

Roberts S Laramée

List of Publications by Year in descending order

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99
papers

2,681
citations

257357
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docs citations

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times ranked

1407
citing authors

#	ARTICLE	IF	CITATIONS
1	TransVis: Integrated Distant and Close Reading of Othello Translations. IEEE Transactions on Visualization and Computer Graphics, 2022, 28, 1397-1414.	2.9	3
2	EHR STAR: The State-of-the-Art in Interactive EHR Visualization. Computer Graphics Forum, 2022, 41, 69-105.	1.8	8
3	Interactive visualization literacy: The state-of-the-art. Information Visualization, 2022, 21, 285-310.	1.2	19
4	RAMPVIS: Answering the challenges of building visualisation capabilities for large-scale emergency responses. Epidemics, 2022, 39, 100569.	1.5	13
5	P-Lite: A study of parallel coordinate plot literacy. Visual Informatics, 2022, 6, 81-99.	2.5	4
6	VisLitE: Visualization Literacy and Evaluation. IEEE Computer Graphics and Applications, 2022, 42, 99-107.	1.0	4
7	AgentVis: Visual Analysis of Agent Behavior With Hierarchical Glyphs. IEEE Transactions on Visualization and Computer Graphics, 2021, 27, 3626-3643.	2.9	1
8	Physics-based Pathline Clustering and Exploration. Computer Graphics Forum, 2021, 40, 22-37.	1.8	2
9	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
10	LetterVis: a letter-space view of clinic letters. Visual Computer, 2021, 37, 2643-2656.	2.5	1
11	VNLP: Visible natural language processing. Information Visualization, 2021, 20, 245-262.	1.2	6
12	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
13	Cooperative Digital Humanities: A Methodology. Lecture Notes in Computer Science, 2021, , 53-62.	1.0	0
14	Visualization Resources: A Starting Point. , 2021, , .		4
15	AlignVis: Semi-automatic Alignment and Visualization of Parallel Translations. , 2020, , .		4
16	Interaction Techniques for Chord Diagrams. , 2020, , .		6
17	Smart Brushing for Parallel Coordinates. IEEE Transactions on Visualization and Computer Graphics, 2019, 25, 1575-1590.	2.9	21
18	A Provenance Task Abstraction Framework. IEEE Computer Graphics and Applications, 2019, 39, 46-60.	1.0	8

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19	Multivariate Mapsâ€”A Glyph-Placement Algorithm to Support Multivariate Geospatial Visualization. Information (Switzerland), 2019, 10, 302.	1.7	5
20	Molecular Graphics: Bridging Structural Biologists and Computer Scientists. Structure, 2019, 27, 1617-1623.	1.6	42
21	SoS TextVis: An Extended Survey of Surveys on Text Visualization. Computers, 2019, 8, 17.	2.1	26
22	Joint Contour Net Analysis for Feature Detection in Lattice Quantum Chromodynamics Data. Big Data Research, 2019, 15, 29-42.	2.6	0
23	Feature-Rich, GPU-Assisted Scatterplots for Millions of Call Events. Computers, 2019, 8, 12.	2.1	2
24	From Data Chaos to the Visualization Cosmos. , 2019, , .		0
25	Unsteady Flow Visualization via Physics Based Pathline Exploration. , 2019, , .		2
26	Inclusivity for visualization education: a brief History, investigation, and guidelines. DiÃ¡logo Com A Economia Criativa, 2019, 4, 146-160.	0.0	5
27	Visualising Business Data: A Survey. Information (Switzerland), 2018, 9, 285.	1.7	17
28	Dynamic Choropleth Maps â€” Using Amalgamation to Increase Area Perceivability. , 2018, , .		3
29	Storytelling and Visualization: An Extended Survey. Information (Switzerland), 2018, 9, 65.	1.7	74
30	Visualization for Smart City Applications. IEEE Computer Graphics and Applications, 2018, 38, 36-37.	1.0	6
31	Survey of Surveys (SoS) â€”Mapping The Landscape of Survey Papers in Information Visualization. Computer Graphics Forum, 2017, 36, 589-617.	1.8	56
32	QCDVis: a tool for the visualisation of Quantum Chromodynamics (QCD) data. Computers and Graphics, 2017, 67, 115-126.	1.4	1
33	QCDVis. , 2017, , .		1
34	Compute and Visualize Discontinuity Among Neighboring Integral Curves of 2D Vector Fields. Mathematics and Visualization, 2017, , 187-203.	0.4	3
35	How Ordered Is It? On the Perceptual Orderability of Visual Channels. Computer Graphics Forum, 2016, 35, 131-140.	1.8	17
36	Feature Surfaces in Symmetric Tensor Fields Based on Eigenvalue Manifold. IEEE Transactions on Visualization and Computer Graphics, 2016, 22, 1248-1260.	2.9	19

