

Publications

Books

- [1] K. Hormann and N. Sukumar, editors. *Generalized Barycentric Coordinates in Computer Graphics and Computational Mechanics*. Taylor & Francis, CRC Press, Boca Raton, 2017.

Reviewed Journal Papers

- [2] E. Cirillo, K. Hormann, and J. Sidon. [Convergence rates of a Hermite generalization of Floater–Hormann interpolants](#). *Journal of Computational and Applied Mathematics*, 371:Article 112624, 9 pages, June 2020.
- [3] K. Hormann and J. Zheng. [Algebraic and geometric characterizations of a class of planar quartic curves with rational offsets](#). *Computer Aided Geometric Design*, 79:Article 101873, 15 pages, May 2020.
- [4] C. Deng, Q. Chang, and K. Hormann. [Iterative coordinates](#). *Computer Aided Geometric Design*, 79:Article 101861, 13 pages, May 2020. Proceedings of GMP.
- [5] E. L. Foster, K. Hormann, and R. T. Popa. [Clipping simple polygons with degenerate intersections](#). *Computers & Graphics: X*, 2:Article 100007, 10 pages, December 2019.
- [6] Z. Ye, Y.-J. Liu, J. Zheng, K. Hormann, and Y. He. [DE-Path: A differential-evolution-based method for computing energy-minimizing paths on surfaces](#). *Computer-Aided Design*, 114:73–81, September 2019.
- [7] D. Anisimov, K. Hormann, and T. Schneider. [Behaviour of exponential three-point coordinates at the vertices of convex polygons](#). *Journal of Computational and Applied Mathematics*, 350:114–129, April 2019.
- [8] E. Cirillo and K. Hormann. [On the Lebesgue constant of barycentric rational Hermite interpolants at equidistant nodes](#). *Journal of Computational and Applied Mathematics*, 349:292–301, March 2019.
- [9] E. Cirillo and K. Hormann. [An iterative approach to barycentric rational Hermite interpolation](#). *Numerische Mathematik*, 140(4):939–962, December 2018.
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- [12] C. Conti, C. Deng, and K. Hormann. [Symmetric four-directional bivariate pseudo-spline symbols](#). *Computer Aided Geometric Design*, 60:10–17, February 2018.
- [13] F. Dell’Accio, F. Di Tommaso, and K. Hormann. [Reconstruction of a function from Hermite–Birkhoff data](#). *Applied Mathematics and Computation*, 318:51–69, February 2018.
- [14] P. Zulian, T. Schneider, K. Hormann, and R. Krause. [Parametric finite elements with bijective mappings](#). *BIT Numerical Mathematics*, 57(4):1185–1203, December 2017.
- [15] E. Cirillo, K. Hormann, and J. Sidon. [Convergence rates of derivatives of Floater–Hormann interpolants for well-spaced nodes](#). *Applied Numerical Mathematics*, 116:108–118, June 2017.

- [16] D. Anisimov, D. Panozzo, and K. Hormann. [Blended barycentric coordinates](#). *Computer Aided Geometric Design*, 52–53:205–216, March–April 2017. Proceedings of GMP.
- [17] K. Hormann and J. Kosinka. [Discretizing Wachspress kernels is safe](#). *Computer Aided Geometric Design*, 52–53:126–134, March–April 2017. Proceedings of GMP.
- [18] R. Schärfig, M. Stamminger, and K. Hormann. [Creating light atlases with multi-bounce indirect illumination](#). *Computers & Graphics*, 55:97–107, April 2016.
- [19] D. Anisimov, C. Deng, and K. Hormann. [Subdividing barycentric coordinates](#). *Computer Aided Geometric Design*, 43:172–185, March 2016. Proceedings of GMP.
- [20] K. Hormann and S. Schaefer. [Pyramid algorithms for barycentric rational interpolation](#). *Computer Aided Geometric Design*, 42:1–6, February 2016. Short communication.
- [21] F. Dell’Accio, F. Di Tommaso, and K. Hormann. [On the approximation order of triangular Shepard interpolation](#). *IMA Journal of Numerical Analysis*, 36(1):359–379, January 2016.
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- [23] T. Schneider and K. Hormann. [Smooth bijective maps between arbitrary planar polygons](#). *Computer Aided Geometric Design*, 35–36:243–354, May 2015. Proceedings of GMP.
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- [25] J. Zhang, B. Deng, Z. Liu, G. Patanè, S. Bouaziz, K. Hormann, and L. Liu. [Local barycentric coordinates](#). *ACM Transactions on Graphics*, 33(6):Article 188, 12 pages, November 2014. Proceedings of SIGGRAPH Asia.
- [26] M. Saba, T. Schneider, R. Scateni, and K. Hormann. [Curvature-based blending of closed planar curves](#). *Graphical Models*, 76(5):263–272, September 2014. Proceedings of GMP.
- [27] C. Deng and K. Hormann. [Pseudo-spline subdivision surfaces](#). *Computer Graphics Forum*, 33(5):227–236, August 2014. Proceedings of SGP.
- [28] L. Váša, S. Marras, K. Hormann, and G. Brunnett. [Compressing dynamic meshes with geometric Laplacians](#). *Computer Graphics Forum*, 33, April 2014. Proceedings of Eurographics.
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Course Notes

