

UNIVERSITATEA „SAPIENTIA” DIN CLUJ-NAPOCA
FACULTATEA DE ȘTIINȚE TEHNICE ȘI UMANISTE
DEPARTAMENTUL MATEMATICĂ-INFORMATICĂ
Examen de promovare pe postul de **profesor universitar**, poz. 4.

Domeniul de știință: Matematică

Disciplinele postului anunțat pentru examen de promovare: Algebră, Teoria probabilităților și statistică matematică, Geometrie computațională

FIȘA DE VERIFICARE

a îndeplinirii standardelor universității de prezentare la examenul de promovare pe postul de
profesor universitar

Candidat: Horobeț Emil,

Data nașterii: 04.12.1988

Funcția actuală: Conferențiar universitar

Data numirii în funcția actuală: septembrie 2019,

Instituția: Universitatea ”Sapientia” din Cluj-Napoca

1. Studiile universitare

Nr. crt.	Instituția de învățământ superior și facultatea absolvită	Domeniul	Perioada	Titlul acordat
1.	UNIV. BABEȘ-BOLYAI	MATEMATICĂ	2007-2010	LICENȚĂ ÎN MATEM.
2.	UNIV. BABEȘ-BOLYAI	MATEM. COMPUT.	2010-2012	MASTER ÎN MATEM.

2. Studiile de doctorat

Nr. crt.	Instituția organizatoare de doctorat	Domeniul	Perioada	Titlul științific acordat
1.	EINDHOVEN UNIVERSITY OF TECHNOLOGY	MATEMATICĂ	2012-2016	DOCTOR (PH.D.)

3. Studii și burse postdoctorale (stagii de cel puțin 6 luni)

Nr. crt.	Țara / Unitatea	Domeniul / Specializarea	Perioada	Tipul de bursă
1.	ROMÂNIA/ INSTITUTUL DE MATEMATICĂ A ACADEMIEI ROMÂNE “SIMION STIOLOW”	MATEMATICĂ	2024-2025	POSTDOCTORALĂ (PRIN PNRR)

4. Grade didactice/profesionale anterioare

Nr. crt.	Instituția	Domeniul	Perioada	Titlul/postul didactic sau gradul/postul profesional
1.	UNIV. SAPIENTIA	MATEMATICĂ	2019-prezent	CONFERENȚIAR UNIVERSITAR
2.	UNIV. SAPIENTIA	MATEMATICĂ	2017-2019	LECTOR UNIVERSITAR
3.	UNIV. SAPIENTIA	MATEMATICĂ	2016-2017	ASISTENT

				UNIVERSITAR
4.	UNIV. BABEȘ-BOLYAI	MATEMATICĂ	2013-2016	ASIST. DE CERCETARE

5. Gradul de îndeplinire a indicatorilor ¹

Valorile standardelor minimale impuse	Valorile standardelor obținute
$S \geq 5$	$S=8.0355$
$S_{\text{recent}} \geq 2.5$	$S_{\text{recent}}=3.471$
$C \geq 12$	$C=138$

Candidat,

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ARTICOLE PUBLICATE

Nr. crt.	Articol	Recent	s_i	n_i	s_i/n_i
1.	E. Horobeț , E. Teixeira Turatti, <i>When does subtracting a rank-one approximation decrease tensor rank?</i> , Linear Algebra and Its Applications, Volume 709 (2025), Pages 397-415.	Da	1.483 (în 2024)	2	0.7415
2.	E. Horobeț , <i>The critical curvature degree of an algebraic variety</i> , Journal of Symbolic Computation, Volume 121, March–April 2024, 102259	Da	1.355 (în 2021)	1	1.355
3.	E. Horobeț , J. I. Rodriguez, <i>Data loci in algebraic optimization</i> , Journal of Pure and Applied Algebra, Volume 226 (2022), Issue 12, Page 107144	Da	1.617 (în 2024)	2	0.8085
4.	E. Horobeț , M. Weinstein, <i>Offset Hypersurfaces and Persistent Homology of Algebraic Varieties</i> , Computer Aided Geometric Design, Volume 74 (2019), Page 101767	Da	1.132 (în 2021)	2	0.566
5.	A. Boralevi, J. Draisma, E. Horobeț , E. Robeva, <i>Orthogonal and unitary tensor decomposition from an algebraic perspective</i> , Israel Journal of Mathematics, 222 (2017), 223-260.	Nu	2.175 (în 2024)	4	0.54375
6.	E. Horobeț , <i>The Data Singular and the Data Isotropic Loci for Affine Cones</i> , Comm. Algebra, Volume 45 (2017), Issue 3, pp. 1177 – 1186	Nu	1.01 (în 2024)	1	1.01

