Roberts S Laramee

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/4250937/publications.pdf

Version: 2024-02-01

99 papers	2,681 citations	257357 24 h-index	214721 47 g-index
103 all docs	103 docs citations	103 times ranked	1407 citing authors

#	Article	IF	Citations
1	The State of the Art in Flow Visualisation: Feature Extraction and Tracking. Computer Graphics Forum, 2003, 22, 775-792.	1.8	325
2	The State of the Art in Flow Visualization: Dense and Texture-Based Techniques. Computer Graphics Forum, 2004, 23, 203-221.	1.8	272
3	Over Two Decades of Integrationâ€Based, Geometric Flow Visualization. Computer Graphics Forum, 2010, 29, 1807-1829.	1.8	219
4	Data, Information, and Knowledge in Visualization. IEEE Computer Graphics and Applications, 2009, 29, 12-19.	1.0	196
5	Topology-Based Flow Visualization, The State of the Art. Mathematics and Visualization, 2007, , 1-19.	0.4	122
6	Vector Field Editing and Periodic Orbit Extraction Using Morse Decomposition. IEEE Transactions on Visualization and Computer Graphics, 2007, 13, 769-785.	2.9	103
7	Storytelling and Visualization: An Extended Survey. Information (Switzerland), 2018, 9, 65.	1.7	74
8	Efficient Morse Decompositions of Vector Fields. IEEE Transactions on Visualization and Computer Graphics, 2008, 14, 848-862.	2.9	60
9	Evenly Spaced Streamlines for Surfaces: An Imageâ€Based Approach. Computer Graphics Forum, 2009, 28, 1618-1631.	1.8	58
10	Survey of Surveys (SoS) â€•Mapping The Landscape of Survey Papers in Information Visualization. Computer Graphics Forum, 2017, 36, 589-617.	1.8	56
11	Surface-based flow visualization. Computers and Graphics, 2012, 36, 974-990.	1.4	54
12	Image space based visualization of unsteady flow on surfaces. , 0, , .		53
13	Prying into the intimate secrets of animal lives; software beyond hardware for comprehensive annotation in â€˜Daily Diaryâ€™ tags. Movement Ecology, 2015, 3, 29.	1.3	52
14	Similarity Measures for Enhancing Interactive Streamline Seeding. IEEE Transactions on Visualization and Computer Graphics, 2013, 19, 1342-1353.	2.9	49
15	ISA and IBFVS: image space-based visualization of flow on surfaces. IEEE Transactions on Visualization and Computer Graphics, 2004, 10, 637-648.	2.9	46
16	Asymmetric Tensor Analysis for Flow Visualization. IEEE Transactions on Visualization and Computer Graphics, 2009, 15, 106-122.	2.9	45
17	Investigating swirl and tumble flow with a comparison of visualization techniques. , 0, , .		44
18	Glyph sorting: Interactive visualization for multi-dimensional data. Information Visualization, 2015, 14, 76-90.	1.2	44

#	Article	IF	Citations
19	Visualization for the Physical Sciences. Computer Graphics Forum, 2012, 31, 2317-2347.	1.8	42
20	Molecular Graphics: Bridging Structural Biologists and Computer Scientists. Structure, 2019, 27, 1617-1623.	1.6	42
21	Angular Histograms: Frequency-Based Visualizations for Large, High Dimensional Data. IEEE Transactions on Visualization and Computer Graphics, 2011, 17, 2572-2580.	2.9	36
22	Visualisation of Sensor Data from Animal Movement. Computer Graphics Forum, 2009, 28, 815-822.	1.8	35
23	Smooth Graphs for Visual Exploration of Higher-Order State Transitions. IEEE Transactions on Visualization and Computer Graphics, 2009, 15, 969-976.	2.9	30
24	TimeClassifier: a visual analytic system for the classification of multi-dimensional time series data. Visual Computer, 2015, 31, 1067-1078.	2.5	27
25	SoS TextVis: An Extended Survey of Surveys on Text Visualization. Computers, 2019, 8, 17.	2.1	26
26	Visual Analysis and Exploration of Fluid Flow in a Cooling Jacket. , 0, , .		25
27	Asymmetric Tensor Field Visualization for Surfaces. IEEE Transactions on Visualization and Computer Graphics, 2011, 17, 1979-1988.	2.9	24
28	Automatic Stream Surface Seeding: A Feature Centered Approach. Computer Graphics Forum, 2012, 31, 1095-1104.	1.8	24
29	Morse Set Classification and Hierarchical Refinement Using Conley Index. IEEE Transactions on Visualization and Computer Graphics, 2012, 18, 767-782.	2.9	22
30	Extraction and Visualization of Swirl and Tumble Motion from Engine Simulation Data. Mathematics and Visualization, 2007, , 121-135.	0.4	22
31	Smart Brushing for Parallel Coordinates. IEEE Transactions on Visualization and Computer Graphics, 2019, 25, 1575-1590.	2.9	21
32	Easy integral surfaces. , 2009, , .		19
33	Mesh-Driven Vector Field Clustering and Visualization: An Image-Based Approach. IEEE Transactions on Visualization and Computer Graphics, 2012, 18, 283-298.	2.9	19
34	Feature Surfaces in Symmetric Tensor Fields Based on Eigenvalue Manifold. IEEE Transactions on Visualization and Computer Graphics, 2016, 22, 1248-1260.	2.9	19
35	VIS30K: A Collection of Figures and Tables From IEEE Visualization Conference Publications. IEEE Transactions on Visualization and Computer Graphics, 2021, 27, 3826-3833.	2.9	19
36	Interactive visualization literacy: The state-of-the-art. Information Visualization, 2022, 21, 285-310.	1.2	19

