Cagatay Turkay

List of Publications by Year
in descending order

51 papers	946 citations	471509 17 h-index	477307 29 g-index
55 all docs	55 docs citations	55 times ranked	959 citing authors

#	Article	IF	Citations
1	The State of the Art in Integrating Machine Learning into Visual Analytics. Computer Graphics Forum, 2017, 36, 458-486.	3.0	145
2	Brushing Dimensions - A Dual Visual Analysis Model for High-Dimensional Data. IEEE Transactions on Visualization and Computer Graphics, 2011, 17, 2591-2599.	4.4	68
3	Designing Progressive and Interactive Analytics Processes for High-Dimensional Data Analysis. IEEE Transactions on Visualization and Computer Graphics, 2017, 23, 131-140.	4.4	54
4	Visual cavity analysis in molecular simulations. BMC Bioinformatics, 2013, 14, S4.	2.6	52
5	Supporting Story Synthesis: Bridging the Gap between Visual Analytics and Storytelling. IEEE Transactions on Visualization and Computer Graphics, 2020, 26, 2499-2516.	4.4	51
6	Representative Factor Generation for the Interactive Visual Analysis of High-Dimensional Data. IEEE Transactions on Visualization and Computer Graphics, 2012, 18, 2621-2630.	4.4	47
7	Attribute Signatures: Dynamic Visual Summaries for Analyzing Multivariate Geographical Data. IEEE Transactions on Visualization and Computer Graphics, 2014, 20, 2033-2042.	4.4	42
8	Visualizing Multiple Variables Across Scale and Geography. IEEE Transactions on Visualization and Computer Graphics, 2016, 22, 599-608.	4.4	40
9	Map LineUps: Effects of spatial structure on graphical inference. IEEE Transactions on Visualization and Computer Graphics, 2017, 23, 391-400.	4.4	39
10	On Computationally-Enhanced Visual Analysis of Heterogeneous Data and Its Application in Biomedical Informatics. Lecture Notes in Computer Science, 2014, , 117-140.	1.3	37
11	Small Multiples with Gaps. IEEE Transactions on Visualization and Computer Graphics, 2017, 23, 381-390.	4.4	28
12	Interactive Visual Analysis of Temporal Cluster Structures. Computer Graphics Forum, 2011, 30, 711-720.	3.0	24
13	VASABI: Hierarchical User Profiles for Interactive Visual User Behaviour Analytics. IEEE Transactions on Visualization and Computer Graphics, 2020, 26, 77-86.	4.4	24
14	Revisiting the Modifiable Areal Unit Problem in Deep Traffic Prediction with Visual Analytics. IEEE Transactions on Visualization and Computer Graphics, 2021, 27, 839-848.	4.4	24
15	Understanding User Behaviour through Action Sequences: From the Usual to the Unusual. IEEE Transactions on Visualization and Computer Graphics, 2019, 25, 2838-2852.	4.4	23
16	Interactive Visual Analysis of Heterogeneous Cohort-Study Data. IEEE Computer Graphics and Applications, 2014, 34, 70-82.	1.2	22
17	Characterizing Cancer Subtypes Using Dual Analysis in Caleydo StratomeX. IEEE Computer Graphics and Applications, 2014, 34, 38-47.	1.2	20
18	LDA Ensembles for Interactive Exploration and Categorization of Behaviors. IEEE Transactions on Visualization and Computer Graphics, 2020, 26, 2775-2792.	4.4	19

#	Article	IF	Citations
19	Broadening Intellectual Diversity in Visualization Research Papers. IEEE Computer Graphics and Applications, 2019, 39, 78-85.	1.2	18
20	Visual Analytics for Data Scientists. , 2020, , .		18
21	Implicit surfaces for interactive graph based cavity analysis of molecular simulations. , 2012, , .		17
22	Hypothesis Generation by Interactive Visual Exploration of Heterogeneous Medical Data. Lecture Notes in Computer Science, 2013, , 1-12.	1.3	16
23	RAMPVIS: Answering the challenges of building visualisation capabilities for large-scale emergency responses. Epidemics, 2022, 39, 100569.	3.0	13
24	Integrating Information Theory in Agent-Based Crowd Simulation Behavior Models. Computer Journal, 2011, 54, 1810-1820.	2.4	10
25	Faceted Views of Varying Emphasis (FaVVEs): a framework for visualising multiâ€perspective small multiples. Computer Graphics Forum, 2016, 35, 241-249.	3.0	9
26	An information theoretic approach to camera control for crowded scenes. Visual Computer, 2009, 25, 451-459.	3.5	8
27	A Perceptual-Statistics Shading Model. IEEE Transactions on Visualization and Computer Graphics, 2012, 18, 2265-2274.	4.4	8
28	Integrating cluster formation and cluster evaluation in interactive visual analysis. , 2013, , .		8
29	Supporting theoretically-grounded model building in the social sciences through interactive visualisation. Neurocomputing, 2017, 268, 153-163.	5.9	8
30	Design and implementation of small multiples matrix-based visualisation to monitor and compare email socio-organisational relationships. , 2018, , .		8
31	Rapid Development of a Data Visualization Service in an Emergency Response. IEEE Transactions on Services Computing, 2022, 15, 1251-1264.	4.6	8
32	User Behavior Map: Visual Exploration for Cyber Security Session Data. , 2018, , .		7
33	Visualization for Smart City Applications. IEEE Computer Graphics and Applications, 2018, 38, 36-37.	1.2	6
34	Perceptually Uniform Motion Space. IEEE Transactions on Visualization and Computer Graphics, 2014, 20, 1542-1554.	4.4	4
35	Dual analysis of DNA microarrays. , 2012, , .		4
36	On the Challenges and Opportunities in Visualization for Machine Learning and Knowledge Extraction: A Research Agenda. Lecture Notes in Computer Science, 2017, , 191-198.	1.3	3

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37	Words of Estimative Correlation: Studying Verbalizations of Scatterplots. IEEE Transactions on Visualization and Computer Graphics, 2022, 28, 1967-1981.	4.4	3
38	Hunting High and Low: Visualising Shifting Correlations in Financial Markets. Computer Graphics Forum, 2018, 37, 479-490.	3.0	2
39	Visual Analytics for Understanding Relationships between Entities. , 2020, , 201-228.		2
40	Temporal Dynamics of User Interests in Web Search Queries. , 2009, , .		1
41	Visual Analytics for Understanding Texts. , 2020, , 341-359.		1
42	Introduction to Visual Analytics by an Example. , 2020, , 3-25.		1
43	Complex model calibration through emulation, a worked example for a stochastic epidemic model. Epidemics, 2022, , 100574.	3.0	1
44	Supporting Decision-Making for Biometric System Deployment through Visual Analysis. , 2014, , .		0
45	An Information Theoretical Approach to Crowd Simulation. Communications in Computer and Information Science, 2012, , 236-261.	0.5	0
46	Visual Analytics for Investigating and Processing Data. , 2020, , 151-180.		0
47	Visual Analytics for Understanding Temporal Distributions and Variations. , 2020, , 229-260.		0
48	Computational Modelling with Visual Analytics. , 2020, , 375-407.		0
49	Visual Analytics for Understanding Spatial Distributions and Spatial Variation. , 2020, , 261-295.		0
50	Principles of Interactive Visualisation. , 2020, , 51-88.		0
51	Visual Analytics for Understanding Multiple Attributes. , 2020, , 181-200.		0