¹ În conformitate cu standardele minimale stabilite în anexele OM 6129/2016 pentru domeniul de știință al postului

7.	E. Horobeț , J. I. Rodriguez, <i>The Maximum Likelihood Data Singular Locus</i> , J. Symbolic Comput., Volume 79 (2017), Part 1, pp. 99–107.	Nu	1.355 (în 2021)	2	0.6775
8.	J.Draisma, E. Horobeț , <i>The average number of critical rank-one approximations to a tensor</i> , Linear Multilinear Alg., Volume 64 (2016), Issue 12, 2494 - 2514	Nu	1.17 (în 2024)	2	0.585
9.	R. H. Eggermont, E. Horobeț , K. Kubjas, <i>Algebraic boundary of matrices of nonnegative rank at most three</i> , Linear Algebra Appl., Volume 508 (2016), 62-80	Nu	1.483 (în 2024)	3	0.4943
10.	J. Draisma, E. Horobeț , G. Ottaviani, B. Sturmfels, R.R. Thomas, <i>The Euclidean Distance Degree of an Algebraic Variety</i> , Found. Comput. Math., Volume 16, Issue 1(2016), 99-149	Nu	6.245 (în 2024)	5	1.249
TOTAL:		S=8.03055		S_recent=3.471	

CITĂRI ALE ARTICOLELOR PUBLICATE

Nr. crt.	Aricolul citat	Articolul și revista în care a fost citat	S_i (în 2021)	Nr. total citări
1.	E. Horobeț , E. Teixeira Turatti, <i>When does subtracting a rank-one approximation decrease tensor rank?</i> , Linear Algebra and Its Applications, Volume 709 (2025), Pages 397-415.	Bernardi, A., Oneto, A. and Santarsiero, P., 2025. Decomposition loci of tensors. Journal of Symbolic Computation, p.102451.	1.355	2
		Di Rocco, S., Gustafsson, L. and Sodomaco, L., 2025. Conditional Euclidean distance optimization via relative tangency. Mathematics of Computation.	2.273	
2.	E. Horobeț , <i>The critical curvature degree of an algebraic variety</i> , Journal of Symbolic Computation, Volume 121, March–April 2024, 102259	Di Rocco, S., Edwards, P.B., Eklund, D., Gäfvert, O. and Hauenstein, J.D., 2023. Computing geometric feature sizes for algebraic manifolds. <i>SIAM Journal on Applied Algebra and Geometry</i> , 7(4), pp.716-741.	2.344	1
3.	E. Horobeț , J. I. Rodriguez, <i>Data loci in algebraic optimization</i> , Journal of Pure and Applied Algebra, Volume 226 (2022), Issue 12, Page 107144	Kubjas, K., Sodomaco, L., & Tsigaridas, E. (2022). Exact solutions in low-rank approximation with zeros. Linear Algebra and its Applications, 641, 67-97	1.04	2
		Di Rocco, S., Gustafsson, L. and Sodomaco, L., 2025. Conditional Euclidean distance optimization via relative tangency. Mathematics of Computation.	2.273	

