

Selected publications*

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Papers, books and theses

- [DPK24a] Noah Dana-Picard and Zoltán Kovács. “Estrella Solitaria in offset curves”. In: *The 29nd International Conference on Applications of Computer Algebra ACA’2024, Program & Abstracts*. <https://www.math.unm.edu/~aca/ACA/2024/Education/Dana-Picard.pdf>. June 2024.
- [GK24] Ines Ganglmayr and Zoltán Kovács. “Using Java Geometry Expert as Guide in the Preparations for Math Contests”. In: Proceedings 14th International Conference on *Automated Deduction in Geometry*, Belgrade, Serbia, 20-22th September 2023. Ed. by Pedro Quaresma and Zoltán Kovács. Vol. 398. Electronic Proceedings in Theoretical Computer Science. Open Publishing Association, 2024, pp. 124–131. DOI: 10.4204/EPTCS.398.15.
- [HKV24] Amela Hota, Zoltán Kovács, and Alexander Vujic. “Solving Some Geometry Problems of the Náboj 2023 Contest with Automated Deduction in GeoGebra Discovery”. In: Proceedings 14th International Conference on *Automated Deduction in Geometry*, Belgrade, Serbia, 20-22th September 2023. Ed. by Pedro Quaresma and Zoltán Kovács. Vol. 398. Electronic Proceedings in Theoretical Computer Science. Open Publishing Association, 2024, pp. 110–123. DOI: 10.4204/EPTCS.398.14.
- [KK24] Anna Käferböck and Zoltán Kovács. “The Locus Story of a Rocking Camel in a Medical Center in the City of Freistadt”. In: Proceedings 14th International Conference on *Automated Deduction in Geometry*, Belgrade, Serbia, 20-22th September 2023. Ed. by Pedro Quaresma and Zoltán Kovács. Vol. 398. Electronic Proceedings in Theoretical Computer Science. Open Publishing Association, 2024, pp. 132–141. DOI: 10.4204/EPTCS.398.16.
- [Kov24a] Zoltán Kovács. “Easy (but exact) study of caustics of conics”. In: *Research Journal of Mathematics & Technology* 13.1 (2024), pp. 39–59.
- [KO24] Zoltán Kovács and Reinhard Oldenburg. “A Technological Approach to Teaching Inequalities, Propositional and Predicate Logic”. In: *9th International Workshop on Satisfiability Checking and Symbolic Computation, July 2, 2024, Nancy, France, Collocated with IJ-CAR 2024*. Ed. by Chris Brown, Daniela Kaufmann, Cláudia Nalon, Alexander Steen, and Martin Suda. 3717 vols. July 2, 2024, pp. 122–131. eprint: <http://ceur-ws.org/Vol-3717/paper7.pdf>.
- [Kov+24b] Zoltán Kovács, Bernard Parisse, Tomás Recio, M. Pilar Vélez, and Jonathan H. Yu. “The ShowProof command in *GeoGebra Discovery*: Towards the automated ranking of elementary geometry theorems”. In: *ACM Commun. Comput. Algebra* 58.2 (June 2024), pp. 27–30. ISSN: 1932-2240.
- [KRV24] Zoltán Kovács, Tomás Recio, and M. Pilar Vélez. “Showing Proofs, Assessing Difficulty with GeoGebra Discovery”. In: Proceedings 14th International Conference on *Automated Deduction in Geometry*, Belgrade, Serbia, 20-22th September 2023. Ed. by Pedro Quaresma and Zoltán Kovács. Vol. 398. Electronic Proceedings in Theoretical Computer Science. Waterloo: Open Publishing Association, 2024, pp. 43–52. DOI: 10.4204/EPTCS.398.8.

