

Ilan Shimshoni

List of Publications by Year in descending order

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Version: 2024-02-01

70
papers

1,750
citations

516681

16
h-index

302107

39
g-index

72
all docs

72
docs citations

72
times ranked

1518
citing authors

#	ARTICLE	IF	CITATIONS
1	Automatic and Efficient Fall Risk Assessment Based on Machine Learning. Sensors, 2022, 22, 1557.	3.8	12
2	Improving Office Workers'™ Workspace Using a Self-adjusting Computer Screen. ACM Transactions on Interactive Intelligent Systems, 2022, 12, 1-32.	3.7	1
3	ARIDF: Automatic Representative Image Dataset Finder for Image Based Localization. , 2022, , .		0
4	GIScience integrated with computer vision for the examination of old engravings and drawings. International Journal of Geographical Information Science, 2021, 35, 1703-1724.	4.8	3
5	Detection of elusive polyps using a large-scale artificial intelligence system (with videos). Gastrointestinal Endoscopy, 2021, 94, 1099-1109.e10.	1.0	21
6	Machine Learning Based Assembly of Fragments of Ancient Papyrus. Journal on Computing and Cultural Heritage, 2021, 14, 1-21.	2.1	6
7	Predicting Fall Probability Based on a Validated Balance Scale. , 2020, , .		5
8	GIScience Integrated with Computer Vision for the Interpretation and Analysis of Old Paintings. , 2020, , .		3
9	Estimating the Number of Correct Matches Using Only Spatial Order. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2019, 41, 2846-2860.	13.9	3
10	Exploring the potential of a mobile eye tracker as an intuitive indoor pointing device: A case study in cultural heritage. Future Generation Computer Systems, 2018, 81, 528-541.	7.5	28
11	The Importance of Pen Motion Pattern Groups for Semi-Automatic Classification of Handwriting into Mental Workload Classes. Cognitive Computation, 2018, 10, 215-227.	5.2	10
12	3D motion capture system for assessing patient motion during Fugl'™Meyer stroke rehabilitation testing. IET Computer Vision, 2018, 12, 963-975.	2.0	14
13	Robust epipolar geometry estimation using noisy pose priors. Image and Vision Computing, 2017, 67, 16-28.	4.5	5
14	Registration of 3D Point Clouds Using Mean Shift Clustering on Rotations and Translations. , 2017, , .		3
15	Using Spatial Order to Boost the Elimination of Incorrect Feature Matches. , 2016, , .		3
16	A novel image based positioning technique using mobile eye tracker for a museum visit. , 2016, , .		2
17	Using Eye-Tracking for Enhancing the Museum Visit Experience. , 2016, , .		9
18	Lane-level positioning with sparse visual cues. , 2016, , .		5

#	ARTICLE	IF	CITATIONS
19	Monocular self localization in an urban environment using a prior-based soft optimization robust estimation method. , 2016, , .		0
20	Analyzing Data Changes using Mean Shift Clustering. International Journal of Pattern Recognition and Artificial Intelligence, 2016, 30, 1650016.	1.2	3
21	K-Means over Incomplete Datasets Using Mean Euclidean Distance. Lecture Notes in Computer Science, 2016, , 113-127.	1.3	5
22	Lookahead selective sampling for incomplete data. International Journal of Applied Mathematics and Computer Science, 2016, 26, 871-884.	1.5	1
23	Person identification from action styles. , 2015, , .		10
24	Memory based active contour algorithm using pixel-level classified images for colon crypt segmentation. Computerized Medical Imaging and Graphics, 2015, 43, 150-164.	5.8	29
25	An Efficient SIFT-Based Mode-Seeking Algorithm for Sub-Pixel Registration of Remotely Sensed Images. IEEE Geoscience and Remote Sensing Letters, 2015, 12, 379-383.	3.1	81
26	Detecting, modeling and tracking of a short-term mutual awareness activity. , 2014, , .		0
27	Mean Shift Clustering Algorithm for Data with Missing Values. Lecture Notes in Computer Science, 2014, , 426-438.	1.3	17
28	Epipolar Geometry Estimation for Urban Scenes with Repetitive Structures. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2014, 36, 2381-2395.	13.9	20
29	Online action recognition using covariance of shape and motion. Computer Vision and Image Understanding, 2014, 129, 15-26.	4.7	29
30	Reconstruction of relief objects from archeological line drawings. Journal on Computing and Cultural Heritage, 2013, 6, 1-19.	2.1	3
31	Computer-based, automatic recording and illustration of complex archaeological artifacts. Journal of Archaeological Science, 2013, 40, 1329-1339.	2.4	49
32	A sift-based mode-seeking procedure for efficient, accurate registration of remotely sensed images. , 2013, , .		4
33	Multi-scale Curve Detection on Surfaces. , 2013, , .		4
34	An ensemble-clustering-based distance metric and its applications. International Journal of Business Intelligence and Data Mining, 2013, 8, 264.	0.2	4
35	Epipolar Geometry Estimation for Urban Scenes with Repetitive Structures. Lecture Notes in Computer Science, 2013, , 163-176.	1.3	1
36	Reconstruction of relief objects from line drawings. , 2011, , .		12