4.	E. Horobeț, M. Weinstein, <i>Offset Hypersurfaces and Persistent Homology of Algebraic Varieties,</i> Computer Aided Geometric Design, Volume 74 (2019), Page 101767	Breiding, P., Kališnik, S., Sturmfels, B., & Weinstein, M. (2018). Learning algebraic varieties from samples. <i>Revista Matemática Complutense</i> , 31, 545-593.	1.324	14
		Maxim, L. and Tibăr, M., 2024. Euclidean distance degree and limit points in a Morsification. <i>Advances in Applied Mathematics</i> , 152, p.102597.	1.276	
		Di Rocco, S., Eklund, D., & Weinstein, M. (2020). The bottleneck degree of algebraic varieties. <i>SIAM Journal on Applied Algebra and Geometry</i> , 4(1), 227-253.	2.344	
		Ottaviani, G., Sodomaco, L., & Ventura, E. (2021). Asymptotics of degrees and ED degrees of Segre products. <i>Advances in Applied Mathematics</i> , 130, 102242.	1.276	
		Cholaquidis, A., Fraiman, R., & Moreno, L. (2023). Universally consistent estimation of the reach. <i>Journal of Statistical Planning and Inference</i> , 225, 110-120.	0.892	
		Maxim, L. G., Rodriguez, J. I., & Wang, B. (2020). Defect of Euclidean distance degree. <i>Advances in Applied Mathematics</i> , 121, 102101.	1.276	
		Ottaviani, G., & Sodomaco, L. (2020). The distance function from a real algebraic variety. <i>Computer Aided Geometric Design</i> , 82, 101927.	1.006	
		Di Rocco, S., Eklund, D., & Gäfvert, O. (2022). Sampling and homology via bottlenecks. <i>Mathematics of Computation</i> , 91(338), 2969-2995.	2.273	
		Cifuentes, D., Ranestad, K., Sturmfels, B., & Weinstein, M. (2022). Voronoi cells of varieties. <i>Journal of symbolic computation</i> , 109, 351-366.	1.131	
		Maxim, L. G., Rodriguez, J. I., & Wang, B. (2022). A Morse theoretic approach to non-isolated singularities and applications to optimization. <i>Journal of Pure and Applied Algebra</i> , 226(3), 106865.	1.222	
		Kališnik, S., Lehn, C., & Limic, V. (2021). Geometric and probabilistic limit theorems in topological data analysis. <i>Advances in Applied Mathematics</i> , 131, 102244.	1.276	
		Eklund, D. (2023). The numerical algebraic geometry of bottlenecks. <i>Advances in Applied Mathematics</i> , 142, 102416.	1.276	
		Sodomaco, L. (2021). On the product of the singular values of a binary tensor. <i>Israel Journal of Mathematics</i> , 243(1), 233-272.	1.691	
5.	A. Boralevi, J. Draisma, E. Horobeț, E. Robeva, <i>Orthogonal and unitary</i>	13. Sánchez-Reyes, J., & Fernández-Jambrina, L. (2022). On the reach and the smoothness class of pipes and offsets: a survey. <i>AIMS Mathematics</i> , 7(5), 7742-7758.	0.738	17
		Palmer, D., Bommers, D., & Solomon, J. (2020). Algebraic representations for volumetric frame fields. <i>ACM Transactions on Graphics (TOG)</i> , 39(2),	4.512	

