

Christophe Hurter

List of Publications by Year in descending order

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105
papers

1,945
citations

430843

18
h-index

361001

35
g-index

106
all docs

106
docs citations

106
times ranked

1239
citing authors

#	ARTICLE	IF	CITATIONS
1	Skeleton-Based Edge Bundling for Graph Visualization. IEEE Transactions on Visualization and Computer Graphics, 2011, 17, 2364-2373.	4.4	111
2	Graph Bundling by Kernel Density Estimation. Computer Graphics Forum, 2012, 31, 865-874.	3.0	109
3	FromDaDy: Spreading Aircraft Trajectories Across Views to Support Iterative Queries. IEEE Transactions on Visualization and Computer Graphics, 2009, 15, 1017-1024.	4.4	107
4	A Descriptive Framework for Temporal Data Visualizations Based on Generalized Space-Time Cubes. Computer Graphics Forum, 2017, 36, 36-61.	3.0	106
5	Understanding Data Videos. , 2015, , .		92
6	From movement tracks through events to places: Extracting and characterizing significant places from mobility data. , 2011, , .		76
7	FiberClay: Sculpting Three Dimensional Trajectories to Reveal Structural Insights. IEEE Transactions on Visualization and Computer Graphics, 2019, 25, 704-714.	4.4	76
8	Scalable Analysis of Movement Data for Extracting and Exploring Significant Places. IEEE Transactions on Visualization and Computer Graphics, 2013, 19, 1078-1094.	4.4	75
9	IATK: An Immersive Analytics Toolkit. , 2019, , .		75
10	Visualization, Selection, and Analysis of Traffic Flows. IEEE Transactions on Visualization and Computer Graphics, 2016, 22, 379-388.	4.4	59
11	Bundled Visualization of DynamicGraph and Trail Data. IEEE Transactions on Visualization and Computer Graphics, 2014, 20, 1141-1157.	4.4	57
12	MoleView: An Attribute and Structure-Based Semantic Lens for Large Element-Based Plots. IEEE Transactions on Visualization and Computer Graphics, 2011, 17, 2600-2609.	4.4	52
13	State of the Art in Edge and Trail Bundling Techniques. Computer Graphics Forum, 2017, 36, 619-645.	3.0	52
14	Animations 25 Years Later. , 2016, , .		51
15	Towards Unambiguous Edge Bundling: Investigating Confluent Drawings for Network Visualization. IEEE Transactions on Visualization and Computer Graphics, 2017, 23, 541-550.	4.4	46
16	Transmogrification. , 2013, , .		40
17	A Survey on Artificial Intelligence (AI) and eXplainable AI in Air Traffic Management: Current Trends and Development with Future Research Trajectory. Applied Sciences (Switzerland), 2022, 12, 1295.	2.5	40
18	Attribute-driven edge bundling for general graphs with applications in trail analysis. , 2015, , .		39

#	ARTICLE	IF	CITATIONS
19	Tangible augmented reality for air traffic control. <i>Interactions</i> , 2014, 21, 54-57.	1.0	31
20	Interactive image-based information visualization for aircraft trajectory analysis. <i>Transportation Research Part C: Emerging Technologies</i> , 2014, 47, 207-227.	7.6	29
21	Data Visceralization: Enabling Deeper Understanding of Data Using Virtual Reality. <i>IEEE Transactions on Visualization and Computer Graphics</i> , 2021, 27, 1095-1105.	4.4	27
22	How Do Display Design and User Characteristics Matter in Animations? An Empirical Study with Air Traffic Control Displays. <i>Cartographica</i> , 2016, 51, 25-37.	0.4	24
23	How Neurophysiological Measures Can be Used to Enhance the Evaluation of Remote Tower Solutions. <i>Frontiers in Human Neuroscience</i> , 2019, 13, 303.	2.0	23
24	Pulse and vital sign measurement in mixed reality using a HoloLens. , 2017, , .		22
25	FFTEB: Edge bundling of huge graphs by the Fast Fourier Transform. , 2017, , .		21
26	Strip'TIC. , 2012, , .		20
27	Histomages. , 2012, , .		20
28	Wind parameters extraction from aircraft trajectories. <i>Computers, Environment and Urban Systems</i> , 2014, 47, 28-43.	7.1	20
29	Smooth bundling of large streaming and sequence graphs. , 2013, , .		19
30	Immersive solutions for future Air Traffic Control and Management. , 2016, , .		18
31	Functional Decomposition for Bundled Simplification of Trail Sets. <i>IEEE Transactions on Visualization and Computer Graphics</i> , 2018, 24, 500-510.	4.4	18
32	Cardiolens. , 2017, , .		16
33	Visualization of Frequent Itemsets with Nested Circular Layout and Bundling Algorithm. <i>Lecture Notes in Computer Science</i> , 2013, , 396-405.	1.3	16
34	An automatic generation of schematic maps to display flight routes for air traffic controllers. , 2010, , .		15
35	Visual scanning as a reference framework for interactive representation design. <i>Information Visualization</i> , 2011, 10, 196-211.	1.9	15
36	Flights in my hands. , 2013, , .		14

