

Ryszard Kozera

List of Publications by Year in descending order

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Version: 2024-02-01

77
papers

568
citations

759055

12
h-index

752573

20
g-index

81
all docs

81
docs citations

81
times ranked

160
citing authors

#	ARTICLE	IF	CITATIONS
1	Existence and uniqueness in photometric stereo. <i>Applied Mathematics and Computation</i> , 1991, 44, 1-103.	1.4	45
2	Impossible and ambiguous shading patterns. <i>International Journal of Computer Vision</i> , 1992, 7, 119-126.	10.9	39
3	Nonlinearities and Noise Reduction in 3-Source Photometric Stereo. <i>Journal of Mathematical Imaging and Vision</i> , 2003, 18, 119-127.	0.8	30
4	Uniqueness in Shape from Shading Revisited. <i>Journal of Mathematical Imaging and Vision</i> , 1997, 7, 123-138.	0.8	29
5	ON SHAPE RECOVERY FROM TWO SHADING PATTERNS. <i>International Journal of Pattern Recognition and Artificial Intelligence</i> , 1992, 06, 673-698.	0.7	27
6	Piecewise-quadratics and exponential parameterization for reduced data. <i>Applied Mathematics and Computation</i> , 2013, 221, 620-638.	1.4	23
7	More-or-less-uniform sampling and lengths of curves. <i>Quarterly of Applied Mathematics</i> , 2003, 61, 475-484.	0.5	22
8	Shading without shape. <i>Quarterly of Applied Mathematics</i> , 1992, 50, 27-38.	0.5	21
9	The Impact of the TPM Weights Distribution on Network Synchronization Time. <i>Lecture Notes in Computer Science</i> , 2015, , 451-460.	1.0	20
10	Genetic Characterization of a Novel Composite Transposon Carrying <i>armA</i> and <i>aac(6)-Ib</i> Genes in an <i>Escherichia coli</i> Isolate from Egypt. <i>Polish Journal of Microbiology</i> , 2017, 66, 163-169.	0.6	20
11	Circularly symmetric eikonal equations and non-uniqueness in computer vision. <i>Journal of Mathematical Analysis and Applications</i> , 1992, 165, 192-215.	0.5	17
12	On complete integrals and uniqueness in shape from shading. <i>Applied Mathematics and Computation</i> , 1995, 73, 1-37.	1.4	17
13	REDUCED DATA FOR CURVE MODELING – APPLICATIONS IN GRAPHICS, COMPUTER VISION AND PHYSICS. <i>Advances in Science and Technology Research Journal</i> , 2013, 7, 28-35.	0.4	13
14	<i>Lawn-mowing algorithm for noisy gradient vector fields</i> . , 1999, 3811, 305.		12
15	Interpolating Sporadic Data. <i>Lecture Notes in Computer Science</i> , 2002, , 613-625.	1.0	12
16	Length Estimation for Curves with Different Samplings. <i>Lecture Notes in Computer Science</i> , 2001, , 339-351.	1.0	12
17	Denosing Images: Non-linear Leap-Frog for Shape and Light-Source Recovery. <i>Lecture Notes in Computer Science</i> , 2003, , 419-436.	1.0	10
18	Integrated multi-channel optical system for bacteria characterization and its potential use for monitoring of environmental bacteria. <i>Biomedical Optics Express</i> , 2019, 10, 1165.	1.5	10