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Reviewed Conference Papers

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Reviewed Software

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Proceedings and Special Issues

- [90] M. S. Floater, K. Hormann, and N. Sukumar, editors. *Generalized Barycentric Coordinates*. Special issue of *Computer Aided Geometric Design*, 74–77, February 2020.
- [91] K. Hormann and O. Staadt, editors. *Eurographics 2015: State of the Art Reports*, Zürich, Switzerland, May 2015. Special issue of *Computer Graphics Forum*, 34(2), May 2015.
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Technical Reports

- [98] S. Marras and K. Hormann. [Exploring compression in edge shape space](#). Technical Report USI-INF-TR-2015-4, Faculty of Informatics, Università della Svizzera italiana, October 2015.
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- [101] M. Wagner, K. Hormann and G. Greiner. [\$C^2\$ -continuous surface reconstruction with piecewise polynomial patches](#). Technical Report 2, Department of Computer Science 9, University of Erlangen-Nürnberg, February 2003.
- [102] K. Hormann. [An easy way of detecting subdivision connectivity in a triangle mesh](#). Technical Report 3, Department of Computer Science 9, University of Erlangen-Nürnberg, May 2002.

Theses

- [103] K. Hormann. [Theory and Applications of Parameterizing Triangulations](#). PhD thesis, Department of Computer Science, University of Erlangen-Nürnberg, November 2001.
- [104] K. Hormann. [Glatte Approximation mit hierarchischen Splineflächen](#). Diploma thesis, Department of Mathematics, University of Erlangen-Nürnberg, May 1997.

Publication Impact

Citations

Number of citations¹ for my ten most cited papers:

citations	paper
1062	Surface parameterization: A tutorial and survey [62]
371	MIPS: An efficient global parametrization method [84]
351	Mesh parameterization: Theory and practice [66]
308	The point in polygon problem for arbitrary polygons [58]
279	PolyCube-Maps [56]
271	Mean value coordinates for arbitrary planar polygons [54]
258	Barycentric rational interpolation with no poles and high rates of approximation [52]
235	Efficient clipping of arbitrary polygons [60]
216	A general construction of barycentric coordinates over convex polygons [55]
207	Optimizing 3D triangulations using discrete curvature analysis [81]

Impact Factors

Impact factors² of the journals I have published in:

impact factor	journal	papers
6.495	ACM Transactions on Graphics	[25,42,54,56,60]
4.087	Journal of the Mechanics and Physics of Solids	[53]
3.780	IEEE Transactions on Visualization and Computer Graphics	[50]
3.736	Physical Review B	[45]
3.092	Applied Mathematics and Computation	[13]
3.049	Computer-Aided Design	[6,24,59]
2.964	Applied and Computational Harmonic Analysis	[43]
2.397	IMA Journal on Numerical Analysis	[21]
2.373	Computer Graphics Forum	[11,27,28,29,30,37,40,44,48]
2.137	Numerische Mathematik	[9,35,52]
1.883	Journal of Computational and Applied Mathematics	[2,7,8,39]
1.717	Journal of Computing and Information Science in Engineering	[57]
1.678	Applied Numerical Mathematics	[15]
1.638	Advances in Computational Mathematics	[55]
1.451	BIT Numerical Mathematics	[14]
1.421	Computer Aided Geometric Design	[3,4,10,12,16,17,19,20,22,23,31,32,34,46,51]
1.415	The Visual Computer	[49]
1.302	Computers & Graphics	[5,18]
1.300	Dolomites Research Notes on Approximation	[38]
1.022	Journal of Approximation Theory	[33,41,47]
0.727	Graphical Models	[26,36]
0.343	Computational Geometry	[58]

¹source: *Google Scholar* as of May 11, 2020, scholar.google.com

²source: *Journal Citation Reports 2019*, Clarivate Analytics