Yu-Shen Liu

List of Publications by Year
in descending order

48 papers	1,969 citations	394421 19 h-index	377865 34 g-index
48 all docs	48 docs citations	48 times ranked	1010 citing authors

#	Article	IF	Citations
1	Point2Sequence: Learning the Shape Representation of 3D Point Clouds with an Attention-Based Sequence to Sequence Network. Proceedings of the AAAI Conference on Artificial Intelligence, 2019, 33, 8778-8785.	4.9	174
2	The IFC-based path planning for 3D indoor spaces. Advanced Engineering Informatics, 2013, 27, 189-205.	8.0	148
3	SeqViews2SeqLabels: Learning 3D Global Features via Aggregating Sequential Views by RNN With Attention. IEEE Transactions on Image Processing, 2019, 28, 658-672.	9.8	148
4	Point Cloud Completion by Skip-Attention Network With Hierarchical Folding. , 2020, , .		146
5	3D2SeqViews: Aggregating Sequential Views for 3D Global Feature Learning by CNN With Hierarchical Attention Aggregation. IEEE Transactions on Image Processing, 2019, 28, 3986-3999.	9.8	105
6	SnowflakeNet: Point Cloud Completion by Snowflake Point Deconvolution with Skip-Transformer. , 2021, , .		101
7	PMP-Net: Point Cloud Completion by Learning Multi-step Point Moving Paths. , 2021, , .		82
8	Multi-Angle Point Cloud-VAE: Unsupervised Feature Learning for 3D Point Clouds From Multiple Angles by Joint Self-Reconstruction and Half-to-Half Prediction. , 2019, , .		73
9	A query expansion method for retrieving online BIM resources based on Industry Foundation Classes. Automation in Construction, 2015, 56, 14-25.	9.8	72
10	View Inter-Prediction GAN: Unsupervised Representation Learning for 3D Shapes by Learning Global Shape Memories to Support Local View Predictions. Proceedings of the AAAI Conference on Artificial Intelligence, 2019, 33, 8376-8384.	4.9	71
11	L2G Auto-encoder. , 2019, , .		58
12	Cycle4Completion: Unpaired Point Cloud Completion using Cycle Transformation with Missing Region Coding. , 2021, , .		51
13	BIMTag: Concept-based automatic semantic annotation of online BIM product resources. Advanced Engineering Informatics, 2017, 31, 48-61.	8.0	43
14	Robust principal axes determination for point-based shapes using least median of squares. CAD Computer Aided Design, 2009, 41, 293-305.	2.7	41
15	Deep Spatiality: Unsupervised Learning of Spatially-Enhanced Global and Local 3D Features by Deep Neural Network With Coupled Softmax. IEEE Transactions on Image Processing, 2018, 27, 3049-3063.	9.8	37
16	Computing the Inner Distances of Volumetric Models for Articulated Shape Description with a Visibility Graph. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2011, 33, 2538-2544.	13.9	31
17	Fine-Grained 3D Shape Classification With Hierarchical Part-View Attention. IEEE Transactions on Image Processing, 2021, 30, 1744-1758.	9.8	31
18	Salient critical points for meshes. , 2007, , .		29

