

Lista de lucrări

Horváth Alexandru

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1. Horváth Alexandru, (coautor) *Experiment-centered Approach and Visuality in Education of Mathematics and Physics*, – The Pseudosphere Monument in Tirgu-Mures, Editura Kaposvár University, Kaposvár, Hungary, 2013, ISBN 978-963-9821-52-1, 2 pagini
2. Horváth Alexandru, *Introducere în algebra computațională – Aplicații în teoria numerelor, criptografie, singularități*, Editura Didactică și Pedagogică, București, 2012, ISBN 978-973-30-3298-4, 192 pagini
3. Horváth Alexandru, *Introducere în algebra computațională – Aplicații în grupuri, ecuații algebrice, topologie*, Editura Didactică și Pedagogică, București, 2011, ISBN 978-973-30-3103-1, 208 pagini
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5. Horváth Alexandru, *Matematici speciale - Analiză complexă și aplicații*, Editura Universității “Petru Maior”, Tg- Mureș, ISBN 973-7794-19-2, 2004, 217 pagini
6. Szilágyi Miklós, Szabó Zsuzsanna, Horváth Alexandru, Finta Béla, GrațIELa Laslo, Mona Cristescu, Nicola Oprea, Marcel Bogdan, *Teste grilă de matematică, Culegere de probleme*, Editura Universității „Petru Maior” Tg-Mureș, 2002, ISBN 973-8084-54-7. 250 pag.,
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1. Szántó Csaba, Horváth Alexandru, *Formulas for Kronecker invariants using a representation theoretical approach*, Linear Algebra and its Applications 430, issue 2-3 (2009) 664-673, ISI IF(2007) 0.702, IF(2008) 0.878, ISSN: 0024-3795 Zbl pre05382408, doi:10.1016/j.laa.2008.09.024
2. Brigitte E. Breckner, Horváth Alexandru, Varga Csaba, *A multiplicity result for a special class of gradient type systems with non-differentiable term*, Nonlinear Analysis-Theory Methods & Applications, 70 issue 2 (2009) 606-620, ISI IF(2007) 1.097 IF(2008) 1.408, ISSN: 0362-546X, doi:10.1016/j.na.2007.12.029
3. Hannelore Lisei, Varga Csaba, Horváth Alexandru, *Multiplicity results for a class of quasilinear eigenvalue problems on unbounded domains*, Archiv der Mathematik 90, issue 3, (2008), 256-266, ISI IF(2007) 0.407, ISSN: 0003-889X MR2391360, (Reviewer: Kimiaki Narukawa), DOI 10.1007/s00013-007-2398-6
4. Horváth Alexandru, Némethi András, *On the Milnor Fiber of Non-isolated Singularities*, Studia Scientiarum Mathematicarum Hungarica 43, issue 1, 131-136 (2006), ISI IF(2007) 0.28, ISSN 0081-6906, MR2219777, (Reviewer: Mihai Tibăr), DOI: 10.1556/SScMath.43.2006.1.8

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5. Horváth Alexandru, *Computer algebra proof of some identities involving binomial coefficients*, Procedia Manufacturing, Volum 22, 2018, Pages 1043–1050, 11th International Conference Interdisciplinarity in Engineering, INTER-ENG 2017, 5-6 October 2017, Tirgu Mures, Romania, [doi: 10.1016/j.promfg.2018.03.148](https://doi.org/10.1016/j.promfg.2018.03.148), ISSN: 2351-9789 (Online)
6. Horváth Alexandru, *An algebraic topology based secret sharing scheme*, Procedia Manufacturing, Volum 22, 2018, Pages **1051–1058**, 11th International Conference Interdisciplinarity in Engineering, INTER-ENG 2017, 5-6 October 2017, Tirgu Mures, Romania, [doi: doi.org/10.1016/j.promfg.2018.03.149](https://doi.org/10.1016/j.promfg.2018.03.149), ISSN: 2351-9789 (Online)
7. Horváth Alexandru, *A New Probabilistic "Paradox" Involving the Bayes Theorem*, Scientific Bulletin of the "Petru Maior" University of Tirgu-Mures Vol. 12 (XXIX) no. 2, 2015, ISSN-L 1841-9267 (Print), ISSN 2285-438X (Online), ISSN 2286-3184 (CD-ROM)
8. Horváth Alexandru, *A variant of the continued fraction expansion algorithm*, Procedia Technology Volum 19, 2015, Pages 793–798, 8th International Conference Interdisciplinarity in Engineering, INTER-ENG 2014, 9-10 October 2014, Tirgu Mures, Romania, [doi:10.1016/j.protcy.2015.02.113](https://doi.org/10.1016/j.protcy.2015.02.113), ISSN: 2212-0173 (Online)
9. Horváth Alexandru, *If $1+1=2$ then the Pythagorean theorem holds, or one more proof of the oldest theorem of mathematics*, Scientific Bulletin of the "Petru Maior" University of Tirgu-Mures Vol. 10 (XXVII) no. 1, 2013, ISSN-L 1841-9267 (Print), ISSN 2285-438X (Online), ISSN 2286-3184 (CD-ROM)
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11. Horváth Alexandru, *On Differentiable Functions Preserving Rationality and Irrationality*, Studia Universitatis Babes-Bolyai, vol XLV, nr. 4, (2000) 63-70
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12. Horváth Alexandru, *Proving Geometric Theorems via Gröbner Bases Theory*, Buletinul Științific al Universității Baia Mare, seria B, Matematica-Informatica, vol XIV (2000), nr 1, pp. 49-58, ISSN 1224-3221, MR1832123
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14. Horváth Alexandru, *On some Jordan-Hölder-Dedekind Type Theorems in Lattices*, Mathematica Pannonica, 7/2 (1996), 209-213, ISSN 0865-2090
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15. Horváth Alexandru, *Characterizing Frobenius Form of Matrices*, Buletinul Științific al Univ. Petru Maior, vol XVII, ISSN 1221-3470, (2004) pag. 295-302
16. Horváth Alexandru, Finta Béla *Solving Nonlinear Systems of Equations on a Domain*, Bulletins for Applied & Computer Mathematics, BAM-1973, vol. XLIV, nr.4, 2002 Technical University of Budapest, (XCIX), pag. 129-135,
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19. Horváth Alexandru, *An Applicaton of Grobner Bases*, - volum omagial - Profesor Gheorghe Fărcaș la vârsta de 70 de ani, Editura Universității “Petru Maior”, (2004), Tg-Mureș, ISBN 973-7794-07-9. pag. 97-102.
20. Oláh-Gál Róbert, Horváth Alexandru, *Deep Geometrical Thoughts from some -- until now not published -- manuscripts of János Bolyai*, Conference Proceedings, History of Mathematics and Teaching of Mathematics, University of Miskolc, Hungary, 21-23 May, 2004, ISBN 973-98342-7-2, pag. 65-75

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Semnătura

