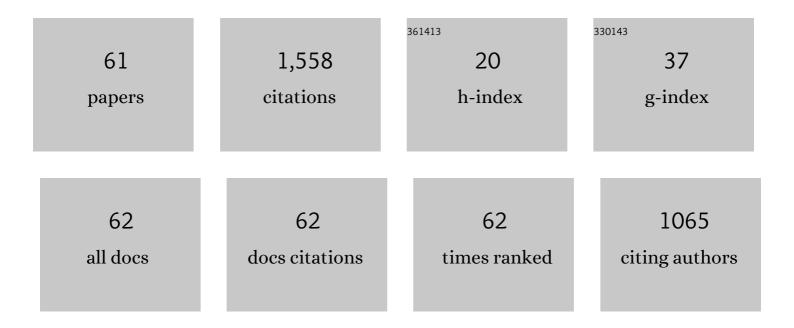
List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/3450404/publications.pdf Version: 2024-02-01



LEVENT RUDAK KADA

#	Article	IF	CITATIONS
1	An image-based, trainable symbol recognizer for hand-drawn sketches. Computers and Graphics, 2005, 29, 501-517.	2.5	120
2	Semantic shape editing using deformation handles. ACM Transactions on Graphics, 2015, 34, 1-12.	7.2	100
3	Enhancing the Structural Performance of Additively Manufactured Objects Through Build Orientation Optimization. Journal of Mechanical Design, Transactions of the ASME, 2015, 137, .	2.9	98
4	Stress Field Prediction in Cantilevered Structures Using Convolutional Neural Networks. Journal of Computing and Information Science in Engineering, 2020, 20, .	2.7	96
5	Combining geometry and domain knowledge to interpret hand-drawn diagrams. Computers and Graphics, 2005, 29, 547-562.	2.5	84
6	TopologyGAN: Topology Optimization Using Generative Adversarial Networks Based on Physical Fields Over the Initial Domain. Journal of Mechanical Design, Transactions of the ASME, 2021, 143, .	2.9	82
7	Sketch-Based 3D-Shape Creation for Industrial Styling Design. IEEE Computer Graphics and Applications, 2007, 27, 60-71.	1.2	78
8	Hierarchical parsing and recognition of hand-sketched diagrams. , 2004, , .		71
9	Conceptual design and modification of freeform surfaces using dual shape representations in augmented reality environments. CAD Computer Aided Design, 2012, 44, 1020-1032.	2.7	58
10	Beautification of Design Sketches Using Trainable Stroke Clustering and Curve Fitting. IEEE Transactions on Visualization and Computer Graphics, 2011, 17, 694-708.	4.4	50
11	A data-driven investigation and estimation of optimal topologies under variable loading configurations. Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization, 2016, 4, 61-72.	1.9	50
12	Computer-Aided Patient-Specific Coronary Artery Graft Design Improvements Using CFD Coupled Shape Optimizer. Cardiovascular Engineering and Technology, 2011, 2, 35-47.	1.6	48
13	StressGAN: A Generative Deep Learning Model for Two-Dimensional Stress Distribution Prediction. Journal of Applied Mechanics, Transactions ASME, 2021, 88, .	2.2	47
14	Pen-based styling design of 3D geometry using concept sketches and template models. , 2006, , .		46
15	A Deep Reinforcement Learning Approach for Global Routing. Journal of Mechanical Design, Transactions of the ASME, 2020, 142, .	2.9	46
16	Co-abstraction of shape collections. ACM Transactions on Graphics, 2012, 31, 1-11.	7.2	44
17	From engineering diagrams to engineering models: Visual recognition and applications. CAD Computer Aided Design, 2011, 43, 278-292.	2.7	39
18	An efficient graph-based recognizer for hand-drawn symbols. Computers and Graphics, 2007, 31, 554-567.	2.5	37

#	Article	IF	CITATIONS
19	Improving Problem Solving Performance by Inducing Talk about Salient Problem Features. Journal of Engineering Education, 2010, 99, 135-142.	3.0	37
20	Optimization of Part Consolidation for Minimum Production Costs and Time Using Additive Manufacturing. Journal of Mechanical Design, Transactions of the ASME, 2020, 142, .	2.9	32
21	Co-constrained handles for deformation in shape collections. ACM Transactions on Graphics, 2014, 33, 1-11.	7.2	25
22	Concurrent Structure and Process Optimization for Minimum Cost Metal Additive Manufacturing. Journal of Mechanical Design, Transactions of the ASME, 2019, 141, .	2.9	23
23	A Sketch-Based Tool for Analyzing Vibratory Mechanical Systems. Journal of Mechanical Design, Transactions of the ASME, 2008, 130, .	2.9	21
24	Prediction of high frequency resistance in polymer electrolyte membrane fuel cells using long short term memory based model. Energy and Al, 2021, 3, 100045.	10.6	20
25	Supporting Early Styling Design of Automobiles Using Sketch-based 3D Shape Construction. Computer-Aided Design and Applications, 2008, 5, 867-876.	0.6	18
26	An evaluation of user experience with a sketch-based 3D modeling system. Computers and Graphics, 2007, 31, 580-597.	2.5	15
27	A Sketch-Based Interface for the Design and Analysis of Simple Vibratory Mechanical Systems. , 2004, , .		15
28	Deciphering the Influence of Product Shape on Consumer Judgments Through Geometric Abstraction. Journal of Mechanical Design, Transactions of the ASME, 2015, 137, .	2.9	14
29	Data-driven Upsampling of Point Clouds. CAD Computer Aided Design, 2019, 112, 1-13.	2.7	14
30	Neural network-based symbol recognition using a few labeled samples. Computers and Graphics, 2011, 35, 955-966.	2.5	11
31	Sketch-based surface design using malleable curve networks. Computers and Graphics, 2012, 36, 916-929.	2.5	11
32	Sketch-based modeling of smooth surfaces using adaptive curve networks. , 2011, , .		9
33	Surface creation on unstructured point sets using neural networks. CAD Computer Aided Design, 2012, 44, 644-656.	2.7	8
34	DMS2015-33: Generative interface structure design for supporting existing objects. Journal of Visual Languages and Computing, 2015, 31, 171-183.	1.8	8
35	Shape Design From Exemplar Sketches Using Graph-Based Sketch Analysis. Journal of Mechanical Design, Transactions of the ASME, 2012, 134, .	2.9	7
36	Sketch-based aesthetic product form exploration from existing images using piecewise clothoid curves. Journal of Visual Languages and Computing, 2012, 23, 327-339.	1.8	6

