

Alfred M Bruckstein

List of Publications by Year in descending order

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174
papers

8,213
citations

101496

36
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51562

86
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182
all docs

182
docs citations

182
times ranked

5757
citing authors

#	ARTICLE	IF	CITATIONS
1	From Sparse Solutions of Systems of Equations to Sparse Modeling of Signals and Images. SIAM Review, 2009, 51, 34-81.	4.2	1,972
2	Dictionaries for Sparse Representation Modeling. Proceedings of the IEEE, 2010, 98, 1045-1057.	16.4	1,018
3	A generalized uncertainty principle and sparse representation in pairs of bases. IEEE Transactions on Information Theory, 2002, 48, 2558-2567.	1.5	486
4	Distributed covering by ant-robots using evaporating traces. IEEE Transactions on Automation Science and Engineering, 1999, 15, 918-933.	2.4	211
5	On the Uniqueness of Nonnegative Sparse Solutions to Underdetermined Systems of Equations. IEEE Transactions on Information Theory, 2008, 54, 4813-4820.	1.5	210
6	On the uniqueness of overcomplete dictionaries, and a practical way to retrieve them. Linear Algebra and Its Applications, 2006, 416, 48-67.	0.4	198
7	Regularized Laplacian Zero Crossings as Optimal Edge Integrators. International Journal of Computer Vision, 2003, 53, 225-243.	10.9	193
8	Pruning Medial Axes. Computer Vision and Image Understanding, 1998, 69, 156-169.	3.0	176
9	Skeletonization via Distance Maps and Level Sets. Computer Vision and Image Understanding, 1995, 62, 382-391.	3.0	142
10	Down-scaling for better transform compression. IEEE Transactions on Image Processing, 2003, 12, 1132-1144.	6.0	138
11	Tracking Level Sets by Level Sets: A Method for Solving the Shape from Shading Problem. Computer Vision and Image Understanding, 1995, 62, 47-58.	3.0	134
12	Implementing continuous-scale morphology via curve evolution. Pattern Recognition, 1993, 26, 1363-1372.	5.1	129
13	Differential Methods in Inverse Scattering. SIAM Journal on Applied Mathematics, 1985, 45, 312-335.	0.8	123
14	On shape from shading. Computer Vision, Graphics, and Image Processing, 1988, 44, 139-154.	1.1	97
15	Sub-pixel distance maps and weighted distance transforms. Journal of Mathematical Imaging and Vision, 1996, 6, 223-233.	0.8	97
16	A Distributed Ant Algorithm for Efficiently Patrolling a Network. Algorithmica, 2003, 37, 165-186.	1.0	97
17	Over-Parameterized Variational Optical Flow. International Journal of Computer Vision, 2008, 76, 205-216.	10.9	95
18	Integrability disambiguates surface recovery in two-image photometric stereo. International Journal of Computer Vision, 1990, 5, 105-113.	10.9	91

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19	Analysis of Two-Dimensional Non-Rigid Shapes. International Journal of Computer Vision, 2008, 78, 67-88.	10.9	89
20	Cooperative Cleaners: A Study in Ant Robotics. International Journal of Robotics Research, 2008, 27, 127-151.	5.8	88
21	Partial Similarity of Objects, or How to Compare a Centaur to a Horse. International Journal of Computer Vision, 2009, 84, 163-183.	10.9	83
22	Orientation-Matching Minimization for Image Denoising and inpainting. International Journal of Computer Vision, 2011, 92, 308-324.	10.9	82
23	Diffusions and Confusions in Signal and Image Processing. Journal of Mathematical Imaging and Vision, 2001, 14, 195-209.	0.8	81
24	K-SVD and its non-negative variant for dictionary design. , 2005, , .		75
25	Efficiently searching a graph by a smell-oriented vertex process. Annals of Mathematics and Artificial Intelligence, 1998, 24, 211-223.	0.9	72
26	Why the ant trails look so straight and nice. Mathematical Intelligencer, 1993, 15, 59-62.	0.1	68
27	Efficient cooperative search of smart targets using UAV Swarms. Robotica, 2008, 26, 551-557.	1.3	67
28	Near Field Photometric Stereo with Point Light Sources. SIAM Journal on Imaging Sciences, 2014, 7, 2732-2770.	1.3	65
29	Shape from shading: Level set propagation and viscosity solutions. International Journal of Computer Vision, 1995, 16, 107-133.	10.9	63
30	Efficient computation of adaptive threshold surfaces for image binarization. Pattern Recognition, 2006, 39, 89-101.	5.1	57
31	Uniform multi-agent deployment on a ring. Theoretical Computer Science, 2011, 412, 783-795.	0.5	56
32	Postprocessing of Compressed Images via Sequential Denoising. IEEE Transactions on Image Processing, 2016, 25, 3044-3058.	6.0	55
33	Similarity-invariant signatures for partially occluded planar shapes. International Journal of Computer Vision, 1992, 7, 271-285.	10.9	51
34	EVOLUTIONS OF PLANAR POLYGONS. International Journal of Pattern Recognition and Artificial Intelligence, 1995, 09, 991-1014.	0.7	50
35	Global Shape from Shading. Computer Vision and Image Understanding, 1995, 62, 360-369.	3.0	48
36	Multivalued distance maps for motion planning on surfaces with moving obstacles. IEEE Transactions on Automation Science and Engineering, 1998, 14, 427-436.	2.4	47