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37	An integral curve attribute based flow segmentation. Journal of Visualization, 2016, 19, 423-436.	1.1	8
38	Knowledge-Assisted Ranking: A Visual Analytic Application for Sports Event Data. IEEE Computer Graphics and Applications, 2016, 36, 72-82.	1.0	15
39	ShakerVis: Visual analysis of segment variation of German translations of Shakespeare's Othello. Information Visualization, 2015, 14, 273-288.	1.2	10
40	Design of a Flow Visualisation Framework. Computers, 2015, 4, 24-38.	2.1	2
41	FoamVis, A Visualization System for Foam Research: Design and Implementation. Computers, 2015, 4, 39-60.	2.1	1
42	TimeClassifier: a visual analytic system for the classification of multi-dimensional time series data. Visual Computer, 2015, 31, 1067-1078.	2.5	27
43	Prying into the intimate secrets of animal lives; software beyond hardware for comprehensive annotation in "Daily Diary" tags. Movement Ecology, 2015, 3, 29.	1.3	52
44	Glyph sorting: Interactive visualization for multi-dimensional data. Information Visualization, 2015, 14, 76-90.	1.2	44
45	Glyph-Based Multi-field Visualization. Mathematics and Visualization, 2014, , 129-137.	0.4	5
46	Similarity Measures for Enhancing Interactive Streamline Seeding. IEEE Transactions on Visualization and Computer Graphics, 2013, 19, 1342-1353.	2.9	49
47	Force-Directed Parallel Coordinates. , 2013, , .		4
48	Visualizing the dynamics of two-dimensional foams with FoamVis. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2013, 438, 28-32.	2.3	2
49	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
50	Visualization for the Physical Sciences. Computer Graphics Forum, 2012, 31, 2317-2347.	1.8	42
51	Surface-based flow visualization. Computers and Graphics, 2012, 36, 974-990.	1.4	54
52	Visualizing multiple error-sensitivity fields for single camera positioning. Computing and Visualization in Science, 2012, 15, 303-317.	1.2	1
53	Morse Set Classification and Hierarchical Refinement Using Conley Index. IEEE Transactions on Visualization and Computer Graphics, 2012, 18, 767-782.	2.9	22
54	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

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55	Automatic Stream Surface Seeding: A Feature Centered Approach. Computer Graphics Forum, 2012, 31, 1095-1104.	1.8	24
56	2D Asymmetric Tensor Field Topology. Mathematics and Visualization, 2012, , 191-204.	0.4	5
57	Angular Histograms: Frequency-Based Visualizations for Large, High Dimensional Data. IEEE Transactions on Visualization and Computer Graphics, 2011, 17, 2572-2580.	2.9	36
58	Asymmetric Tensor Field Visualization for Surfaces. IEEE Transactions on Visualization and Computer Graphics, 2011, 17, 1979-1988.	2.9	24
59	Bob'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
60	Visual Reconstructability as a Quality Metric for Flow Visualization. Computer Graphics Forum, 2011, 30, 781-790.	1.8	13
61	How to Read a Visualization Research Paper: Extracting the Essentials. IEEE Computer Graphics and Applications, 2011, 31, 78-82.	1.0	13
62	FoamVis: Visualization of 2D Foam Simulation Data. IEEE Transactions on Visualization and Computer Graphics, 2011, 17, 2096-2105.	2.9	6
63	Visualizing Translation Variation: Shakespeare's Othello. Lecture Notes in Computer Science, 2011, , 653-663.	1.0	4
64	Using Visualization to Debug Visualization Software. IEEE Computer Graphics and Applications, 2010, 30, 67-73.	1.0	4
65	Over Two Decades of Integration-Based, Geometric Flow Visualization. Computer Graphics Forum, 2010, 29, 1807-1829.	1.8	219
66	How to Write a Visualization Research Paper: A Starting Point. Computer Graphics Forum, 2010, 29, 2363-2371.	1.8	7
67	Constructing streak surfaces for 3D unsteady vector fields. , 2010, , .		5
68	A distribution-based approach to tracking points in velocity vector fields. , 2009, , .		1
69	Easy integral surfaces. , 2009, , .		19
70	Evenly Spaced Streamlines for Surfaces: An Image-Based Approach. Computer Graphics Forum, 2009, 28, 1618-1631.	1.8	58
71	Visualisation of Sensor Data from Animal Movement. Computer Graphics Forum, 2009, 28, 815-822.	1.8	35
72	Asymmetric Tensor Analysis for Flow Visualization. IEEE Transactions on Visualization and Computer Graphics, 2009, 15, 106-122.	2.9	45