#	Article	IF	CITATIONS
37	Designing coupling behaviors using compliant shape optimization. CAD Computer Aided Design, 2018, 101, 57-71.	2.7	6
38	A representation for comparing simulations and computing the purpose of geometric features. Artificial Intelligence for Engineering Design, Analysis and Manufacturing: AIEDAM, 2001, 15, 189-201.	1.1	5
39	Recognizing Network-Like Hand-Drawn Sketches: A Convolutional Neural Network Approach. , 2009, , .		5
40	Recognizing planar kinematic mechanisms from a single image using evolutionary computation. , 2014, , .		5
41	Characterizing the performance of an image-based recognizer for planar mechanical linkages in textbook graphics and hand-drawn sketches. Computers and Graphics, 2015, 52, 1-17.	2.5	5
42	Intermodal image-based recognition of planar kinematic mechanisms. Journal of Visual Languages and Computing, 2015, 27, 38-48.	1.8	5
43	High Degree of Freedom Hand Pose Tracking Using Limited Strain Sensing and Optical Training. Journal of Computing and Information Science in Engineering, 2019, 19, .	2.7	5
44	Computer tutors can address students learning to solve complex engineering problems. , 2014, , .		4
45	Modeling flow features with user-guided streamline parameterization. CAD Computer Aided Design, 2014, 46, 263-268.	2.7	4
46	Free Form Surface Skinning of 3D Curve Clouds for Conceptual Shape Design. Journal of Computing and Information Science in Engineering, 2012, 12, .	2.7	3
47	Pencil-like sketch rendering of 3D scenes using trajectory planning and dynamic tracking. Journal of Visual Languages and Computing, 2014, 25, 481-493.	1.8	3
48	A Data-Driven Investigation and Estimation of Optimal Topologies under Variable Loading Configurations. Lecture Notes in Computer Science, 2014, , 387-399.	1.3	3
49	Providing formative assessment to students solving multipath engineering problems with complex arrangements of interacting parts: an intelligent tutor approach. Interactive Learning Environments, 2016, 24, 1864-1880.	6.4	3
50	Wisdom of Microcrowds in Evaluating Solutions to Esoteric Engineering Problems. Journal of Mechanical Design, Transactions of the ASME, 2019, 141, .	2.9	3
51	Causal reasoning using geometric analysis. Artificial Intelligence for Engineering Design, Analysis and Manufacturing: AIEDAM, 2002, 16, 363-384.	1.1	2
52	Learning Geometric Design Knowledge From Conceptual Sketches and Its Utilization in Shape Creation and Optimization. , 2009, , .		2
53	Reconstruction of a Deformed Tumor Based on Fiducial Marker Registration: A Computational Feasibility Study. Technology in Cancer Research and Treatment, 2018, 17, 153303461876679.	1.9	2
54	Sketch-based shape exploration using multiscale free-form surface editing. Artificial Intelligence for Engineering Design, Analysis and Manufacturing: AIEDAM, 2012, 26, 337-350.	1.1	1

#	Article	IF	CITATIONS
55	Sketching and pen-based design interaction. Artificial Intelligence for Engineering Design, Analysis and Manufacturing: AIEDAM, 2012, 26, 241-243.	1.1	1
56	Feature, design intention and constraint preservation for direct modeling of 3D freeform surfaces. 3D Research, 2012, 3, 1.	1.8	1
57	Soft tissue deformation tracking by means of an optimized fiducial marker layout with application to cancer tumors. International Journal of Computer Assisted Radiology and Surgery, 2020, 15, 225-237.	2.8	1
58	The Creation and Modification of 3D Models Using Sketches and Curves. , 2011, , 341-367.		1
59	<i>AI EDAM</i> Special Issue, August 2012, Vol. 26, No. 3. Artificial Intelligence for Engineering Design, Analysis and Manufacturing: AIEDAM, 2011, 25, 305-305.	1.1	0
60	Computer tutors can reduce student errors and promote solution efficiency for complex engineering problems. Journal of Visual Languages and Computing, 2014, 25, 1021-1029.	1.8	0
61	Predictive Modeling for 2D Form Design. Lecture Notes in Computer Science, 2014, , 286-291.	1.3	Ο