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37	On minimal energy trajectories. <i>Computer Vision, Graphics, and Image Processing</i> , 1990, 49, 283-296.	1.1	42
38	RGBD-fusion: Real-time high precision depth recovery. , 2015, , .		41
39	Holographic representations of images. <i>IEEE Transactions on Image Processing</i> , 1998, 7, 1583-1597.	6.0	36
40	Row Straightening via local interactions. <i>Circuits, Systems, and Signal Processing</i> , 1997, 16, 287-305.	1.2	34
41	From Ants to A(ge)nts: A Special Issue on Ant-Robotics. <i>Annals of Mathematics and Artificial Intelligence</i> , 2001, 31, 1-5.	0.9	34
42	Gathering Multiple Robotic A(ge)nts with Limited Sensing Capabilities. <i>Lecture Notes in Computer Science</i> , 2004, , 142-153.	1.0	31
43	Digi D Ã¼rer â€” a digital engraving system. <i>Visual Computer</i> , 1994, 10, 277-292.	2.5	30
44	ANTS: Agents on Networks, Trees, and Subgraphs. <i>Future Generation Computer Systems</i> , 2000, 16, 915-926.	4.9	30
45	Epi-convergence of discrete elastica. <i>Applicable Analysis</i> , 2001, 79, 137-171.	0.6	30
46	Optimum Fiducials Under Weak Perspective Projection. <i>International Journal of Computer Vision</i> , 1999, 35, 223-244.	10.9	29
47	Static and expanding grid coverage with ant robots: Complexity results. <i>Theoretical Computer Science</i> , 2011, 412, 4661-4674.	0.5	29
48	Multi-agent Cooperative Cleaning of Expanding Domains. <i>International Journal of Robotics Research</i> , 2011, 30, 1037-1071.	5.8	29
49	Global Shape from Shading. <i>Computer Vision and Image Understanding</i> , 1996, 64, 188-189.	3.0	28
50	Motion-Compensated Coding and Frame-Rate Up-Conversion: Models and Analysis. <i>IEEE Transactions on Image Processing</i> , 2015, 24, 1-1.	6.0	28
51	Heteroscedastic Hough Transform (HtHT): An Efficient Method for Robust Line Fitting in the â€”Errors in the Variablesâ€” Problem. <i>Computer Vision and Image Understanding</i> , 2000, 78, 69-83.	3.0	25
52	Multi-a(ge)nt Graph Patrolling and Partitioning. , 2009, , .		25
53	Variational approach to moirÃ© pattern synthesis. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2001, 18, 1371.	0.8	24
54	Sparsity Based Methods for Overparameterized Variational Problems. <i>SIAM Journal on Imaging Sciences</i> , 2015, 8, 2133-2159.	1.3	23