#	ARTICLE	IF	CITATIONS
37	Color Tunneling: Interactive Exploration and Selection in Volumetric Datasets. , 2014, , .		14
38	Analysis and Visualization of Citation Networks. Synthesis Lectures on Visualization, 2015, 3, 1-127.	0.1	13
39	Path Word. , 2018, , .		13
40	Exploring spatiotemporal patterns by integrating visual analytics with a moving objects database system. , 2011, , .		12
41	Improving eye-tracking calibration accuracy using symbolic regression. PLoS ONE, 2019, 14, e0213675.	2.5	12
42	Assessing how visual search entropy and engagement predict performance in a multiple-objects tracking air traffic control task. Computers in Human Behavior Reports, 2021, 4, 100127.	4.0	12
43	Dear Pictograph: Investigating the Role of Personalization and Immersion for Consuming and Enjoying Visualizations. , 2020, , .		12
44	Human-Machine Interaction Assessment by Neurophysiological Measures: A Study on Professional Air Traffic Controllers. , 2018, 2018, 4619-4622.		11
45	Multisensory Immersive Analytics. Lecture Notes in Computer Science, 2018, , 57-94.	1.3	11
46	Eye Movements Data Processing for Ab Initio Military Pilot Training. Smart Innovation, Systems and Technologies, 2015, , 125-135.	0.6	11
47	Scan path visualization and comparison using visual aggregation techniques. Journal of Eye Movement Research, 2017, 10, .	0.8	11
48	Scalability Considerations for Multivariate Graph Visualization. Lecture Notes in Computer Science, 2014, , 207-235.	1.3	10
49	Interactive obstruction-free lensing for volumetric data visualization. IEEE Transactions on Visualization and Computer Graphics, 2019, 25, 1029-1039.	4.4	10
50	Active progress bars. , 2011, , .		8
51	Data visualization techniques for airspace flow modeling. , 2012, , .		8
52	Audio Focus: Interactive spatial sound coupled with haptics to improve sound source location in poor visibility. International Journal of Human Computer Studies, 2019, 129, 116-128.	5.6	8
53	ShapeWordle: Tailoring Wordles using Shape-aware Archimedean Spirals. IEEE Transactions on Visualization and Computer Graphics, 2020, 26, 991-1000.	4.4	8
54	Interactive Structure-aware Blending of Diverse Edge Bundling Visualizations. IEEE Transactions on Visualization and Computer Graphics, 2020, 26, 687-696.	4.4	8

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55	On-Body Tangible Interaction: Using the Body to Support Tangible Manipulations for Immersive Environments. Lecture Notes in Computer Science, 2019, , 471-492.	1.3	8
56	A descriptive model of visual scanning. , 2010, , .		7
57	Flex-ER. Proceedings of the ACM on Human-Computer Interaction, 2020, 4, 1-20.	3.3	7
58	A solution to interface evolution issues. , 2008, , .		5
59	Towards Characterizing Visualizations. Lecture Notes in Computer Science, 2008, , 287-293.	1.3	5
60	VETA: Visual eye-tracking analytics for the exploration of gaze patterns and behaviours. Visual Informatics, 2022, 6, 1-13.	4.4	5
61	EOG-Based Human-Computer Interface: 2000-2020 Review. Sensors, 2022, 22, 4914.	3.8	5
62	Air Traffic Analysis. , 0, , 240-258.		4
63	Visual analytics for the interpretation of fluency tests during Alzheimer evaluation. , 2015, , .		4
64	CAP: Collaborative advanced planning, trade-off between airspace management and optimized flight performance: Demonstration of En-Route reduced airspace congestion through collaborative flight planning. , 2016, , .		4
65	When Paper Meets Multi-touch: A Study of Multi-modal Interactions in Air Traffic Control. Lecture Notes in Computer Science, 2013, , 196-213.	1.3	4
66	Eye-tracking and Virtual Reality in 360-degrees: exploring two ways to assess attentional orienting in rear space. , 2020, , .		4
67	Extension d'un modÃ©le de visualisation pour la caractÃ©risation d'interfaces graphiques dynamiques. , 2007, , .		3
68	ReprÃ©sentations Ã©cologiques de donnÃ©es temporelles. , 2009, , .		3
69	Multidimensional Data Exploration by Explicitly Controlled Animation. Informatics, 2017, 4, 26.	3.9	3
70	On-Body tangible interaction. , 2018, , .		3
71	Attentional orienting in real and virtual 360-degree environments. , 2019, , .		3
72	Attentional orienting in virtual reality using endogenous and exogenous cues in auditory and visual modalities. , 2019, , .		3

