Mao Lin Huang

List of Publications by Year
in descending order

137 papers	1,065 citations	686830 13 h-index	610482 24 g-index
142 all docs	142 docs citations	142 times ranked	656 citing authors

#	Article	IF	Citations
1	Navigating Clustered Graphs Using Force-Directed Methods. Journal of Graph Algorithms and Applications, 2000, 4, 157-181.	0.4	103
2	EncCon: An Approach to Constructing Interactive Visualization of Large Hierarchical Data. Information Visualization, 2005, 4, 1-21.	1.2	78
3	On-line Animated Visualization of Huge Graphs using a Modified Spring Algorithm. Journal of Visual Languages and Computing, 1998, 9, 623-645.	1.8	65
4	Space-Optimized Tree: A Connection+Enclosure Approach for the Visualization of Large Hierarchies. Information Visualization, 2003, 2, 3-15.	1.2	45
5	A Visualization Approach for Frauds Detection in Financial Market. , 2009, , .		43
6	A Fully Animated Interactive System for Clustering and Navigating Huge Graphs. Lecture Notes in Computer Science, 1998, , 374-383.	1.0	41
7	5Ws Model for Big Data Analysis and Visualization. , 2013, , .		29
8	WebOFDAV â€" navigating and visualizing the Web on-line with animated context swapping. Computer Networks, 1998, 30, 638-642.	1.0	28
9	Two axes re-ordering methods in parallel coordinates plots. Journal of Visual Languages and Computing, 2016, 33, 3-12.	1.8	26
10	Evaluating overall quality of graph visualizations based on aesthetics aggregation. Information Sciences, 2016, 330, 444-454.	4.0	26
11	Online animated graph drawing for web navigation. Lecture Notes in Computer Science, 1997, , 330-335.	1.0	25
12	A space-optimized tree visualization. , 0, , .		22
13	Analysis and Visualization of Co-authorship Networks for Understanding Academic Collaboration and Knowledge Domain of Individual Researchers. , 0, , .		18
14	A New Axes Re-ordering Method in Parallel Coordinates Visualization. , 2012, , .		18
15	A new concentric-circle visualization of multi-dimensional data and its application in network security. Journal of Visual Languages and Computing, 2010, 21, 194-208.	1.8	16
16	Highlighting in Information Visualization: A Survey. , 2010, , .		16
17	Visual analytics for intrusion detection in spam emails. International Journal of Grid and Utility Computing, 2013, 4, 178.	0.1	16
18	Interactive Visualization for Patient-to-Patient Comparison. Genomics and Informatics, 2014, 12, 21.	0.4	15

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19	A Fast Algorithm for Balanced Graph Clustering. Proceedings / International Conference on Information Visualisation, 2007, , .	0.0	13
20	Density approach: a new model for BigData analysis and visualization. Concurrency Computation Practice and Experience, 2016, 28, 661-673.	1.4	13
21	A physiognomy based method for facial feature extraction and recognition. Journal of Visual Languages and Computing, 2017, 43, 103-109.	1.8	13
22	Visualizing large trees with divide & conquer partition. , 2013, , .		12
23	Visual Analytics of Clinical and Genetic Datasets of Acute Lymphoblastic Leukaemia. Lecture Notes in Computer Science, 2011, , 113-120.	1.0	12
24	Angular Treemaps - A New Technique for Visualizing and Emphasizing Hierarchical Structures. , 2012, , .		11
25	Big Data Density Analytics Using Parallel Coordinate Visualization. , 2014, , .		11
26	Evaluation on interactive visualization data with scatterplots. Visual Informatics, 2020, 4, 1-10.	2.5	11
27	Exploring the relative importance of crossing number and crossing angle. , 2010, , .		10
28	Using arced axes in parallel coordinates geometry for high dimensional BigData visual analytics in cloud computing. Computing (Vienna/New York), 2015, 97, 425-437.	3.2	10
29	A novel virtual node approach for interactive visual analytics of big datasets in parallel coordinates. Future Generation Computer Systems, 2016, 55, 510-523.	4.9	10
30	RELT â€" Visualizing Trees on Mobile Devices. , 2007, , 344-357.		10
31	A Space Efficient Clustered Visualization of Large Graphs. , 2007, , .		9
32	Multi-feature face recognition based on PSO-SVM. , 2012, , .		9
33	Divide and Conquer treemaps: Visualizing large trees with various shapes. Journal of Visual Languages and Computing, 2015, 31, 104-127.	1.8	9
34	Visual Clustering of Spam Emails for DDoS Analysis. , 2011, , .		8
35	An Interactive Scatter Plot Metrics Visualization for Decision Trend Analysis. , 2012, , .		8
36	TabuVis: A tool for visual analytics multidimensional datasets. Science China Information Sciences, 2013, 56, 1-12.	2.7	8