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55	The Social Amplifierâ€™Reaction of Human Communities to Emergencies. Journal of Statistical Physics, 2013, 152, 399-418.	0.5	22
56	A Direct Differential Approach to Photometric Stereo with Perspective Viewing. SIAM Journal on Imaging Sciences, 2014, 7, 579-612.	1.3	22
57	Design of shapes for precise image registration. IEEE Transactions on Information Theory, 1998, 44, 3156-3162.	1.5	21
58	On differential invariants of planar curves and recognizing partially occluded planar shapes. Annals of Mathematics and Artificial Intelligence, 1995, 13, 227-250.	0.9	20
59	Analyzing and Synthesizing Images by Evolving Curves with the Osher-Sethian Method. International Journal of Computer Vision, 1997, 24, 37-55.	10.9	20
60	Sparse non-negative solution of a linear system of equations is unique. , 2008, , .		20
61	Cooperative Cleaners: A Study in Ant Robotics. , 1997, , 289-308.		20
62	Autonomous Multi-agent Cycle Based Patrolling. Lecture Notes in Computer Science, 2010, , 119-130.	1.0	20
63	Simple and Robust Binary Self-Location Patterns. IEEE Transactions on Information Theory, 2012, 58, 4884-4889.	1.5	19
64	Discrete elastica. Applicable Analysis, 2001, 78, 453-485.	0.6	18
65	On Projective Invariant Smoothing and Evolutions of Planar Curves and Polygons. , 1997, 7, 225-240.		16
66	Vertex-Ant-Walk â€™ A robust method for efficient exploration of faulty graphs. Annals of Mathematics and Artificial Intelligence, 2001, 31, 99-112.	0.9	16
67	Gathering Multiple Robotic Agents with Crude Distance Sensing Capabilities. Lecture Notes in Computer Science, 2008, , 72-83.	1.0	16
68	The Curve Axis. Computer Vision and Image Understanding, 1996, 63, 367-379.	3.0	15
69	Planar Shape Enhancement and Exaggeration. Graphical Models, 1998, 60, 112-124.	1.4	14
70	Title is missing!. International Journal of Computer Vision, 2000, 39, 131-139.	10.9	14
71	On isoperimetrically optimal polyforms. Theoretical Computer Science, 2008, 406, 146-159.	0.5	14
72	Head Movements for Depth Perception: Praying Mantis versus Pigeon. Autonomous Robots, 2005, 18, 21-42.	3.2	13

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73	On the uniqueness of non-negative sparse & redundant representations. Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing, 2008, , .	1.8	13
74	Two-robot source seeking with point measurements. Theoretical Computer Science, 2012, 457, 76-85.	0.5	13
75	Real-Time Depth Refinement for Specular Objects. , 2016, , .		13
76	Augmented-Lagrangian regularization of matrix-valued maps. Methods and Applications of Analysis, 2014, 21, 105-122.	0.1	13
77	Some matrix factorization identities for discrete inverse scattering. Linear Algebra and Its Applications, 1986, 74, 157-172.	0.4	12
78	A holographic transform domain image watermarking method. Circuits, Systems, and Signal Processing, 1998, 17, 361-389.	1.2	12
79	Swarm Intelligence â€” Searchers, Cleaners and Hunters. , 2006, , 93-132.		12
80	Multi-agent Physical A* with Large Pheromones. Autonomous Agents and Multi-Agent Systems, 2006, 12, 3-34.	1.3	12
81	Close-Range Photometric Stereo with Point Light Sources. , 2014, , .		12
82	Robotic Exploration, Brownian Motion and Electrical Resistance. Lecture Notes in Computer Science, 1998, , 116-130.	1.0	12
83	On Minimal Perimeter Polyminoes. Lecture Notes in Computer Science, 2006, , 17-28.	1.0	11
84	On discrete SchrÃ¶dinger equations and their twoâ€”component wave equation equivalents. Journal of Mathematical Physics, 1987, 28, 2914-2924.	0.5	10
85	The Complexity of Grid Coverage by Swarm Robotics. Lecture Notes in Computer Science, 2010, , 536-543.	1.0	10
86	Graph Isomorphisms and Automorphisms via Spectral Signatures. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2013, 35, 1985-1993.	9.7	9
87	Optimal Dynamic Coverage Infrastructure for Large-Scale Fleets of Reconnaissance UAVs. Studies in Computational Intelligence, 2018, , 207-238.	0.7	9
88	Detecting Anomalous Behaviors Using Structural Properties of Social Networks. Lecture Notes in Computer Science, 2013, , 433-440.	1.0	9
89	On holographic transform compression of images. International Journal of Imaging Systems and Technology, 2000, 11, 292-314.	2.7	8
90	Robust and Efficient Covering of Unknown Continuous Domains with Simple, Ant-Like A(ge)nts. International Journal of Robotics Research, 2008, 27, 815-831.	5.8	8