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- [KV24] Zoltán Kovács and Alexander Vujic. “Open Source Prover in the Attic”. In: Proceedings 14th International Conference on *Automated Deduction in Geometry*, Belgrade, Serbia, 20-22th September 2023. Ed. by Pedro Quaresma and Zoltán Kovács. Vol. 398. Electronic Proceedings in Theoretical Computer Science. Open Publishing Association, 2024, pp. 53–61. DOI: 10.4204/EPTCS.398.9.
- [Mor+24] Belén Ariño Morera, Zoltán Kovács, Tomás Recio, and Piedad Tolmos. “Solving with GeoGebra Discovery an Austrian Mathematics Olympiad problem: Lessons Learned”. In: Proceedings 14th International Conference on *Automated Deduction in Geometry*, Belgrade, Serbia, 20-22th September 2023. Ed. by Pedro Quaresma and Zoltán Kovács. Vol. 398. Electronic Proceedings in Theoretical Computer Science. Waterloo: Open Publishing Association, 2024, pp. 101–109. DOI: 10.4204/EPTCS.398.13.
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- [BKR23] Christopher Brown, Zoltán Kovács, and Tomás Recio. “Faithful Real-Time Animation of Parametrized (Semi-) Algebraic Expressions via Cylindrical Algebraic Decomposition”. In: *ACM Commun. Comput. Algebra* 57.2 (2023), 43–46. ISSN: 1932-2240. DOI: 10.1145/3614408.3614413.
- [Bro+23b] Christopher W. Brown, Zoltán Kovács, Simone Luksch, Tomás Recio, Róbert Vajda, and M. Pilar Vélez. “Towards Detection of Partial Truth via Real Geometry”. In: *Proceedings of the 8th International Workshop on Satisfiability Checking and Symbolic Computation, July 28, 2023, Tromsø, Norway, Collocated with ISSAC 2023* (Tromsø, Norway). Ed. by Erika Ábrahám and Thomas Sturm. Vol. 3455. CEUR Workshop Proceedings. RWTH Aachen, Germany, July 2023. URL: <https://ceur-ws.org/Vol-3455/short2.pdf>.
- [Bro+23d] Christopher W. Brown, Zoltán Kovács, Tomás Recio, Róbert Vajda, and M. Pilar Vélez. “GeoGebra Discovery (system entry)”. In: *Intelligent Computer Mathematics*. 16th International Conference, CICM 2023, Cambridge, UK, September 5–8, 2023 Proceedings (Cambridge, UK). Ed. by Catherine Dubois and Manfred Kerber. Vol. 14101. Lecture Notes in Artificial Intelligence. Springer Cham, Aug. 31, 2023, p. 324. ISBN: 978-3-031-42752-7. DOI: 10.1007/978-3-031-42753-4.
- [DPK23a] Thierry Dana-Picard and Zoltán Kovács. “Automated Exploration of Envelopes and Offsets with Networking of Technologies”. In: *Mathematics in Computer Science* 17.1 (Jan. 2023), p. 3. ISSN: 1661-8289. DOI: 10.1007/s11786-022-00555-2.
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- [DPKY23b] Thierry Dana-Picard, Zoltán Kovács, and Wei-Chi Yang. “Topology of Quartic Loci Resulted From Lines Passing through a Fixed Point and a Conic”. In: *Conference on Geometry: Theory and Applications, Book of Abstracts*. Ed. by Bert Jüttler, Hans-Peter Schröcker, and Ivan Izmestiev. JKU Linz, Austria, June 2023, p. 41.
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- [KRV23b] Zoltán Kovács, Tomás Recio, and M. Pilar Vélez. “GeoGebra Automated Reasoning Tools: why and how (to use them in the classroom)”. In: *The 28nd International Conference on Applications of Computer Algebra ACA’2023, Program & Abstracts*. https://iit.sggw.edu.pl/wp-content/uploads/sites/18/2023/07/ACA2023_Program_Abstracts-1.pdf?x58870. July 2023.

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- [Bro+22] Christopher W. Brown, Zoltán Kovács, Tomás Recio, Róbert Vajda, and M. Pilar Vélez. “Is Computer Algebra Ready for Conjecturing and Proving Geometric Inequalities in the Classroom?” In: *Mathematics in Computer Science* 16 (Dec. 2022). <https://rdcu.be/c07bf>, p. 31. DOI: 10.1007/s11786-022-00532-9.
- [DPK22a] Thierry Dana-Picard and Zoltán Kovács. “Experimental Study of Isoptics of a Plane Curve Using Dynamical Coloring”. In: *Mathematics Education in the Age of Artificial Intelligence: How Artificial Intelligence can Serve Mathematical Human Learning*. Ed. by Philippe R. Richard, M. Pilar Vélez, and Steven Van Vaerenbergh. Springer International Publishing, Cham, 2022, pp. 231–250. ISBN: 978-3-030-86909-0. DOI: 10.1007/978-3-030-86909-0_11.
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- [Kov+22a] Z. Kovács, T. Recio, L.F. Tabera, and M.P. Vélez. “Dealing with degeneracies in automated theorem proving in geometry: a zero-dimensional approach”. In: *Actas del XVII Congreso EACA, Castellón de la Plana, Junio 20-22, 2022*. June 2022, pp. 113–117.
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