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37	Applying Graph Centrality Metrics in Visual Analytics of Scientific Standard Datasets. Symmetry, 2019, 11, 30.	1.1	8
38	A focus+context visualization technique using semi-transparency. , 0, , .		7
39	Applying Graph Layout Techniques to Web Information Visualization and Navigation. , 2007, , .		7
40	Enabling decision trend analysis with interactive scatter plot matrices visualization. Journal of Visual Languages and Computing, 2016, 33, 13-23.	1.8	7
41	Data behaviours model for Big Data visual analytics. International Journal of Big Data Intelligence, 2016, 3, 1.	0.4	7
42	ON-LINE VISUALIZATION AND NAVIGATION OF THE GLOBAL WEB STRUCTURE. International Journal of Software Engineering and Knowledge Engineering, 2003, 13, 27-52.	0.6	6
43	TreemapBar: Visualizing Additional Dimensions of Data in Bar Chart. , 2009, , .		6
44	Optimized data acquisition by time series clustering in OPC. , 2011, , .		6
45	An Interactive Radial Visualization of Geoscience Observation Data. , 2015, , .		6
46	Deep Exploration of Multidimensional Data with Linkable Scatterplots. , 2016, , .		6
47	An Improved Wavelet Analysis Method for Detecting DDoS Attacks. , 2010, , .		5
48	Aesthetic of angular resolution for node-link diagrams: Validation and algorithm. , 2011, , .		5
49	Evaluating force-directed algorithms with a new framework. , 2012, , .		5
50	Unlocking the complexity of genomic data of RMS patients through visual analytics. , 2012, , .		5
51	Visual Analytics Model for Intrusion Detection in Flood Attack. , 2013, , .		5
52	Stroke Data Analysis through a HVN Visual Mining Platform. , 2019, , .		5
53	Parallel Rough Set: Dimensionality Reduction and Feature Discovery of Multi-Dimensional Data in Visualization. Lecture Notes in Computer Science, 2011, , 99-108.	1.0	5
54	Navigating Large Clustered Graphs with Triple-Layer Display. Proceedings / International Conference on Information Visualisation, 2007, , .	0.0	4