<i>tensor decomposition from an algebraic perspective</i>, Israel Journal of Mathematics, 222 (2017), 223-260.	1-17.	
	Bolsinov, A. V., Konyaev, A. Y., & Matveev, V. S. (2023). Applications of Nijenhuis geometry III: Frobenius pencils and compatible non-homogeneous Poisson structures. The Journal of Geometric Analysis, 33(6), 193.	1.47
	Vannieuwenhoven, N. (2017). Condition numbers for the tensor rank decomposition. Linear Algebra and its Applications, 535, 35-86.	1.04
	Breiding, P., & Vannieuwenhoven, N. (2018). The condition number of join decompositions. SIAM Journal on Matrix Analysis and Applications, 39(1), 287-309.	1.953
	Hu, S., & Ye, K. (2022). Linear convergence of an alternating polar decomposition method for low rank orthogonal tensor approximations. Mathematical Programming, 1-60.	4.612
	Turatti, E. (2022). On tensors that are determined by their singular tuples. SIAM Journal on Applied Algebra and Geometry, 6(2), 319-338.	2.344
	Pan, J., & Ng, M. K. (2018). Symmetric orthogonal approximation to symmetric tensors with applications to image reconstruction. Numerical Linear Algebra with Applications, 25(5), e2180.	1.386
	Draisma, J., Ottaviani, G., & Tocino, A. (2018). Best rank-k approximations for tensors: generalizing Eckart–Young. Research in the Mathematical Sciences, 5(2), 27.	2.121
	Robeva, E., & Seigal, A. (2017). Singular vectors of orthogonally decomposable tensors. Linear and Multilinear Algebra, 65(12), 2457-2471.	0.884
	Huang, H. L., Lu, H., Ye, Y., & Zhang, C. (2021). Diagonalizable higher degree forms and symmetric tensors. Linear Algebra and its Applications, 613, 151-169.	1.04
	Muller, T., Robeva, E., & Usevich, K. (2022). Robust Eigenvectors of Symmetric Tensors. SIAM Journal on Matrix Analysis and Applications, 43(4), 1784-1805.	1.953
	Halaseh, K., Muller, T., & Robeva, E. (2022). Orthogonal decomposition of tensor trains. Linear and Multilinear Algebra, 70(21), 6609-6639.	0.884
	Li, J., Usevich, K., & Comon, P. (2019). On approximate diagonalization of third order symmetric tensors by orthogonal transformations. Linear Algebra and its Applications, 576, 324-351.	1.04
	Palmer, D., Stein, O., & Solomon, J. (2021, August). Frame Field Operators. In Computer Graphics Forum (Vol. 40, No. 5, pp. 231-245).	2.473
	Koiran, P. (2021). Orthogonal tensor decomposition and orbit closures from a linear algebraic perspective. Linear and	0.884

		Multilinear Algebra, 69(13), 2353-2388.		
		Diaz, S. P., & Lutoborski, A. (2022). Discrete Fourier transform tensors and their eigenvalues. Linear and Multilinear Algebra, 70(15), 2934-2947.	0.884	
		Lia, J., Usevichb, K., & Comona, P. On diagonalization of third order symmetric tensors by orthogonal transformations. Methods, 3, 2	2.568	
6.	E. Horobeț , <i>The Data Singular and the Data Isotropic Loci for Affine Cones</i> , Comm. Algebra, Volume 45 (2017), Issue 3, pp. 1177 – 1186	Maxim, L. and Tibăr, M., 2024. Euclidean distance degree and limit points in a Morsification. Advances in Applied Mathematics, 152, p.102597.	1.276	5
		Di Rocco, S., Gustafsson, L. and Sodomaco, L., 2025. Conditional Euclidean distance optimization via relative tangency. Mathematics of Computation.	2.273	
		Maxim, L. G., Rodriguez, J. I., & Wang, B. (2020). Defect of Euclidean distance degree. Advances in Applied Mathematics, 121, 102101	1.276	
		Maxim, L. G., Rodriguez, J. I., & Wang, B. (2022). A Morse theoretic approach to non-isolated singularities and applications to optimization. Journal of Pure and Applied Algebra, 226(3), 106865.	1.222	
		Helmer, M., & Sturmfels, B. (2018). Nearest points on toric varieties. Mathematica Scandinavica, Vol. 122 No. 2.	0.757	
7.	J.Draisma, E. Horobeț , <i>The average number of critical rank-one approximations to a tensor</i> , Linear Multilinear Alg., Volume 64 (2016), Issue 12, 2494 - 2514	Cazzaniga, A., Lerario, A. and Rosana, A., 2024. What is the probability that a random symmetric tensor is close to rank-one?. SIAM Journal on Applied Algebra and Geometry, 8(2), pp.227-258.	2.344	6
		Bürgisser, Peter, and Antonio Lerario. "Probabilistic schubert calculus." Journal für die reine und angewandte Mathematik (Crelles Journal) (2018).	3.629	
		Ottaviani, G., Sodomaco, L., & Ventura, E. (2021). Asymptotics of degrees and ED degrees of Segre products. Advances in Applied Mathematics, 130, 102242.	1.276	
		Breiding, P. (2017). The expected number of eigenvalues of a real Gaussian tensor. SIAM Journal on Applied Algebra and Geometry, 1(1), 254-271.	2.344	
		Breiding, P. (2019). How many eigenvalues of a random symmetric tensor are real?. Transactions of the American Mathematical Society, 372(11), 7857-7887.	2.332	
		Qi, Y. (2018). A very brief introduction to nonnegative tensors from the geometric viewpoint. Mathematics, 6(11), 230.	0.634	
8.	R. H. Eggermont, E. Horobeț , K. Kubjas, <i>Algebraic boundary of</i>	Kubjas, Kaie, Elina Robeva, and Bernd Sturmfels. "Fixed points EM algorithm and nonnegative rank boundaries." <i>The Annals of Statistics</i> (2015): 422-461.	4.874	3