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91	Best bases for signal spaces. <i>Comptes Rendus Mathematique</i> , 2016, 354, 1155-1167.	0.1	8
92	Optimized Pre-Compensating Compression. <i>IEEE Transactions on Image Processing</i> , 2018, 27, 4798-4809.	6.0	8
93	Shape, Structure and Pattern Recognition. , 1995, , .		8
94	Parallel strategies for geometric probing. <i>Journal of Algorithms</i> , 1992, 13, 320-349.	0.9	7
95	Virtual marionettes: a system and paradigm for real-time 3D animation. <i>Visual Computer</i> , 2005, 21, 488-501.	2.5	7
96	On Similarity-Invariant Fairness Measures. <i>Lecture Notes in Computer Science</i> , 2005, , 456-467.	1.0	7
97	All triangulations are reachable via sequences of edge-flips: an elementary proof. <i>Computer Aided Geometric Design</i> , 2008, 25, 157-161.	0.5	7
98	Search for Smart Evaders With Swarms of Sweeping Agents. <i>IEEE Transactions on Robotics</i> , 2022, 38, 1080-1100.	7.3	7
99	Search for smart evaders with sweeping agents. <i>Robotica</i> , 2021, 39, 2210-2245.	1.3	7
100	Over-Parameterized Optical Flow Using a Stereoscopic Constraint. <i>Lecture Notes in Computer Science</i> , 2012, , 761-772.	1.0	7
101	A Subdivision Scheme for Continuous-Scale B-Splines and Affine-Invariant Progressive Smoothing. <i>Journal of Mathematical Imaging and Vision</i> , 1997, 7, 23-40.	0.8	6
102	Restoration by Compression. <i>IEEE Transactions on Signal Processing</i> , 2018, 66, 5833-5847.	3.2	6
103	Fast Regularization of Matrix-Valued Images. <i>Lecture Notes in Computer Science</i> , 2012, , 173-186.	1.0	6
104	The ubiquitous ellipse. <i>Acta Applicandae Mathematicae</i> , 1995, 38, 149-161.	0.5	5
105	On Over-Parameterized Model Based TV-Denoising. , 2007, , .		5
106	Solitonets: complex networks of interacting fields. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2009, 465, 1093-1101.	1.0	5
107	A "thermodynamic" approach to multi-robot cooperative localization. <i>Theoretical Computer Science</i> , 2012, 457, 59-75.	0.5	5
108	On the Gamma-convergence of some polygonal curvature functionals. <i>Applicable Analysis</i> , 2015, 94, 957-979.	0.6	5

