Karsten Klein

List of Publications by Year
in descending order

42 papers	1,326 citations	471509 17 h-index	395702 33 g-index
45 all docs	45 docs citations	45 times ranked	1523 citing authors

#	Article	IF	Citations
1	Investigation of microcystin conformation and binding towards PPP1 by molecular dynamics simulation. Chemico-Biological Interactions, 2022, 351, 109766.	4.0	5
2	Spatially resolved transcriptomics in immersive environments. Visual Computing for Industry, Biomedicine, and Art, 2022, 5, 2.	3.7	2
3	Immersive Analytics with Abstract 3D Visualizations: A Survey. Computer Graphics Forum, 2022, 41, 201-229.	3.0	31
4	Visual analytics of sensor movement data for cheetah behaviour analysis. Journal of Visualization, 2021, 24, 807-825.	1.8	4
5	TEAMwISE: synchronised immersive environments for exploration and analysis of animal behaviour. Journal of Visualization, 2021, 24, 845-859.	1.8	5
6	Visual exploration of large metabolic models. Bioinformatics, 2021, 37, 4460-4468.	4.1	4
7	Health monitoring in birds using bio-loggers and whole blood transcriptomics. Scientific Reports, 2021, 11, 10815.	3.3	9
8	The Value of Immersive Visualization. IEEE Computer Graphics and Applications, 2021, 41, 125-132.	1.2	26
9	Graph Planarity by Replacing Cliques with Paths. Algorithms, 2020, 13, 194.	2.1	6
10	On Turn-Regular Orthogonal Representations. Lecture Notes in Computer Science, 2020, , 250-264.	1.3	2
11	An Uncertainty Visual Analytics Framework for fMRI Functional Connectivity. Neuroinformatics, 2019, 17, 211-223.	2.8	3
12	Challenges for Brain Data Analysis in VR Environments. , 2019, , .		6
13	Visualization and analysis of RNA-Seq assembly graphs. Nucleic Acids Research, 2019, 47, 7262-7275.	14.5	4
14	Advances on Testing C-Planarity of Embedded Flat Clustered Graphs. International Journal of Foundations of Computer Science, 2019, 30, 197-230.	1.1	5
15	Fly with the flock: immersive solutions for animal movement visualization and analytics. Journal of the Royal Society Interface, 2019, 16, 20180794.	3.4	18
16	Tiled Stereoscopic 3D Display Wall - Concept, Applications and Evaluation. IS&T International Symposium on Electronic Imaging, 2019, 31, 641-1-641-15.	0.4	2
17	Mental-Map Preserving Visualisation of Partitioned Networks in Vanted. Journal of Integrative Bioinformatics, 2019, 16, .	1.5	2
18	Visual Analytics for Cheetah Behaviour Analysis. , 2019, , .		2

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19	TEAMwISE. , 2019, , .		2
20	Graph Thumbnails: Identifying and Comparing Multiple Graphs at a Glance. IEEE Transactions on Visualization and Computer Graphics, 2018, 24, 3081-3095.	4.4	31
21	Exploring the limits of complexity: A survey of empirical studies on graph visualisation. Visual Informatics, 2018, 2, 264-282.	4.4	48
22	A review and outlook on visual analytics for uncertainties in functional magnetic resonance imaging. Brain Informatics, 2018, 5, 5.	3.0	9
23	Immersive Analytics: An Introduction. Lecture Notes in Computer Science, 2018, , 1-23.	1.3	51
24	Immersive Analytics Applications in Life and Health Sciences. Lecture Notes in Computer Science, 2018, , 289-330.	1.3	7
25	A high-throughput approach to identify specific neurotoxicants / developmental toxicants in human neuronal cell function assays. ALTEX: Alternatives To Animal Experimentation, 2018, 35, 235-253.	1.5	46
26	The Graph Landscape: using visual analytics for graph set analysis. Journal of Visualization, 2017, 20, 417-432.	1.8	6
27	High-dimensional data visualization by interactive construction of low-dimensional parallel coordinate plots. Journal of Visual Languages and Computing, 2017, 43, 1-13.	1.8	27
28	Scaffold Hunter: a comprehensive visual analytics framework for drug discovery. Journal of Cheminformatics, 2017, 9, 28.	6.1	49
29	Immersive Collaborative Analysis of Network Connectivity: CAVE-style or Head-Mounted Display?. IEEE Transactions on Visualization and Computer Graphics, 2017, 23, 441-450.	4.4	133
30	3D-Stereoscopic Immersive Analytics Projects at Monash University and University of Konstanz. IS&T International Symposium on Electronic Imaging, 2017, 29, 179-187.	0.4	10
31	Algorithms and Characterizations for 2-Layer Fan-planarity: From Caterpillar to Stegosaurus. Journal of Graph Algorithms and Applications, 2017, 21, 81-102.	0.4	15
32	Shape-Based Quality Metrics for Large Graph Visualization. Journal of Graph Algorithms and Applications, 2017, 21, 29-53.	0.4	31
33	The Graph Landscape. , 2015, , .		1
34	Immersive Analytics. , 2015, , .		158
35	Key-Node-Separated Graph Clustering and Layouts for Human Relationship Graph Visualization. IEEE Computer Graphics and Applications, 2015, 35, 30-40.	1.2	17
36	A Visual Analytics Approach Using the Exploration of Multidimensional Feature Spaces for Content-Based Medical Image Retrieval. IEEE Journal of Biomedical and Health Informatics, 2015, 19, 1734-1746.	6.3	22

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37	Visual Analysis of Biological Activity Data with Scaffold Hunter. Molecular Informatics, 2013, 32, 964-975.	2.5	18
38	Analyzing and visualizing residue networks of protein structures. Trends in Biochemical Sciences, 2011, 36, 179-182.	7.5	244
39	Algorithm Engineering: Concepts and Practice. , 2010, , 131-158.		6
40	Interactive exploration of chemical space with Scaffold Hunter. Nature Chemical Biology, 2009, 5, 581-583.	8.0	207
41	Planarity Testing and Optimal Edge Insertion with Embedding Constraints. Journal of Graph Algorithms and Applications, 2008, 12, 73-95.	0.4	24
42	Automatic Layout of UML Class Diagrams in Orthogonal Style. Information Visualization, 2004, 3, 189-208.	1.9	24