	<i>matrices of nonnegative rank at most three</i> , Linear Algebra Appl., Volume 508 (2016), 62-80	Chistikov, D., Kiefer, S., Marusic, I., Shirmohammadi, M., & Worrell, J. (2017). Nonnegative matrix factorization requires irrationality. <i>SIAM Journal on Applied Algebra and Geometry</i> , 1(1), 285-307.	2.344	
		Shitov, Y. (2021). Nonnegative rank depends on the field. <i>Mathematical Programming</i> , 186(1-2), 479-486.	4.612	
9.	J. Draisma, E. Horobet, G. Ottaviani, B. Sturmfels, R.R. Thomas, <i>The Euclidean Distance Degree of an Algebraic Variety</i> , Found. Comput. Math., Volume 16, Issue 1(2016), 99-149	Connelly, E., Duff, T. and Loucks-Tavitas, J., 2024. Algebra and geometry of camera resectioning. <i>Mathematics of Computation</i> .	2.273	88
		Di Rocco, S., Gustafsson, L. and Sodomaco, L., 2025. Conditional Euclidean distance optimization via relative tangency. <i>Mathematics of Computation</i> .	2.273	
		Kohn, K., Sattelberger, A.L. and Shahverdi, V., 2025. Geometry of linear neural networks: Equivariance and invariance under permutation groups. <i>SIAM Journal on Matrix Analysis and Applications</i> , 46(2), pp.1378-1415.	1.953	
		Agarwal, S., Duff, T., Lieblisch, M. and Thomas, R.R., 2024. An atlas for the pinhole camera. <i>Foundations of Computational Mathematics</i> , 24(1), pp.227-277.	5.223	
		Maxim, L. and Tibăr, M., 2024. Morse numbers of complex polynomials. <i>Journal of Topology</i> , 17(4), p.e12362.	3.352	
		Améndola, C., Gustafsson, L., Kohn, K., Marigliano, O. and Seigal, A., 2024. Differential equations for Gaussian statistical models with rational maximum likelihood estimator. <i>SIAM Journal on Applied Algebra and Geometry</i> , 8(3), pp.465-492.	2.344	
		Muller, T., Nanda, V. and Seigal, A., 2025. Multilinear hyperquiver representations. <i>Foundations of Computational Mathematics</i> , pp.1-43.	5.223	
		Nasonov, I., Panina, G. and Siersma, D., 2024. Concurrent normals problem for convex polytopes and Euclidean distance degree. <i>Acta Mathematica Hungarica</i> , pp.1-17.	0.724	
		Himmelmann, M. and Evans, M.E., 2024. Robust geometric modeling of 3-periodic tensegrity frameworks using Riemannian optimization. <i>SIAM Journal on Applied Algebra and Geometry</i> , 8(2), pp.259-283.	2.344	
		Maxim, L. and Tibăr, M., 2024. Euclidean distance degree and limit points in a Morsification. <i>Advances in Applied Mathematics</i> , 152, p.102597.	1.276	
		Maxim, L.G., Rodriguez, J.I., Wang, B. and Wu, L., 2024. Linear optimization on varieties and Chern-Mather classes. <i>Advances in Mathematics</i> , 437, p.109443.	3.091	
		Sodomaco, L. and Turatti, E.T., 2024. The span of singular tuples of a tensor beyond the boundary format. <i>Journal of Symbolic Computation</i> , 120, p.102230.	1.131	

