

# Tobias Schreck

## List of Publications by Year in descending order

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Version: 2024-02-01

79  
papers

2,534  
citations

331670

21  
h-index

223800

46  
g-index

79  
all docs

79  
docs citations

79  
times ranked

1925  
citing authors

#	ARTICLE	IF	CITATIONS
1	Visual Analysis of Large Graphs: State-of-the-Art and Future Research Challenges. Computer Graphics Forum, 2011, 30, 1719-1749.	3.0	368
2	Feature-based similarity search in 3D object databases. ACM Computing Surveys, 2005, 37, 345-387.	23.0	332
3	Matrix Reordering Methods for Table and Network Visualization. Computer Graphics Forum, 2016, 35, 693-716.	3.0	134
4	Visual Cluster Analysis of Trajectory Data with Interactive Kohonen Maps. Information Visualization, 2009, 8, 14-29.	1.9	102
5	A comparison of 3D shape retrieval methods based on a large-scale benchmark supporting multimodal queries. Computer Vision and Image Understanding, 2015, 131, 1-27.	4.7	102
6	Space-in-Time and Time-in-Space Self-Organizing Maps for Exploring Spatiotemporal Patterns. Computer Graphics Forum, 2010, 29, 913-922.	3.0	101
7	Content-Based 3D Object Retrieval. IEEE Computer Graphics and Applications, 2007, 27, 22-27.	1.2	92
8	A comparison of methods for sketch-based 3D shape retrieval. Computer Vision and Image Understanding, 2014, 119, 57-80.	4.7	91
9	Quality Metrics for Information Visualization. Computer Graphics Forum, 2018, 37, 625-662.	3.0	86
10	MotionExplorer: Exploratory Search in Human Motion Capture Data Based on Hierarchical Aggregation. IEEE Transactions on Visualization and Computer Graphics, 2013, 19, 2257-2266.	4.4	70
11	Visual Analysis of Social Media Data. Computer, 2013, 46, 68-75.	1.1	62
12	Interactive visual comparison of multiple trees. , 2011, , .		60
13	Guidance in the human-machine analytics process. Visual Informatics, 2018, 2, 166-180.	4.4	56
14	Trajectory-based visual analysis of large financial time series data. SIGKDD Explorations: Newsletter of the Special Interest Group (SIG) on Knowledge Discovery & Data Mining, 2007, 9, 30-37.	4.0	55
15	How to Make Sense of Team Sport Data: From Acquisition to Data Modeling and Research Aspects. Data, 2017, 2, 2.	2.3	50
16	Techniques for Precision-Based Visual Analysis of Projected Data. Information Visualization, 2010, 9, 181-193.	1.9	48
17	Feature-driven visual analytics of soccer data. , 2014, , .		43
18	An experimental effectiveness comparison of methods for 3D similarity search. International Journal on Digital Libraries, 2006, 6, 39-54.	1.5	41

#	ARTICLE	IF	CITATIONS
19	Visual cluster analysis of trajectory data with interactive Kohonen Maps. , 2008, , .		39
20	Automatic Selection and Combination of Descriptors for Effective 3D Similarity Search. , 0, , .		34
21	Assisted Descriptor Selection Based on Visual Comparative Data Analysis. Computer Graphics Forum, 2011, 30, 891-900.	3.0	34
22	Immersive analysis of user motion in VR applications. Visual Computer, 2020, 36, 1937-1949.	3.5	34
23	Dynamic Visual Abstraction of Soccer Movement. Computer Graphics Forum, 2017, 36, 305-315.	3.0	33
24	Visual analysis of graphs with multiple connected components. , 2009, , .		27
25	A framework for using self-organising maps to analyse spatio-temporal patterns, exemplified by analysis of mobile phone usage. Journal of Location Based Services, 2010, 4, 200-221.	1.9	27
26	Visual Soccer Analytics: Understanding the Characteristics of Collective Team Movement Based on Feature-Driven Analysis and Abstraction. ISPRS International Journal of Geo-Information, 2015, 4, 2159-2184.	2.9	26
27	Using entropy impurity for improved 3D object similarity search. , 0, , .		22
28	An experimental comparison of feature-based 3D retrieval methods. , 0, , .		20
29	IRVINE: A Design Study on Analyzing Correlation Patterns of Electrical Engines. IEEE Transactions on Visualization and Computer Graphics, 2022, 28, 11-21.	4.4	20
30	VisInfo: a digital library system for time series research data based on exploratory searchâ€™a user-centered design approach. International Journal on Digital Libraries, 2015, 16, 37-59.	1.5	19
31	Content-based layouts for exploratory metadata search in scientific research data. , 2012, , .		18
32	ClustNails: Visual analysis of subspace clusters. Tsinghua Science and Technology, 2012, 17, 419-428.	6.1	18
33	Data-aware 3D partitioning for generic shape retrieval. Computers and Graphics, 2013, 37, 460-472.	2.5	17
34	Guide Me in Analysis: A Framework for Guidance Designers. Computer Graphics Forum, 2020, 39, 269-288.	3.0	17
35	Retrieval and exploratory search in multivariate research data repositories using regressional features. , 2011, , .		15
36	Integrated visual analysis of patterns in time series and text data - Workflow and application to financial data analysis. Information Visualization, 2016, 15, 75-90.	1.9	15