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19	DISTRIBUTION OF THE TREE PARITY MACHINE SYNCHRONIZATION TIME. Advances in Science and Technology Research Journal, 2013, 7, 20-27.	0.4	10
20	<title>2D leapfrog algorithm for optimal surface reconstruction</title>. , 1999, 3811, 317.		9
21	The 2-D Leap-Frog: Integrability, Noise, and Digitization. Lecture Notes in Computer Science, 2001, , 352-364.	1.0	9
22	Threshold Method of Detecting Long-Time TPM Synchronization. Lecture Notes in Computer Science, 2013, , 241-252.	1.0	8
23	Piecewise-Quadratics and Reparameterizations for Interpolating Reduced Data. Lecture Notes in Computer Science, 2015, , 260-274.	1.0	7
24	A Modified Complete Spline Interpolation and Exponential Parameterization. Lecture Notes in Computer Science, 2015, , 98-110.	1.0	7
25	Optimal Knots Selection for Sparse Reduced Data. Lecture Notes in Computer Science, 2016, , 3-14.	1.0	7
26	Trajectory Estimation for Exponential Parameterization and Different Samplings. Lecture Notes in Computer Science, 2013, , 430-441.	1.0	6
27	ON MATHEMATICAL MODELLING OF SYNTHETIC MEASURES. Mathematical Modelling and Analysis, 2018, 23, 699-711.	0.7	6
28	Length Estimation for Curves with $\hat{\mu}$ -Uniform Sampling. Lecture Notes in Computer Science, 2001, , 518-526.	1.0	6
29	Parameterizations and Lagrange Cubics for Fitting Multidimensional Data. Lecture Notes in Computer Science, 2020, , 124-140.	1.0	5
30	Computerized Classification System for the Identification of Soil Microorganisms. Applied Mathematics and Information Sciences, 2016, 10, 21-31.	0.7	5
31	Exponential Parameterization and $\hat{\mu}$ -Uniformly Sampled Reduced Data. Applied Mathematics and Information Sciences, 2016, 10, 33-48.	0.7	5
32	Computerized classification system for the identification of soil microorganisms. AIP Conference Proceedings, 2015, , .	0.3	4
33	A Modified Hermite Interpolation with Exponential Parameterization. Mathematics in Computer Science, 2019, 13, 143-155.	0.2	4
34	Exponential parameterization to fit reduced data. Applied Mathematics and Computation, 2021, 391, 125645.	1.4	4
35	Generic Case of Leap-Frog Algorithm for Optimal Knots Selection in Fitting Reduced Data. Lecture Notes in Computer Science, 2021, , 337-350.	1.0	4
36	Orthogonal Illuminations in Two Light-Source Photometric Stereo. Lecture Notes in Computer Science, 2016, , 402-415.	1.0	4

#	ARTICLE	IF	CITATIONS
37	Non-linearity and Non-convexity in Optimal Knots Selection for Sparse Reduced Data. Lecture Notes in Computer Science, 2017, , 257-271.	1.0	4
38	Convergence Orders in Length Estimation with Exponential Parameterization and $\hat{\mu}$ -Uniformly Sampled Reduced Data. Applied Mathematics and Information Sciences, 2016, 10, 107-115.	0.7	4
39	Robust Surface Fitting from Two Views using Restricted Correspondence. Journal of Mathematical Imaging and Vision, 2009, 34, 200-221.	0.8	3
40	Application of computer algebra for the reconstruction of surfaces from their photometric stereo images. Programming and Computer Software, 2017, 43, 98-104.	0.5	3
41	Application of Computer Algebra to Photometric Stereo with Two Light Sources. Programming and Computer Software, 2018, 44, 112-119.	0.5	3
42	SMOOTH INTERPOLATION WITH CUMULATIVE CHORD CUBICS. , 2006, , 87-94.		3
43	NOISE REDUCTION IN PHOTOMETRIC STEREO WITH NON-DISTANT LIGHT SOURCES. , 2006, , 103-110.		3
44	Fitting Dense and Sparse Reduced Data. Advances in Intelligent Systems and Computing, 2019, , 3-17.	0.5	3
45	Quartic Orders and Sharpness in Trajectory Estimation for Smooth Cumulative Chord Cubics. Lecture Notes in Computer Science, 2014, , 9-16.	1.0	3
46	CONVERGENCE ORDER IN TRAJECTORY ESTIMATION BY PIECEWISE-CUBICS AND EXPONENTIAL PARAMETERIZATION. Mathematical Modelling and Analysis, 2019, 24, 72-94.	0.7	3
47	Length Estimation for Exponential Parameterization and $\hat{\mu}$ -Uniform Samplings. Lecture Notes in Computer Science, 2014, , 33-46.	1.0	3
48	Alternative Method of Measuring Concentration. Applied Mathematics and Information Sciences, 2016, 10, 11-19.	0.7	3
49	Classification of Soil Bacteria Based on Machine Learning and Image Processing. Lecture Notes in Computer Science, 2022, , 263-277.	1.0	3
50	Efficient numerical algorithms for constructing orthogonal generalized doubly stochastic matrices. Applied Numerical Mathematics, 2019, 142, 16-27.	1.2	2
51	A Note on Modified Hermite Interpolation. Mathematics in Computer Science, 2020, 14, 223-239.	0.2	2
52	SHAPE RECOVERY OF A STRICTLY CONVEX FROM N-VIEWS SOLID. , 2006, , 57-65.		2
53	Cumulative Chord Piecewise-Quartics for Length and Curve Estimation. Lecture Notes in Computer Science, 2003, , 697-705.	1.0	2
54	Outlier Removal in 2D Leap Frog Algorithm. Lecture Notes in Computer Science, 2012, , 146-157.	1.0	2