		Alexandr, Y. and Hoşten, S., 2024. Logarithmic Voronoi cells for Gaussian models. <i>Journal of Symbolic Computation</i> , 122, p.102256.	1.131	
		Ye, K., & Lim, L. H. (2016). Schubert varieties and distances between subspaces of different dimensions. <i>SIAM Journal on Matrix Analysis and Applications</i> , 37(3), 1176-1197	1.953	
		Breiding, P., Kališnik, S., Sturmfels, B., & Weinstein, M. (2018). Learning algebraic varieties from samples. <i>Revista Matemática Complutense</i> , 31, 545-593	1.324	
		Gross, E., Harrington, H. A., Rosen, Z., & Sturmfels, B. (2016). Algebraic systems biology: a case study for the Wnt pathway. <i>Bulletin of mathematical biology</i> , 78, 21-51.	1.778	
		Barvinok, A. (2016). Computing the permanent of (some) complex matrices. <i>Foundations of Computational Mathematics</i> , 16, 329-342.	5.223	
		Maxim, L. G., Rodriguez, J. I., & Wang, B. (2020). Euclidean distance degree of the multiview variety. <i>SIAM Journal on Applied Algebra and Geometry</i> , 4(1), 28-48.	2.344	
		Henrion, D., Naldi, S., & El Din, M. S. (2016). Exact algorithms for linear matrix inequalities. <i>SIAM Journal on Optimization</i> , 26(4), 2512-2539.	3.854	
		Cifuentes, D., Harris, C., & Sturmfels, B. (2020). The geometry of SDP-exactness in quadratic optimization. <i>Mathematical programming</i> , 182(1-2), 399-428.	4.612	
		Ottaviani, G., Spaenlehauer, P. J., & Sturmfels, B. (2014). Exact solutions in structured low-rank approximation. <i>SIAM Journal on Matrix Analysis and Applications</i> , 35(4), 1521-1542	1.953	
		Bürgisser, P., & Lerario, A. (2020). Probabilistic schubert calculus. <i>Journal für die reine und angewandte Mathematik (Crelles Journal)</i> , 2020(760), 1-58.	3.629	
		Saunderson, J. (2019). Certifying polynomial nonnegativity via hyperbolic optimization. <i>SIAM Journal on Applied Algebra and Geometry</i> , 3(4), 661-690.	2.344	
		Çelik, T. Ö., Jamneshan, A., Montúfar, G., Sturmfels, B., & Venturello, L. (2021). Wasserstein distance to independence models. <i>Journal of symbolic computation</i> , 104, 855-873	1.131	
		Compagnoni, M., Notari, R., Antonacci, F., & Sarti, A. (2014). A comprehensive analysis of the geometry of TDOA maps in localization problems. <i>Inverse Problems</i> , 30(3), 035004	1.502	
		Di Rocco, S., Eklund, D., & Weinstein, M. (2020). The bottleneck degree of algebraic varieties. <i>SIAM Journal on Applied Algebra and Geometry</i> , 4(1), 227-253.	2.344	
		Breiding, P., & Vannieuwenhoven, N. (2021). The condition number of	3.854	