#	ARTICLE	IF	CITATIONS
37	Visualizing Time-Dependent Data in Multivariate Hierarchic Plots - Design and Evaluation of an Economic Application. , 2008, , .		14
38	Revealing the Invisible: Visual Analytics and Explanatory Storytelling for Advanced Team Sport Analysis. , 2018, , .		13
39	The Role of Interactive Visualization in Fostering Trust in AI. IEEE Computer Graphics and Applications, 2021, 41, 7-12.	1.2	13
40	Visual Analysis of Sets of Heterogeneous Matrices Using Projection-Based Distance Functions and Semantic Zoom. Computer Graphics Forum, 2014, 33, 411-420.	3.0	11
41	Visual Cascade Analytics of Large-scale Spatiotemporal Data. IEEE Transactions on Visualization and Computer Graphics, 2021, PP, 1-1.	4.4	11
42	Improving 3D similarity search by enhancing and combining 3D descriptors. Multimedia Tools and Applications, 2012, 58, 81-108.	3.9	10
43	From game events to team tactics: Visual analysis of dangerous situations in multi-match data. , 2016, , .		10
44	Interactive visual labelling versus active learning: an experimental comparison. Frontiers of Information Technology and Electronic Engineering, 2020, 21, 524-535.	2.6	10
45	A sketch-aided retrieval approach for incomplete 3D objects. Computers and Graphics, 2020, 87, 111-122.	2.5	8
46	Visual Clustering Factors in Scatterplots. IEEE Computer Graphics and Applications, 2021, 41, 79-89.	1.2	8
47	Extracting semantic knowledge from web context for multimedia IR: a taxonomy, survey and challenges. Multimedia Tools and Applications, 2018, 77, 13853-13889.	3.9	7
48	Where to go: Computational and visual what-if analyses in soccer. Journal of Sports Sciences, 2019, 37, 2774-2782.	2.0	7
49	Multiscale Snapshots: Visual Analysis of Temporal Summaries in Dynamic Graphs. IEEE Transactions on Visualization and Computer Graphics, 2021, 27, 517-527.	4.4	7
50	Using space-time visual analytic methods for exploring the dynamics of ethnic groups' residential patterns. International Journal of Geographical Information Science, 2010, 24, 1481-1496.	4.8	6
51	VIMA: Modeling and Visualization of High Dimensional Machine Sensor Data Leveraging Multiple Sources of Domain Knowledge. , 2020, , .		6
52	2D Maps for Visual Analysis and Retrieval in Large Multi-Feature 3D Model Databases. , 0, , .		4
53	Visual-Interactive Analysis With Self-Organizing Maps - Advances and Research Challenges. , 0, , .		4
54	Visual analytics of terrorist activities related to epidemics. , 2011, , .		4

#	ARTICLE	IF	CITATIONS
55	User-drawn sketch-based 3D object retrieval using sparse coding. Multimedia Tools and Applications, 2015, 74, 4707-4722.	3.9	4
56	What Features Can Tell Us about Shape. IEEE Computer Graphics and Applications, 2017, 37, 82-87.	1.2	4
57	Human/machine/roboter: technologies for cognitive processes. Elektrotechnik Und Informationstechnik, 2019, 136, 313-317.	1.1	4
58	Augmenting Node-Link Diagrams with Topographic Attribute Maps. Computer Graphics Forum, 2020, 39, 369-381.	3.0	4
59	Multiscale Visualization: A Structured Literature Analysis. IEEE Transactions on Visualization and Computer Graphics, 2021, PP, 1-1.	4.4	4
60	Visual Exploration of Anomalies in Cyclic Time Series Data with Matrix and Glyph Representations. Big Data Research, 2021, 26, 100251.	4.2	4
61	Multiscale visual quality assessment for cluster analysis with self-organizing maps. Proceedings of SPIE, 2011, , .	0.8	3
62	Empirical evaluation of dissimilarity measures for 3D object retrieval with application to multi-feature retrieval. , 2015, , .		3
63	A Visual Digital Library Approach for Time-Oriented Scientific Primary Data. Lecture Notes in Computer Science, 2010, , 352-363.	1.3	3
64	Immersive Analytics of Anomalies in Multivariate Time Series Data with Proxy Interaction. , 2020, , .		3
65	dg2pix: Pixel-Based Visual Analysis of Dynamic Graphs. , 2020, , .		3
66	RfX: A Design Study for the Interactive Exploration of a Random Forest to Enhance Testing Procedures for Electrical Engines. Computer Graphics Forum, 2022, 41, 302-315.	3.0	3
67	Cluster correspondence views for enhanced analysis of SOM displays. , 2010, , .		2
68	Relating interesting quantitative time series patterns with text events and text features. , 2013, , .		2
69	A Benchmark Dataset for Repetitive Pattern Recognition on Textured 3D Surfaces. Computer Graphics Forum, 2021, 40, 1-8.	3.0	2
70	Using visual analytics to support decision making to solve the Kronos incident (VAST challenge 2014). , 2014, , .		1
71	Similarity Measures for Visual Comparison and Retrieval of Test Data in Aluminum Production. , 2021, , .		1
72	Feature-Based 3D Object Retrieval. , 2017, , 1-5.		1

#	ARTICLE	IF	CITATIONS
73	Analysis and Comparison of Feature-Based Patterns in Urban Street Networks. Communications in Computer and Information Science, 2017, , 287-309.	0.5	1
74	Special Issue on Machine Learning Approaches in Big Data Visualization. IEEE Computer Graphics and Applications, 2022, 42, 39-40.	1.2	1
75	Preface to special issue on 3DOR 2010. Visual Computer, 2011, 27, 949-950.	3.5	0
76	Preface to Special Issue on 3DOR 2011. Visual Computer, 2012, 28, 899-900.	3.5	0
77	Feature-Based 3D Object Retrieval. , 2018, , 1467-1471.		0
78	A System for Collaborative Assembly Simulation and User Performance Analysis. , 2021, , .		0
79	ManEx: The Visual Analysis of Measurements for the Assessment of Errors in Electrical Engines. IEEE Computer Graphics and Applications, 2022, 42, 68-80.	1.2	0