#	Article	IF	Citations
37	How Ordered Is It? On the Perceptual Orderability of Visual Channels. Computer Graphics Forum, 2016, 35, 131-140.	1.8	17
38	Visualising Business Data: A Survey. Information (Switzerland), 2018, 9, 285.	1.7	17
39	Applications of Texture-Based Flow Visualization. Engineering Applications of Computational Fluid Mechanics, 2008, 2, 264-274.	1.5	16
40	Knowledge-Assisted Ranking: A Visual Analytic Application for Sports Event Data. IEEE Computer Graphics and Applications, 2016, 36, 72-82.	1.0	15
41	Challenges and Unsolved Problems. , 2007, , 231-254.		15
42	Visual Reconstructability as a Quality Metric for Flow Visualization. Computer Graphics Forum, 2011, 30, 781-790.	1.8	13
43	How to Read a Visualization Research Paper: Extracting the Essentials. IEEE Computer Graphics and Applications, 2011, 31, 78-82.	1.0	13
44	RAMPVIS: Answering the challenges of building visualisation capabilities for large-scale emergency responses. Epidemics, 2022, 39, 100569.	1.5	13
45	An Isosurface Continuity Algorithm for Super Adaptive Resolution Data *. , 2002, , 215-237.		12
46	ShakerVis: Visual analysis of segment variation of German translations of Shakespeareâ€™s Othello. Information Visualization, 2015, 14, 273-288.	1.2	10
47	Visual Analysis and Exploration of Fluid Flow in a Cooling Jacket. , 0, , .		8
48	Image Space Advection on graphics hardware. , 2005, , .		8
49	An integral curve attribute based flow segmentation. Journal of Visualization, 2016, 19, 423-436.	1.1	8
50	A Provenance Task Abstraction Framework. IEEE Computer Graphics and Applications, 2019, 39, 46-60.	1.0	8
51	EHR STAR: The Stateâ€Ofâ€theâ€Art in Interactive EHR Visualization. Computer Graphics Forum, 2022, 41, 69-105.	1.8	8
52	Visual interference with a transparent head mounted display. , 2001, , .		7
53	FIRST: a flexible and interactive resampling tool for CFD simulation data. Computers and Graphics, 2003, 27, 905-916.	1.4	7
54	How to Write a Visualization Research Paper: A Starting Point. Computer Graphics Forum, 2010, 29, 2363-2371.	1.8	7

#	Article	IF	Citations
55	Geometric flow visualization techniques for CFD simulation data. , 2005, , .		6
56	FoamVis: Visualization of 2D Foam Simulation Data. IEEE Transactions on Visualization and Computer Graphics, 2011, 17, 2096-2105.	2.9	6
57	Visualization for Smart City Applications. IEEE Computer Graphics and Applications, 2018, 38, 36-37.	1.0	6
58	VNLP: Visible natural language processing. Information Visualization, 2021, 20, 245-262.	1.2	6
59	Bringing Topology-Based Flow Visualization to the Application Domain. Mathematics and Visualization, 2009, , 161-176.	0.4	6
60	Interaction Techniques for Chord Diagrams. , 2020, , .		6
61	Comparing and evaluating computer graphics and visualization software. Software - Practice and Experience, 2008, 38, 735-760.	2.5	5
62	Constructing streak surfaces for 3D unsteady vector fields. , 2010, , .		5
63	Multivariate Mapsâ€"A Glyph-Placement Algorithm to Support Multivariate Geospatial Visualization. Information (Switzerland), 2019, 10, 302.	1.7	5
64	Glyph-Based Multi-field Visualization. Mathematics and Visualization, 2014, , 129-137.	0.4	5
65	2D Asymmetric Tensor Field Topology. Mathematics and Visualization, 2012, , 191-204.	0.4	5
66	Inclusivity for visualization education: a brief History, investigation, and guidelines. DiÃ¡logo Com A Economia Criativa, 2019, 4, 146-160.	0.0	5
67	Using Visualization to Debug Visualization Software. IEEE Computer Graphics and Applications, 2010, 30, 67-73.	1.0	4
68	Force-Directed Parallel Coordinates. , 2013, , .		4
69	Integral Curve Clustering and Simplification for Flow Visualization: A Comparative Evaluation. IEEE Transactions on Visualization and Computer Graphics, 2021, 27, 1967-1985.	2.9	4
70	Topology-based versus Feature-based Flow Analysis â€“ Challenges and an Application. Mathematics and Visualization, 2007, , 79-90.	0.4	4
71	AlignVis: Semi-automatic Alignment and Visualization of Parallel Translations. , 2020, , .		4
72	Visualizing Translation Variation: Shakespeareâ€™s Othello. Lecture Notes in Computer Science, 2011, , 653-663.	1.0	4

