Peter Gritzmann

List of Publications by Year
in descending order

31 papers	**707** citations	623734 **14** h-index	552781 **26** g-index
33 all docs	**33** docs citations	**33** times ranked	**381** citing authors

#	Article	IF	Citations
1	A knowledge-based automated driving approach for flexible production of individualized sheet metal parts. Knowledge-Based Systems, 2022, 244, 108558.	7.1	2
2	Predicting show rates in air cargo transport. , 2020, , .		2
3	On Polyatomic Tomography over Abelian Groups: Some Remarks on Consistency, Tree Packings and Complexity. Discrete and Computational Geometry, 2020, 64, 290-303.	0.6	0
4	13. On the reconstruction of static and dynamic discrete structures. , 2019, , 297-342.		3
5	On the Reverse Loomisâ€"Whitney Inequality. Discrete and Computational Geometry, 2018, 60, 115-144.	0.6	5
6	Dynamic discrete tomography. Inverse Problems, 2018, 34, 034003.	2.0	7
7	On Double-Resolution Imaging and Discrete Tomography. SIAM Journal on Discrete Mathematics, 2018, 32, 1369-1399.	0.8	7
8	An LP-based k-means algorithm for balancing weighted point sets. European Journal of Operational Research, 2017, 263, 349-355.	5.7	22
9	Constrained clustering via diagrams: A unified theory and its application to electoral district design. European Journal of Operational Research, 2017, 263, 18-34.	5.7	16
10	Reconstructing Binary Matrices under Window Constraints from their Row and Column Sums. Fundamenta Informaticae, 2017, 155, 321-340.	0.4	5
11	Algorithmic Economics und Operations Research. , 2017, , 129-139.		0
12	Measurements of 3D slip velocities and plasma column lengths of a gliding arc discharge. Applied Physics Letters, 2015, 106, .	3.3	53
13	Generalized balanced power diagrams for 3D representations of polycrystals. Philosophical Magazine, 2015, 95, 1016-1028.	1.6	31
14	3D particle tracking velocimetry using dynamic discrete tomography. Computer Physics Communications, 2015, 187, 130-136.	7.5	15
15	Geometric Clustering for the Consolidation of Farmland and Woodland. Mathematical Intelligencer, 2014, 36, 37-44.	0.2	25
16	On Optimal Weighted Balanced Clusterings: Gravity Bodies and Power Diagrams. SIAM Journal on Discrete Mathematics, 2012, 26, 415-434.	0.8	24
17	Uniqueness in Discrete Tomography: Three Remarks and a Corollary. SIAM Journal on Discrete Mathematics, 2011, 25, 1589-1599.	0.8	27
18	Constrained Minimum-k-Star Clustering and its application to the consolidation of farmland. Operational Research, 2011, 11, 1-17.	2.0	13

#	Article	IF	Citations
19	On Clustering Bodies: Geometry and Polyhedral Approximation. Discrete and Computational Geometry, 2010, 44, 508-534.	0.6	10
20	On Stability, Error Correction, and Noise Compensation in Discrete Tomography. SIAM Journal on Discrete Mathematics, 2006, 20, 227-239.	0.8	32
21	A Quadratic Optimization Model for the Consolidation of Farmland by Means of Lend-Lease Agreements. Operations Research Proceedings: Papers of the Annual Meeting = Vorträge Der Jahrestagung / DGOR, 2004, , 324-331.	0.1	11
22	Reconstructing Crystalline Structures from Few Images Under High Resolution Transmission Electron Microscopy. , 2003, , 441-459.		7
23	Deterministic and randomized polynomial‐time approximation of radii. Mathematika, 2001, 48, 63-105.	0.5	30
24	Stability and Instability in Discrete Tomography. Lecture Notes in Computer Science, 2001, , 175-186.	1.3	19
25	On the Algorithmic Complexity of Minkowski's Reconstruction Theorem. Journal of the London Mathematical Society, 1999, 59, 1081-1100.	1.0	8
26	Uniqueness and Complexity in Discrete Tomography. Applied and Numerical Harmonic Analysis, 1999, , 85-113.	0.3	35
27	On The Complexity of Computing Mixed Volumes. SIAM Journal on Computing, 1998, 27, 356-400.	1.0	54
28	On the reconstruction of finite lattice sets from their X-rays. Lecture Notes in Computer Science, 1997, , 19-32.	1.3	9
29	Discrete tomography: Determination of finite sets by X-rays. Transactions of the American Mathematical Society, 1997, 349, 2271-2295.	0.9	137
30	Polytope Projection and Projection Polytopes. American Mathematical Monthly, 1996, 103, 742-755.	0.3	13
31	On the complexity of some basic problems in computational convexity: I. Containment problems. Discrete Mathematics, 1994, 136, 129-174.	0.7	79