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55	APPLICATION OF THE MINIRHIZOTRON TECHNIQUE TO STUDYING THE ROOTS OF FRUIT PLANTS. <i>Advances in Science and Technology Research Journal</i> , 2013, 7, 45-53.	0.4	2
56	Conjugate Gradient in Noisy Photometric Stereo. <i>Lecture Notes in Computer Science</i> , 2014, , 338-346.	1.0	2
57	An algorithm for a linear shape-from-shading problem. <i>Lecture Notes in Computer Science</i> , 1995, , 408-415.	1.0	2
58	DISTANCE OF THE INITIAL WEIGHTS OF TREE PARITY MACHINE DRAWN FROM DIFFERENT DISTRIBUTIONS. <i>Advances in Science and Technology Research Journal</i> , 0, 9, 137-142.	0.4	2
59	Second-Order Algebraic Surfaces and Two Image Photometric Stereo. <i>Lecture Notes in Computer Science</i> , 2018, , 234-247.	1.0	2
60	Non-Generic Case of Leap-Frog for Optimal Knots Selection in Fitting Reduced Data. <i>Lecture Notes in Computer Science</i> , 2022, , 341-354.	1.0	2
61	Recognising Algebraic Surfaces from Two Outlines. <i>Journal of Mathematical Imaging and Vision</i> , 2008, 30, 181-193.	0.8	1
62	Modelling reduced sparse data. <i>Proceedings of SPIE</i> , 2016, , .	0.8	1
63	A Knowledge-Based Technique for Constraints Satisfaction in Manpower Allocation. <i>Lecture Notes in Computer Science</i> , 2003, , 100-108.	1.0	1
64	Evaluation of Numerical Solution Schemes for Differential Equations. <i>Computational Imaging and Vision</i> , 2000, , 153-166.	0.6	1
65	Discrete Analogs of the Comparison Theorem and Two-Sided Estimates of Solution of Parabolic Equations. <i>Applied Mathematics and Information Sciences</i> , 2016, 10, 83-92.	0.7	1
66	Integrated Parallel 2D-Leap-Frog Algorithm for Noisy Three Image Photometric Stereo. <i>Lecture Notes in Computer Science</i> , 2016, , 73-87.	1.0	1
67	ON THE CHOICE OF SYNTHETIC MEASURES FOR ASSESSING ECONOMIC EFFECTS. <i>Metody IloÅciowe W Badaniach Ekonomicznych</i> , 2017, 18, 7-17.	0.1	1
68	Preface of the "Workshop on numerical and symbolic computation in surface and curve modeling". <i>AIP Conference Proceedings</i> , 2015, , .	0.3	0
69	Preface of the "Workshop on Numerical and Symbolic Computation in Computer Vision and Data Management WNSCCVDM 2015". <i>AIP Conference Proceedings</i> , 2016, , .	0.3	0
70	Preface on Numerical Computation in 2D & 3D Data Analysis. <i>AIP Conference Proceedings</i> , 2017, , .	0.3	0
71	Application of Computer Algebra to the Reconstruction of Surface from Its Photometric Images. <i>Programming and Computer Software</i> , 2018, 44, 546-553.	0.5	0
72	Workshop on Numerical Computation in 2D & 3D Data Analysis, WNCDA 2017 Symposium 18, ICNAAM 2017. <i>AIP Conference Proceedings</i> , 2018, , .	0.3	0

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73	Numerical properties of block Cholesky-like methods for solving symmetric quasi-definite linear systems. AIP Conference Proceedings, 2018, , .	0.3	0
74	Sharpness in Trajectory Estimation for Planar Four-points Piecewise-Quadratic Interpolation. Lecture Notes in Computer Science, 2014, , 271-285.	1.0	0
75	Recent uniqueness results in shape from shading. , 1997, , 169-179.		0
76	Lagrange Piecewise-Quadratic Interpolation Based on Planar Unordered Reduced Data. Lecture Notes in Computer Science, 2015, , 423-434.	1.0	0
77	MODELLING OF WEAR UNDER THE CONDITIONS OF HIGH SLIDING SPEEDS. Tribologia, 2018, 280, 113-119.	0.0	0