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55	Force-directed Graph Visualization with Pre-positioning - Improving Convergence Time and Quality of Layout. , 2012, , .		4
56	WeBeVis: analyzing user web behavior through visual metaphors. Science China Information Sciences, 2013, 56, 1-15.	2.7	4
57	Using Visual Cues on DOITree for Visualizing Large Hierarchical Data. , 2014, , .		4
58	Detecting Criminal Relationships through SOM Visual Analytics. , 2015, , .		4
59	A Space-Filling Multidimensional Visualization (SFMDVis) for Exploratory Data Analysis. Information Sciences, 2017, 390, 32-53.	4.0	4
60	Measuring and Evaluating the Visual Complexity Of Chinese Ink Paintings. Computer Journal, 2022, 65, 1964-1976.	1.5	4
61	Navigating Clustered Graphs Using Force-Directed Methods. , 2004, , 191-215.		4
62	Visual analytics for BigData variety and its behaviours. Computer Science and Information Systems, 2015, 12, 1171-1191.	0.7	4
63	Context Visualization for Visual Data Mining. Lecture Notes in Computer Science, 2008, , 248-263.	1.0	4
64	An Initial Visual Analysis of the Relationship between COVID-19 and Local Community Features. , 2020, , .		4
65	Phase stabilities of ternary rare earth metal disilicides. Applied Physics A: Materials Science and Processing, 2004, 78, 1-3.	1.1	3
66	Three-Dimensional EncCon Tree. , 2007, , .		3
67	XKMis. , 2009, , .		3
68	Rectangle orientation in area judgment task for treemap design. , 2012, , .		3
69	An aggregation-based approach to quality evaluation of graph drawings. , 2012, , .		3
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73	Multi-dimensional Data Visualization using Concentric Coordinates. , 2009, , 95-118.		3
74	A fast focus+context viewing technique for the navigation of classical hierarchical layout. , 0, , .		3
75	Qstack: Multi-tag Visual Rankings. Journal of Software, 2016, 11, 695-703.	0.6	3
76	Mapping and browsing the web in a 2D space. , 1999, , .		2
77	Graph visualization of web data with domain-specific attributes. , 2002, , .		2
78	Attributed Graph Visualization of Collaborative Workspaces. , 0, , .		2
79	Visualization of Individual's Knowledge by Analyzing the Citation Networks. , 2007, , .		2
80	A Usability Study on the Use of Multi-Context Visualization. , 2008, , .		2
81	Interactive visualization with user perspective. , 2010, , .		2
82	Clutter Reduction in Multi-dimensional Visualization of Incomplete Data Using Sugiyama Algorithm. , 2012, , .		2
83	Detecting Flood Attacks through New Density-Pattern Based Approach. , 2013, , .		2
84	Parallel Coordinates Visualization of Large Data Investigation on HDDs. , 2013, , .		2
85	Natural User Interface Design in DA-TU: An Interactive Clustered Data Visualization System. , 2015, , .		2
86	2D approach measuring multidimensional data pattern in big data visualization. , 2016, , .		2
87	An interactive visualization approach to the overview of geoscience data. Journal of Visualization, 2017, 20, 433-451.	1.1	2
88	Golden Rectangle Treemap. Journal of Physics: Conference Series, 2017, 787, 012007.	0.3	2
89	Enabling effective tree exploration using visual cues. Journal of Visual Languages and Computing, 2018, 47, 44-61.	1.8	2
90	From Tree to Graph - Experiments with E-Spring Algorithm. , 2009, , 41-63.		2

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91	A Visual Method for High-Dimensional Data Cluster Exploration. Lecture Notes in Computer Science, 2009, , 699-709.	1.0	2
92	A Space Optimized Scatter Plot Matrix Visualization. Lecture Notes in Computer Science, 2016, , 382-385.	1.0	2
93	Enhancing Scatter-plots with Start-plots for Visualising Multi-dimensional Data. , 2020, , .		2
94	An integrated visual framework for the human-Web interface. , 0, , .		1
95	A Combined Visualization of Multiple Relational Structures in Shared Collaborative Workspaces. , 0, , .		1
96	A new visualization approach for supporting knowledge management and collaboration in E-learning. , 0, , .		1
97	Perceptual User Study for Combined Treemap. , 2012, , .		1
98	Improving the Quality of Clustered Graph Drawing through a Dummy Element Approach. , 2013, , .		1
99	BigData visualization: Parallel coordinates using density approach. , 2014, , .		1
100	Radial Cursor. , 2015, , .		1
101	Navigation in large hierarchical graph through chain-context views. Journal of Visualization, 2016, 19, 543-559.	1.1	1
102	Facial Feature Extraction and Recognition for Traditional Chinese Physiognomy. , 2016, , .		1
103	MCquery. , 2016, , .		1
104	Semantic Topic Discovery for Lecture Video. Advances in Intelligent Systems and Computing, 2020, , 457-466.	0.5	1
105	Areas of Life Visualisation: Growing Data-Reliance. Lecture Notes in Computer Science, 2016, , 227-234.	1.0	1
106	Coaxial interactive viewer. , 2011, , .		1
107	Creating Visual Browsers for Large-Scale Online Auctions. Studies in Computational Intelligence, 2007, , 579-600.	0.7	1
108	A New Interactive Platform for Visual Analytics of Social Networks. , 2009, , 231-244.		1