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73	Smooth Graphs for Visual Exploration of Higher-Order State Transitions. IEEE Transactions on Visualization and Computer Graphics, 2009, 15, 969-976.	2.9	30
74	Data, Information, and Knowledge in Visualization. IEEE Computer Graphics and Applications, 2009, 29, 12-19.	1.0	196
75	Bringing Topology-Based Flow Visualization to the Application Domain. Mathematics and Visualization, 2009, , 161-176.	0.4	6
76	Dynamic Chunking for Out-of-Core Volume Visualization Applications. Lecture Notes in Computer Science, 2009, , 117-128.	1.0	1
77	Comparing and evaluating computer graphics and visualization software. Software - Practice and Experience, 2008, 38, 735-760.	2.5	5
78	Efficient Morse Decompositions of Vector Fields. IEEE Transactions on Visualization and Computer Graphics, 2008, 14, 848-862.	2.9	60
79	Applications of Texture-Based Flow Visualization. Engineering Applications of Computational Fluid Mechanics, 2008, 2, 264-274.	1.5	16
80	Vector Field Editing and Periodic Orbit Extraction Using Morse Decomposition. IEEE Transactions on Visualization and Computer Graphics, 2007, 13, 769-785.	2.9	103
81	Topology-Based Flow Visualization, The State of the Art. Mathematics and Visualization, 2007, , 1-19.	0.4	122
82	Topology-based versus Feature-based Flow Analysis – Challenges and an Application. Mathematics and Visualization, 2007, , 79-90.	0.4	4
83	Extraction and Visualization of Swirl and Tumble Motion from Engine Simulation Data. Mathematics and Visualization, 2007, , 121-135.	0.4	22
84	Challenges and Unsolved Problems. , 2007, , 231-254.		15
85	Image Space Advection on graphics hardware. , 2005, , .		8
86	Geometric flow visualization techniques for CFD simulation data. , 2005, , .		6
87	Design and implementation of geometric and texture-based flow visualization techniques. , 2005, , .		3
88	The State of the Art in Flow Visualization: Dense and Texture-Based Techniques. Computer Graphics Forum, 2004, 23, 203-221.	1.8	272
89	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
90	The State of the Art in Flow Visualisation: Feature Extraction and Tracking. Computer Graphics Forum, 2003, 22, 775-792.	1.8	325

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91	FIRST: a flexible and interactive resampling tool for CFD simulation data. Computers and Graphics, 2003, 27, 905-916.	1.4	7
92	An Isosurface Continuity Algorithm for Super Adaptive Resolution Data *. , 2002, , 215-237.		12
93	Visual interference with a transparent head mounted display. , 2001, , .		7
94	Visual interference with a transparent head mounted display. , 2001, , .		0
95	Image space based visualization of unsteady flow on surfaces. , 0, , .		53
96	Investigating swirl and tumble flow with a comparison of visualization techniques. , 0, , .		44
97	Visual Analysis and Exploration of Fluid Flow in a Cooling Jacket. , 0, , .		8
98	Visual Analysis and Exploration of Fluid Flow in a Cooling Jacket. , 0, , .		25
99	Multi-Retranslation Corpora: Visibility, Variation, Value, and Virtue. Literary and Linguistic Computing, 0, , .	0.6	2