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109	Continuous time gathering of agents with limited visibility and bearing-only sensing. Swarm Intelligence, 2017, 11, 271-293.	1.3	5
110	On Cyclic and Nearly Cyclic Multiagent Interactions in the Plane. , 2012, , 513-539.		5
111	Cooperative "Swarm Cleaning" of Stationary Domains. Studies in Computational Intelligence, 2018, , 15-49.	0.7	5
112	How to Track a Flying Saucer. Journal of Visual Communication and Image Representation, 1996, 7, 196-204.	1.7	4
113	On the use of shadows in stance recovery. International Journal of Imaging Systems and Technology, 2000, 11, 315-330.	2.7	4
114	On Variational Curve Smoothing and Reconstruction. Journal of Mathematical Imaging and Vision, 2010, 37, 183-203.	0.8	4
115	System-Aware Compression. , 2018, , .		4
116	Probabilistic pursuits on graphs. Theoretical Computer Science, 2019, 795, 459-477.	0.5	4
117	On Stochastic Broadcast Control of Swarms. Lecture Notes in Computer Science, 2016, , 257-264.	1.0	4
118	Causal Camera Motion Estimation by Condensation and Robust Statistics Distance Measures. Lecture Notes in Computer Science, 2004, , 119-131.	1.0	4
119	Fast Regularization of Matrix-Valued Images. Lecture Notes in Computer Science, 2014, , 19-43.	1.0	4
120	On the Reconstruction of Layered Media from Reflection Data. SIAM Journal on Matrix Analysis and Applications, 1991, 12, 24-40.	0.7	3
121	Image orientation detection with integrated human perception cues (or which way is up). , 0, , .		3
122	Swarm ant robotics for a dynamic cleaning problem " upper bounds. , 2009, , .		3
123	"Robot Cloud" gradient climbing with point measurements. Theoretical Computer Science, 2014, 547, 90-103.	0.5	3
124	Image restoration via successive compression. , 2016, , .		3
125	On Gathering and Control of Unicycle A(ge)nts with Crude Sensing Capabilities. IEEE Intelligent Systems, 2017, 32, 40-46.	4.0	3
126	A model for automatically tracing object boundaries. , 2017, , .		3

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127	Introduction to Swarm Search. <i>Studies in Computational Intelligence</i> , 2018, , 1-14.	0.7	3
128	Compression for Multiple Reconstructions. , 2018, , .		3
129	On High-Resolution Adaptive Sampling of Deterministic Signals. <i>Journal of Mathematical Imaging and Vision</i> , 2019, 61, 944-966.	0.8	3
130	Covering a Continuous Domain by Distributed, Limited Robots. <i>Lecture Notes in Computer Science</i> , 2006, , 144-155.	1.0	3
131	Continuous Time Gathering of Agents with Limited Visibility and Bearing-only Sensing. <i>Lecture Notes in Computer Science</i> , 2016, , 89-100.	1.0	3
132	Large Pheromones: A Case Study with Multi-agent Physical A*. <i>Lecture Notes in Computer Science</i> , 2004, , 366-373.	1.0	3
133	Perspective Photometric Stereo with Shadows. <i>Lecture Notes in Computer Science</i> , 2013, , 258-269.	1.0	3
134	Image Flows and Oneâ€Linear Graphical Image Representation. <i>Annals of the New York Academy of Sciences</i> , 2002, 972, 10-18.	1.8	2
135	Model-based shape from shading for microelectronics applications. <i>International Journal of Imaging Systems and Technology</i> , 2006, 16, 65-76.	2.7	2
136	A Linear-Time Constant-Space Algorithm for the Boundary Fill Problem. <i>Computer Journal</i> , 2007, 50, 473-477.	1.5	2
137	Vesicles and Amoebae: Onâ€Globallyâ€Constrainedâ€Shapeâ€Deformation. <i>Journal of Mathematical Imaging and Vision</i> , 2010, 37, 112-131.	0.8	2
138	Stochastic Recurrent Dynamics of Complex Systems of Solitons. <i>Physical Review Letters</i> , 2010, 105, 083901.	2.9	2
139	PointFlow: A Model for Automatically Tracing Object Boundaries and Inferring Illusory Contours. <i>Lecture Notes in Computer Science</i> , 2018, , 485-498.	1.0	2
140	The Cooperative Hunters â€ Efficient and Scalable Drones Swarm for Multiple Targets Detection. <i>Studies in Computational Intelligence</i> , 2018, , 187-205.	0.7	2
141	On Steering Swarms. <i>Lecture Notes in Computer Science</i> , 2018, , 403-410.	1.0	2
142	Benefiting from Duplicates of Compressed Data: Shift-Based Holographic Compression of Images. <i>Journal of Mathematical Imaging and Vision</i> , 2021, 63, 380-393.	0.8	2
143	Probabilistic Gathering of Agents with Simple Sensors. <i>SIAM Journal on Applied Mathematics</i> , 2021, 81, 620-640.	0.8	2
144	Digital Geometry in Image-Based Metrology. <i>Lecture Notes in Computational Vision and Biomechanics</i> , 2012, , 3-26.	0.5	2