#	Article	IF	Citations
73	Visualization Resources: A Starting Point. , 2021, , .		4
74	P-Lite: A study of parallel coordinate plot literacy. Visual Informatics, 2022, 6, 81-99.	2.5	4
75	VisLitE: Visualization Literacy and Evaluation. IEEE Computer Graphics and Applications, 2022, 42, 99-107.	1.0	4
76	Design and implementation of geometric and texture-based flow visualization techniques. , 2005, , .		3
77	Dynamic Choropleth Maps â€“ Using Amalgamation to Increase Area Perceivability. , 2018, , .		3
78	Compute and Visualize Discontinuity Among Neighboring Integral Curves of 2D Vector Fields. Mathematics and Visualization, 2017, , 187-203.	0.4	3
79	TransVis: Integrated Distant and Close Reading of Othello Translations. IEEE Transactions on Visualization and Computer Graphics, 2022, 28, 1397-1414.	2.9	3
80	Visualizing the dynamics of two-dimensional foams with FoamVis. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2013, 438, 28-32.	2.3	2
81	Design of a Flow Visualisation Framework. Computers, 2015, 4, 24-38.	2.1	2
82	Multi-Retranslation Corpora: Visibility, Variation, Value, and Virtue. Literary and Linguistic Computing, 0, , .	0.6	2
83	Feature-Rich, GPU-Assisted Scatterplots for Millions of Call Events. Computers, 2019, 8, 12.	2.1	2
84	Unsteady Flow Visualization via Physics Based Pathline Exploration. , 2019, , .		2
85	Physicsâ€based Pathline Clustering and Exploration. Computer Graphics Forum, 2021, 40, 22-37.	1.8	2
86	A distribution-based approach to tracking points in velocity vector fields. , 2009, , .		1
87	Visualizing multiple error-sensitivity fields for single camera positioning. Computing and Visualization in Science, 2012, 15, 303-317.	1.2	1
88	Visualization of flow past a marine turbine: the information-assisted search for sustainable energy. Computing and Visualization in Science, 2013, 16, 89-103.	1.2	1
89	FoamVis, A Visualization System for Foam Research: Design and Implementation. Computers, 2015, 4, 39-60.	2.1	1
90	QCDVis: a tool for the visualisation of Quantum Chromodynamics (QCD) data. Computers and Graphics, 2017, 67, 115-126.	1.4	1

#	Article	IF	Citations
91	QCDVis. , 2017, , .		1
92	AgentVis: Visual Analysis of Agent Behavior With Hierarchical Glyphs. IEEE Transactions on Visualization and Computer Graphics, 2021, 27, 3626-3643.	2.9	1
93	LetterVis: a letter-space view of clinic letters. Visual Computer, 2021, 37, 2643-2656.	2.5	1
94	Dynamic Chunking for Out-of-Core Volume Visualization Applications. Lecture Notes in Computer Science, 2009, , 117-128.	1.0	1
95	Bobâ€™s Project Guidelines: Writing a Dissertation for a BSc. in Computer Science. Innovations in Teaching and Learning in Information and Computer Sciences, 2011, 10, 43-54.	0.2	0
96	Joint Contour Net Analysis for Feature Detection in Lattice Quantum Chromodynamics Data. Big Data Research, 2019, 15, 29-42.	2.6	0
97	From Data Chaos to the Visualization Cosmos. , 2019, , .		0
98	Cooperative Digital Humanities: A Methodology. Lecture Notes in Computer Science, 2021, , 53-62.	1.0	0
99	Visual interference with a transparent head mounted display. , 2001, , .		0