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73	The Physiological User's Response as a Clue to Assess Visual Variables Effectiveness. Lecture Notes in Computer Science, 2009, , 167-176.	1.3	3
74	Active Progress Bar: Aiding the switch to temporary activities. , 2012, , .		3
75	Exploratory study with eye tracking devices to build interactive systems for air traffic controllers. , 2016, , .		3
76	Eye Gesture in a Mixed Reality Environment. , 2019, , .		3
77	Investigating Multimodal Augmentations Contribution to Remote Control Tower Contexts for Air Traffic Management. , 2019, , .		3
78	From Visualization to Association Rules. , 2013, , .		2
79	e-ATC. , 2015, , .		2
80	InPhysible: Camouflage Against Video-Based Physiological Measurement. , 2018, 2018, 5784-5789.		2
81	EyeFlow. , 2019, , .		2
82	Modalflow: Cross-Origin Flow Data Visualization for Urban Mobility. Algorithms, 2020, 13, 298.	2.1	2
83	Bridging Software Evolution's Gap: The Multilayer Concept. Lecture Notes in Computer Science, 2009, , 266-275.	1.3	2
84	Uncertainty visualization of gaze estimation to support operator-controlled calibration. Journal of Eye Movement Research, 2017, 10, .	0.8	2
85	Etude exploratoire du stylo Électronique pour le Contrôle Écran. , 2011, , .		1
86	Interactive exploration and selection in volumetric datasets with color tunneling. , 2014, , .		1
87	Bundling, graph simplification through visual aggregation. , 2015, , .		1
88	Interactive Exploration of 3D Scanned Baggage. IEEE Computer Graphics and Applications, 2017, 37, 27-33.	1.2	1
89	Experimenting and Improving Perception of 3D Rotation-Based Transitions between 2D Visualizations. Lecture Notes in Computer Science, 2011, , 531-534.	1.3	1
90	Attentional Orienting in Front and Rear Spaces in a Virtual Reality Discrimination Task. Vision (Switzerland), 2022, 6, 3.	1.2	1

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91	Interactive trajectory modification and generation with FPCA. CEAS Aeronautical Journal, 0, , .	1.7	1
92	Taxinomie de reprÃ©sentations graphiques dynamiques. , 2007, , .		0
93	CÃ©nÃ©ration et placement de couleurs sur une vue de type mÃ©tro. , 2009, , .		0
94	AmÃ©lioration du circuit visuel des contrÃªleurs aÃ©riens pour relier les donnÃ©es entre visualisations en utilisant des transitions animÃ©es. , 2011, , .		0
95	Utilisation d'outils de visual data mining pour l'exploration d'un ensemble de rÃ©gles d'association. , 2011, , .		0
96	Gesture-based interaction for Strip'TIC, a tangible space for air traffic controllers. , 2014, , .		0
97	PiGaT (PilotGazeTrainer). , 2016, , .		0
98	Intuitive visualization technique to support eye tracking data analysis. , 2018, , .		0
99	Structure-Aware Trail Bundling for Large DTI Datasets. Algorithms, 2020, 13, 316.	2.1	0
100	Assessing and Improving 3D Rotation Transition in Dense Visualizations. , 0, , .		0
101	Session details: Visualizing Data. , 2015, , .		0
102	Data Multiplexing Through Animated Texture Orientation and Color. , 2019, , .		0
103	Automatic Detection of Epileptic Spikes in Intracerebral EEG with Convolutional Kernel Density Estimation. , 2020, , .		0
104	Involving Hearing, Haptics and Kinesthetics into Non-visual Interaction Concepts for an Augmented Remote Tower Environment. Communications in Computer and Information Science, 2020, , 73-100.	0.5	0
105	Target Netgrams: An Annulus-Constrained Stress Model for Radial Graph Visualization. IEEE Transactions on Visualization and Computer Graphics, 2022, , 1-13.	4.4	0