		Riemannian approximation problems. SIAM Journal on Optimization, 31(1), 1049-1077.	
		Drusvyatskiy, D., Lee, H. L., Ottaviani, G., & Thomas, R. R. (2017). The Euclidean distance degree of orthogonally invariant matrix varieties. Israel Journal of Mathematics, 221(1), 291-316.	1.691
		Pfeffer, M., Seigal, A., & Sturmfels, B. (2019). Learning paths from signature tensors. SIAM Journal on Matrix Analysis and Applications, 40(2), 394-416.	1.953
		Schost, É., & Spaenlehauer, P. J. (2016). A quadratically convergent algorithm for structured low-rank approximation. Foundations of Computational Mathematics, 16(2), 457-492.	5.223
		Ponce, J., Sturmfels, B., & Trager, M. (2017). Congruences and concurrent lines in multi-view geometry. Advances in Applied Mathematics, 88, 62-91.	1.276
		Gross, E., Davis, B., Ho, K. L., Bates, D. J., & Harrington, H. A. (2016). Numerical algebraic geometry for model selection and its application to the life sciences. Journal of The Royal Society Interface, 13(123), 20160256.	2.583
		del Campo, A. M., & Rodriguez, J. I. (2017). Critical points via monodromy and local methods. Journal of Symbolic Computation, 79, 559-574.	1.131
		Breiding, P., Sottile, F., & Woodcock, J. (2022). Euclidean distance degree and mixed volume. Foundations of Computational Mathematics, 22(6), 1743-1765.	5.223
		Lee, H., & Sturmfels, B. (2016). Duality of multiple root loci. Journal of Algebra, 446, 499-526.	1.138
		Fløystad, G., Kileel, J., & Ottaviani, G. (2018). The Chow form of the essential variety in computer vision. Journal of Symbolic Computation, 86, 97-119.	1.131
		Turatti, E. (2022). On tensors that are determined by their singular tuples. SIAM Journal on Applied Algebra and Geometry, 6(2), 319-338.	2.344
		Aluffi, P., & Harris, C. (2018). The Euclidean distance degree of smooth complex projective varieties. Algebra & Number Theory, 12(8), 2005-2032.	2.203
		Ottaviani, G., Sodomaco, L., & Ventura, E. (2021). Asymptotics of degrees and ED degrees of Segre products. Advances in Applied Mathematics, 130, 102242.	1.276
		Aluffi, P. (2018). Projective duality and a Chern-Mather involution. Transactions of the American Mathematical Society, 370(3), 1803-1822.	2.332
		Maxim, L. G., Rodriguez, J. I., & Wang, B. (2020). Defect of Euclidean distance degree. Advances in Applied Mathematics, 121, 102101.	1.276
		Draisma, J., Ottaviani, G., & Tocino, A. (2018). Best rank-k approximations for tensors: generalizing Eckart-Young.	2.121

		Research in the Mathematical Sciences, 5(2), 27.		
		Bernardi, A., Daleo, N. S., Hauenstein, J. D., & Mourrain, B. (2017). Tensor decomposition and homotopy continuation. Differential geometry and its applications, 55, 78-105.	0.707	
		Kohn, K., Merkh, T., Montúfar, G., & Trager, M. (2022). Geometry of linear convolutional networks. SIAM Journal on Applied Algebra and Geometry, 6(3), 368-406.	2.344	
		Ottaviani, G., & Sodomaco, L. (2020). The distance function from a real algebraic variety. Computer Aided Geometric Design, 82, 101927.	1.006	
		Agarwal, S., Duff, T., Lieblisch, M., & Thomas, R. R. (2022). An atlas for the pinhole camera. Foundations of Computational Mathematics, 1-51.	5.223	
		Harris, C. (2017). Computing Segre classes in arbitrary projective varieties. Journal of Symbolic Computation, 82, 26-37	1.131	
		Zhang, X. (2018). Chern classes and characteristic cycles of determinantal varieties. Journal of Algebra, 497, 55-91	1.138	
		Spaenlehauer, P. J. (2014). On the Complexity of Computing Critical Points with Gröbner Bases. SIAM Journal on Optimization, 24(3), 1382-1401.	3.854	
		Cifuentes, D., Ranestad, K., Sturmfels, B., & Weinstein, M. (2022). Voronoi cells of varieties. Journal of symbolic computation, 109, 351-366.	1.131	
		Helmer, M., & Nanda, V. (2022). Conormal spaces and Whitney stratifications. Foundations of Computational Mathematics, 1-36.	5.223	
		Qi, F., Tianjiang, W., Fang, L., & HeFei, L. (2018). Research on multi-camera information fusion method for intelligent perception. Multimedia Tools and Applications, 77, 15003-15026.	0.707	
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		TOTAL CITĂRI: 138		