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109	TabuVis. , 2012, , .		1
110	Multi-Feature Face Recognition Based on 2D-PCA and SVM. , 2013, , 65-75.		1
111	SumUp: Statistical Visual Query of Multivariate Data with Parallel-Coordinate Geometry. Lecture Notes in Computer Science, 2016, , 386-393.	1.0	1
112	Evaluating Overall Quality of Dynamic Network Visualizations. Lecture Notes in Computer Science, 2016, , 157-162.	1.0	1
113	Visualization of Relational Structure Among Scientific Articles. , 2007, , 415-425.		1
114	Compression techniques for 2-hop labeling for shortest distance queries. World Wide Web, 2022, 25, 151-174.	2.7	1
115	Designing infographics/visual icons of social network by referencing to the design concept of ancient Oracle Bone characters. , 2020, , .		1
116	21DF-browser: a multiple fisheye distortion technique for visualizing and navigating hierarchies with large number of leaves. , 0, , .		0
117	DualView: A Focus+Context Technique for Navigating Large Graphs. , 0, , .		0
118	A Collaborative Framework for Designers and Developers of Software-Intensive Systems. , 2006, , .		0
119	A Visualization Model for Web Sitemaps. , 0, , .		0
120	A Technique for Visualizing Dihedral Signal of Large Protein Sequences. , 0, , .		0
121	A Kernel-based Algorithm for Multilevel Drawing Web Graphs. , 2007, , .		0
122	A Zoomable Shopping Browser Using a Graphic-Treemap. , 2009, , .		0
123	Large Scale Network Analysis with Interactive Visualisation. , 2009, , .		0
124	Visual analysis and detection of network flood attacks through Two-Layer density approach. , 2013, , .		0
125	Visual Sensitivity Analysis in Real Estate Prediction System. , 2013, , .		0
126	Improving Performance of Forensics Investigation with Parallel Coordinates Visual Analytics. , 2014, , .		0

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127	Teaching undergraduate algorithms with case studies and quizzes in interactive tutorials. , 2015, , .		0
128	Performance Comparisons between Force-Directed Algorithms on Structured Data Analysis. , 2017, , .		0
129	Interactive Data Exploration through Multiple Visual Contexts with Different Data Models and Dimensions. , 2017, , .		0
130	A Mobile Tool for Interactive Visualisation of Genomics Data. , 2018, , .		0
131	The influence of edge bundling on visual information search. Information Sciences, 2019, 495, 234-246.	4.0	0
132	Flowchart Components for Program Visualization. , 2003, , 59-75.		0
133	Twig Pattern Matching: A Revisit. Lecture Notes in Computer Science, 2011, , 43-50.	1.0	0
134	Highlighting in Visual Data Analytics. Advances in Data Mining and Database Management Book Series, 2014, , 176-190.	0.4	0
135	A New Analytics Model for Large Scale Multidimensional Data Visualization. Lecture Notes in Computer Science, 2015, , 55-71.	1.0	0
136	What Next in Designing Personalized Visualization of Web Information. Lecture Notes in Computer Science, 2016, , 134-141.	1.0	0
137	DGViewer: A Hybrid Approach towards Visualisation of Dynamic Networks. , 2020, , .		0