#	ARTICLE	IF	CITATIONS
37	Prominent Field for Shape Processing and Analysis of Archaeological Artifacts. International Journal of Computer Vision, 2011, 94, 89-100.	15.6	18
38	Prominent field for shape processing of archaeological artifacts. , 2009, , .		3
39	On edge detection on surfaces. , 2009, , .		36
40	3D Shape Recovery of Smooth Surfaces: Dropping the Fixed-Viewpoint Assumption. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2009, 31, 1310-1324.	13.9	3
41	On edge detection on surfaces. , 2009, , .		6
42	Pattern Mining in System Logs: Opportunities for Process Improvement. Lecture Notes in Business Information Processing, 2009, , 162-173.	1.0	0
43	Guided Sampling via Weak Motion Models and Outlier Sample Generation for Epipolar Geometry Estimation. International Journal of Computer Vision, 2008, 80, 275-288.	15.6	9
44	MAVIS: A multi-level algorithm visualization system within a collaborative distance learning environment. Journal of Visual Languages and Computing, 2008, 19, 182-202.	1.8	4
45	Geometric voting algorithm for star trackers. IEEE Transactions on Aerospace and Electronic Systems, 2008, 44, 441-456.	4.7	111
46	Balanced Exploration and Exploitation Model Search for Efficient Epipolar Geometry Estimation. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2008, 30, 1230-1242.	13.9	49
47	Robust Real-Time Unusual Event Detection using Multiple Fixed-Location Monitors. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2008, 30, 555-560.	13.9	721
48	Demarcating curves for shape illustration. ACM Transactions on Graphics, 2008, 27, 1-9.	7.2	81
49	Demarcating curves for shape illustration. , 2008, , .		14
50	Image-based texture replacement using multiview images. , 2008, , .		2
51	Dense mirroring surface recovery from 1D homographies and sparse correspondences. , 2007, , .		8
52	Landmark Selection for Task-Oriented Navigation. IEEE Transactions on Robotics, 2007, 23, 494-505.	10.3	34
53	Multi-Camera Topology Recovery from Coherent Motion. , 2007, , .		12
54	Efficient search and verification for function based classification from real range images. Computer Vision and Image Understanding, 2007, 105, 200-217.	4.7	7

#	ARTICLE	IF	CITATIONS
55	Object recognition using point uncertainty regions as pose uncertainty regions. Image and Vision Computing, 2006, 24, 192-201.	4.5	0
56	Landmark Selection for Task-Oriented Navigation. , 2006, , .		4
57	Aggregated Dynamic Background Modeling. , 2006, , .		1
58	TEMPORAL COHERENCE IN BOUNDING VOLUME HIERARCHIES FOR COLLISION DETECTION. International Journal of Shape Modeling, 2006, 12, 159-178.	0.2	8
59	Balanced Exploration and Exploitation Model Search for Efficient Epipolar Geometry Estimation. Lecture Notes in Computer Science, 2006, , 151-164.	1.3	10
60	Motion Recovery by Integrating over the Joint Image Manifold. International Journal of Computer Vision, 2005, 65, 131-145.	15.6	3
61	Placing three-dimensional models in an uncalibrated single image of an architectural scene. , 2002, , .		1
62	Image-based animation of facial expressions. Visual Computer, 2002, 18, 445-467.	3.5	4
63	A Fast Linear Method for Mobile Robot Localization from Landmark Bearings. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2001, 34, 119-124.	0.4	1
64	Shape Reconstruction of 3D Bilaterally Symmetric Surfaces. International Journal of Computer Vision, 2000, 39, 97-110.	15.6	47
65	Visual Homing: Surfing on the Epipoles. International Journal of Computer Vision, 1999, 33, 117-137.	15.6	70
66	On Estimating the Uncertainty in the Location of Image Points in 3D Recognition from Match Sets of Different Sizes. Computer Vision and Image Understanding, 1999, 74, 163-173.	4.7	3
67	Visual homing: Surfing on the epipoles. , 1998, , 11-23.		17
68	Recovering the Shape of Polyhedra Using Line-Drawing Analysis and Complex Reflectance Models. Computer Vision and Image Understanding, 1997, 65, 296-310.	4.7	16
69	Global Shape from Shading. Computer Vision and Image Understanding, 1996, 64, 188-189.	4.7	28
70	Clustering Algorithms for Incomplete Datasets. , 0, , .		1