometry	Zlatan Magajna,
11:30	12:00	Solving with GeoGebra Discovery an Austrian Mathematics Olympiad problem: lessons learned	Belén Ariño-Morera, Zoltán Kovács , Tomas Recio and Piedad Tolmos
12:00	12:30	Solving some geometry problems of the Náboj 2023 contest with automated deduction in GeoGebra Discovery	Amela Hota, Zoltán Kovács and Alexander Vujic
12:30	14:00	Lunch	
14:00	16:00	Session 2a - WDE - Chair Pedro Quaresma	
14:00	14:30	The locus story of a rocking camel in a medical center in the city of Freistadt	Eva Erhart, Anna Käferböck, Zoltán Kovács and Engelbert Zeintl
14:30	15:00	Using GXWeb for theorem proving and mathematical modelling	Danny Aley and Philip Todd
15:00	15:30	Using Java Geometry Expert as guide in preparations for math contests	Ines Ganglmayr and Zoltán Kovács
15:30	16:00	Coffee break	
16:00	18:00	Session 2b - WDE - Chair Filip Marić	
16:00	16:30	Showing proofs, assessing difficulty with GeoGebra Discover	Zoltan Kovacs , Tomas Recio and M. Pilar Vélez
16:30	17:00	3D space trajectories and beyond: abstract art creation with 3D printing	Thierry Dana-Picard, Mathias Tejera and Eva Ulbrich
17:00	17:30	Deduction in Education: the Case of Serbia	Bojan Tomić, Miloš Milovanović and Gordana Medić-Simić
17:30	18:00	Euclid's theorems through the area method	Anna Petiurenko
18:00	18:15	Closing	Filip Marić
18:45	22:00	Cocktail at National Museum, Short Guided Tour and Joint Dinner (optional)	

21 of September – Hotel Palace

09:00	09:30	Registration	
09:30	12:30	Session 3 - ADG - Chair Pedro Quaresma	
09:30	10:30	Invited Talk - Automatization, formalization and visualization of hyperbolic geometry	Filip Marić
10:30	11:00	Coffee break	
11:00	11:30	Open source prover in the attic	Zoltán Kovács and Alexander Vujic
11:30	12:00	Automation of Triangle Ruler-and-Compass Constructions Using Constraint Solver	Milan Banković
12:00	12:30	Automated Completion of Statements and Proofs in Synthetic Geometry: an Approach based on Constraint Solving	Salwa Tabet González, Predrag Janičić and Julien Narboux
12:30	14:00	Lunch	
14:00	18:00	Session 4 - ADG - Chair Predrag Janičić	
14:00	14:30	Towards an Independent Version of Tarski's System of Geometry	Pierre Boutry, Stéphane Kastensbaum and Clément Sainter
14:30	15:00	Towards automated readable proofs of ruler and compass constructions	Vesna Marinković, Tijana Sukliovic and Filip Marić
15:00	15:30	Coffee break	
15:30	17:30	Tutorial Laboratory - GeoCoq to formalize high-school geometry problems	Julien Narboux and Pierre Boutry
17:30	18:00	Guest Lecture - Application of Quantifier Elimination in Geometry	Žarko Mijajlović
18:30	22:00	Walking Tour and Cruise with Dinner Onboard	

22 of September – Hotel Palace

09:00	09:30	Registration	
09:30	12:30	Session 5 - ADG - Chair Zoltán Kovács	
09:30	10:00	Considerations on Approaches and Metrics in Automated Theorem Generation/Finding in Geometry	Pedro Quaresma , Pierluigi Graziani and Stefano Nicoletti
10:00	10:30	Theorem Discovery amongst Cyclic Polygons	Phillip Todd
10:30	11:00	Coffee break	
11:00	11:30	Automatic Transformations of Coq Proof Scripts	Nicolas Magaud
11:30	12:00	Geometrically Analyzing the Equilibria of Parametric Biochemical Networks Admitting Linear Conservation Laws: Case Studies	Changbo Chen and Wenyuan Wu
12:00	12:30	Improving Angular Speed Uniformity by Piecewise Radical Reparameterization	Hoon Hong, Dongming Wang and Jing Yang
12:30	14:00	Lunch	
14:00	18:00	Session 6 - ADG - Chair Pedro Quaresma	
14:00	14:30	The Companion and Bezout Subresultants of Two Bernstein Polynomials	Mei Tan and Jing Yang
14:30	15:00	Automated proof of Ramsey theorem via symbolic computation	Jian Lu, Zhenbing Zeng and Liangyu Chen
15:00	16:00	Business Meeting & Closing	Predrag Janičić & Pedro Quaresma & Zoltán Kovács
16:00	16:30	Coffee break	
18:00	20:00	Dinner (optional)	