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145	Low discrepancy holographic image sampling. International Journal of Imaging Systems and Technology, 2005, 15, 155-167.	2.7	1
146	Vesicles and amoebae: Globally constrained shape evolutions. , 2008, , .		1
147	Crazy-Cuts: From Theory to App. Mathematical Intelligencer, 2012, 34, 50-55.	0.1	1
148	On Globally Optimal Local Modeling: From Moving Least Squares to Over-parametrization. Mathematics and Visualization, 2013, , 379-405.	0.4	1
149	Depth perception in autostereograms: $1/f$ noise is best. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2016, 33, 149.	0.8	1
150	Reducing artifacts of intra-frame video coding via sequential denoising. , 2016, , .		1
151	Holographic sensing. Applied and Computational Harmonic Analysis, 2020, 49, 296-315.	1.1	1
152	Modular ADMM-Based Strategies for Optimized Compression, Restoration, and Distributed Representations of Visual Data. , 2021, , 1-33.		1
153	Paretian Similarity for Partial Comparison of Non-rigid Objects. , 2007, , 264-275.		1
154	Multi-agent Deployment on a Ring Graph. Lecture Notes in Computer Science, 2010, , 215-226.	1.0	1
155	A "Thermodynamic" Approach to Multi-robot Cooperative Localization with Noisy Sensors. Lecture Notes in Computer Science, 2012, , 196-203.	1.0	1
156	Seeing Things in Random-Dot Videos. Lecture Notes in Computer Science, 2020, , 195-208.	1.0	1
157	A sharp relative isoperimetric inequality for the square. Comptes Rendus Mathematique, 2021, 359, 1191-1199.	0.1	1
158	A Locust-Inspired Model of Collective Marching on Rings. Entropy, 2022, 24, 918.	1.1	1
159	Bit Allocation in Piecewise-Planar Representation of Images. Journal of Visual Communication and Image Representation, 1995, 6, 52-58.	1.7	0
160	Trifocal tensors for weak perspective and paraperspective projections. Pattern Recognition, 2001, 34, 395-404.	5.1	0
161	Isoperimetrically Pareto-optimal shapes on the hexagonal grid. , 2008, , .		0
162	Iterative algorithm for optimal fiducials under weak perspective projection. International Journal of Imaging Systems and Technology, 2009, 19, 27-36.	2.7	0

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163	Swarm ant robotics for a dynamic cleaning problem - analytic lower bounds and impossibility results. , 2009, , .		0
164	On optimal disc covers and a new characterization of the Steiner center. Computational Geometry: Theory and Applications, 2016, 52, 1-8.	0.3	0
165	Guidance of Swarms with Agents Having Bearing Only and Limited Visibility Sensors. Lecture Notes in Computer Science, 2018, , 44-56.	1.0	0
166	AntAlateâ€™A Multi-Agent Autonomy Framework. Frontiers in Robotics and AI, 2021, 8, 719496.	2.0	0
167	Erratic Extremism Causes Dynamic Consensus: A New Model for Opinion Dynamics. SIAM Journal on Applied Dynamical Systems, 2021, 20, 2077-2107.	0.7	0
168	Invariant Recognition and Processing of Planar Shapes. Lecture Notes in Computer Science, 2001, , 3-10.	1.0	0
169	Digital Geometry for Image-Based Metrology. Lecture Notes in Computer Science, 2002, , 145-154.	1.0	0
170	Collaborative Patrolling Swarms in Stochastically Expanding Environments. Studies in Computational Intelligence, 2018, , 155-185.	0.7	0
171	The Search Complexity of Collaborative Swarms in Expanding \mathbb{Z}^2 Grid Regions. Studies in Computational Intelligence, 2018, , 129-153.	0.7	0
172	Swarm Search of Expanding Regions in Grids: Lower Bounds. Studies in Computational Intelligence, 2018, , 51-89.	0.7	0
173	RGBD-Fusion: Depth Refinement for Diffuse and Specular Objects. Advances in Computer Vision and Pattern Recognition, 2020, , 73-113.	0.9	0
174	On Tracking and Capture in Proportional-Control Bearing-Only Unicycle Pursuit. , 2022, 6, 2132-2137.		0