#	Article	IF	Citations
19	BoSCC: Bag of Spatial Context Correlations for Spatially Enhanced 3D Shape Representation. IEEE Transactions on Image Processing, 2017, 26, 3707-3720.	9.8	29
20	Y2Seq2Seq: Cross-Modal Representation Learning for 3D Shape and Text by Joint Reconstruction and Prediction of View and Word Sequences. Proceedings of the AAAI Conference on Artificial Intelligence, 2019, 33, 126-133.	4.9	29
21	Point2SpatialCapsule: Aggregating Features and Spatial Relationships of Local Regions on Point Clouds Using Spatial-Aware Capsules. IEEE Transactions on Image Processing, 2020, 29, 8855-8869.	9.8	29
22	Reconstructing 3D Shapes From Multiple Sketches Using Direct Shape Optimization. IEEE Transactions on Image Processing, 2020, 29, 8721-8734.	9.8	29
23	3DViewGraph: Learning Global Features for 3D Shapes from A Graph of Unordered Views with Attention. , 2019, , .		29
24	IDSS: deformation invariant signatures for molecular shape comparison. BMC Bioinformatics, 2009, 10, 157.	2.6	28
25	IFCCompressor: A content-based compression algorithm for optimizing Industry Foundation Classes files. Automation in Construction, 2015, 50, 1-15.	9.8	28
26	IFCdiff: A content-based automatic comparison approach for IFC files. Automation in Construction, 2018, 86, 53-68.	9.8	27
27	CF-SIS: Semantic-Instance Segmentation of 3D Point Clouds by Context Fusion with Self-Attention. , 2020, , .		27
28	Parts4Feature: Learning 3D Global Features from Generally Semantic Parts in Multiple Views. , 2019, , .		23
29	SPU-Net: Self-Supervised Point Cloud Upsampling by Coarse-to-Fine Reconstruction With Self-Projection Optimization. IEEE Transactions on Image Processing, 2022, 31, 4213-4226.	9.8	23
30	Using diffusion distances for flexible molecular shape comparison. BMC Bioinformatics, 2010, 11, 480.	2.6	20
31	Enhanced Explicit Semantic Analysis for Product Model Retrieval in Construction Industry. IEEE Transactions on Industrial Informatics, 2017, 13, 3361-3369.	11.3	19
32	LRC-Net: Learning discriminative features on point clouds by encoding local region contexts. Computer Aided Geometric Design, 2020, 79, 101859.	1.2	19
33	BIMSeek++: Retrieving BIM components using similarity measurement of attributes. Computers in Industry, 2020, 116, 103186.	9.9	19
34	ShapeCaptioner: Generative Caption Network for 3D Shapes by Learning a Mapping from Parts Detected in Multiple Views to Sentences. , 2020, , .		18
35	Using least median of squares for structural superposition of flexible proteins. BMC Bioinformatics, 2009, 10, 29.	2.6	17
36	Computing global visibility maps for regions on the boundaries of polyhedra using Minkowski sums. CAD Computer Aided Design, 2009, 41, 668-680.	2.7	17

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37	CMPD: Using Cross Memory Network With Pair Discrimination for Image-Text Retrieval. IEEE Transactions on Circuits and Systems for Video Technology, 2021, 31, 2427-2437.	8.3	17
38	Unsupervised Learning of Fine Structure Generation for 3D Point Clouds by 2D Projection Matching. , 2021, , .		16
39	Adversarial Cross-Modal Retrieval via Learning and Transferring Single-Modal Similarities. , 2019, , .		11
40	SeqXY2SeqZ: Structure Learning for 3D Shapes by Sequentially Predicting 1D Occupancy Segments from 2D Coordinates. Lecture Notes in Computer Science, 2020, , 607-625.	1.3	11
41	Heterogeneous network modeling and segmentation of building information modeling data for parallel triangulation and visualization. Automation in Construction, 2021, 131, 103897.	9.8	8
42	Robust shape normalization of 3D articulated volumetric models. CAD Computer Aided Design, 2012, 44, 1253-1268.	2.7	7
43	Hierarchical View Predictor: Unsupervised 3D Global Feature Learning through Hierarchical Prediction among Unordered Views. , 2021, , .		7
44	Junction-aware shape descriptor for 3D articulated models using local shape-radius variation. Signal Processing, 2015, 112, 4-16.	3.7	6
45	VIV: Using visible internal volume to compute junction-aware shape descriptor of 3D articulated models. Neurocomputing, 2016, 215, 32-47.	5.9	5
46	3DMolNavi: A web-based retrieval and navigation tool for flexible molecular shape comparison. BMC Bioinformatics, 2012, 13, 95.	2.6	4
47	Recent Advances on Building Information Modeling. Scientific World Journal, The, 2015, 2015, 1-2.	2.1	3
48	Dynamically loading IFC models on a web browser based on spatial semantic partitioning. Visual Computing for Industry, Biomedicine, and Art, 2019, 2, 4.	3.7	3