Candidat,

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Condiții minime de îndeplinit pentru funcția didactică de profesor universitar

- Minim 2 materiale didactice în format tipărit sau electronic, care posedă număr ISSN/ISBN, lectorate (cursuri/ manuale/cărți de specialitate/monografii, etc.) editate ca autor sau co-autor de la ultima promovare dar nu mai mult de 10 ani (comisia de concurs are dreptul de a evalua actualitatea materialului didactic, și de a exclude din punctaj unele materiale considerate neactuale)

1. E. Horobeț, *Valószínűségsszámítás és statisztika, alkalmazások az informatika és a személyes pénzügyek területén*, Editura Pro Universitaria, Romania, 2025, ISBN: 978-606-26-2119-3.

2. E. Horobeț, *Absztrakt és lineáris algebra (informatikus hallgatóknak)*, Letras Publishing, Romania, 2022, ISBN: 9786060716051.

- Minimum 20 puncte pentru sprijinirea activităților științifice studentești obținut conform *grilei de punctaj 2* în ultimii 5 ani sau minimum 5 lucrări de licență/diplomă sau disertații conduse în ultimii 5 ani

105 puncte conform grilei

- Îndeplinirea standardelor minime corespunzătoare domeniului postului stabilite prin Ordinul Ministrului nr. 6129/2016.

Grilă de punctaj 2. pentru evaluarea activității de sprijinire a activităților științifice studentești (îndrumare cercuri științifice, evaluarea studenților

participanți la conferințe sau concursuri științifice studențești, organizarea de conferințe sau concursuri)

Conferință și/sau concurs național	Conferință și/sau concurs internațional
Organizare conferință științifică studențească și/sau concurs național 5x nr. participare	Organizare conferință științifică studențească și/sau concurs internațional 10x nr. Participare 1. Concursul Internațional de Matematică a Liceelor Maghiare (NMMV), Târgu-Mureș, 2019 (10 pt) 2. Concursul Internațional de Matematică a Gimnaziilor Maghiare (NMMV 5-8), Târgu-Mureș, 2025 (10 pt)
Participarea în juriul unor conferințe științifice studențești/ concurs local 10x nr. participare, conferință științifică studențească/ concurs național 20x nr. Participare 1. Membru juriu la Conferința Locală Științifică a Studenților, secția Informatică (Sapientia TDK) 2023 (20 pt.)	Participarea în juriul unor conferințe științifice studențești / concurs internațional 30x nr. Participare 1. Membru juriu la Conferința Națională Științifică a Studenților, secția Informatică (OTDK) 2023 (30 pt.)
Evaluarea lucrărilor științifice studențești 5x nr. lucrare evaluată (local, național)	Evaluarea lucrărilor științifice studențești 10x nr. lucrare evaluată (internațional)
Activitate de conducător științific a studenților la conferințe sau concursuri studențești	
5x nr. Participare 2020: Majla Nándor TDK (5 pt.) 2021: Majla Nándor MTDK (5 pt.)	10x nr. participare
6x nr. mențiune	12x nr. mențiune
7x nr. Locul III 2023: Jakab Etele MTDK (7 pt.)	14x nr. Locul III
8x nr. Locul II 2025: Hadnagy Lóránt, MTDK (8 pt.)	16x nr. Locul II
10x nr. Locul I 2025: Hadnagy Lóránt, TDK (10 pt.)	20x nr. Locul I