

Remco Chang

List of Publications by Year in descending order

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Version: 2024-02-01

98
papers

2,974
citations

279798

23
h-index

276875

41
g-index

100
all docs

100
docs citations

100
times ranked

1791
citing authors

#	ARTICLE	IF	CITATIONS
1	The Science of Interaction. Information Visualization, 2009, 8, 263-274.	1.9	206
2	iPCA: An Interactive System for PCA-based Visual Analytics. Computer Graphics Forum, 2009, 28, 767-774.	3.0	170
3	Dis-function: Learning distance functions interactively. , 2012, , .		134
4	Ranking Visualizations of Correlation Using Weber's Law. IEEE Transactions on Visualization and Computer Graphics, 2014, 20, 1943-1952.	4.4	134
5	Defining Insight for Visual Analytics. IEEE Computer Graphics and Applications, 2009, 29, 14-17.	1.2	104
6	Dynamic difficulty using brain metrics of workload. , 2014, , .		100
7	WireVis: Visualization of Categorical, Time-Varying Data From Financial Transactions. , 2007, , .		93
8	Recovering Reasoning Processes from User Interactions. IEEE Computer Graphics and Applications, 2009, 29, 52-61.	1.2	93
9	Dynamic Prefetching of Data Tiles for Interactive Visualization. , 2016, , .		92
10	Finding Waldo: Learning about Users from their Interactions. IEEE Transactions on Visualization and Computer Graphics, 2014, 20, 1663-1672.	4.4	91
11	Learn Piano with BACH. , 2016, , .		85
12	ParallelTopics: A probabilistic approach to exploring document collections. , 2011, , .		76
13	Infographic Aesthetics. , 2015, , .		76
14	Using fNIRS brain sensing to evaluate information visualization interfaces. , 2013, , .		75
15	How Visualization Layout Relates to Locus of Control and Other Personality Factors. IEEE Transactions on Visualization and Computer Graphics, 2013, 19, 1109-1121.	4.4	73
16	Improving Bayesian Reasoning: The Effects of Phrasing, Visualization, and Spatial Ability. IEEE Transactions on Visualization and Computer Graphics, 2016, 22, 529-538.	4.4	73
17	Analytic provenance. , 2011, , .		63
18	Beagle. , 2018, , .		59

#	ARTICLE	IF	CITATIONS
19	Survey on the Analysis of User Interactions and Visualization Provenance. Computer Graphics Forum, 2020, 39, 757-783.	3.0	55
20	Legible Cities: Focus-Dependent Multi-Resolution Visualization of Urban Relationships. IEEE Transactions on Visualization and Computer Graphics, 2007, 13, 1169-1175.	4.4	48
21	Interactive Coordinated Multiple-View Visualization of Biomechanical Motion Data. IEEE Transactions on Visualization and Computer Graphics, 2009, 15, 1383-1390.	4.4	46
22	Dynamic reduction of query result sets for interactive visualizaton. , 2013, , .		46
23	Composition and Configuration Patterns in Multiple-View Visualizations. IEEE Transactions on Visualization and Computer Graphics, 2021, 27, 1514-1524.	4.4	45
24	How locus of control influences compatibility with visualization style. , 2011, , .		44
25	PROACT: Iterative Design of a Patient-Centered Visualization for Effective Prostate Cancer Health Risk Communication. IEEE Transactions on Visualization and Computer Graphics, 2017, 23, 601-610.	4.4	44
26	Scalable and Interactive Visual Analysis of Financial Wire Transactions for Fraud Detection. Information Visualization, 2008, 7, 63-76.	1.9	42
27	Multi-Focused Geospatial Analysis Using Probes. IEEE Transactions on Visualization and Computer Graphics, 2008, 14, 1165-1172.	4.4	40
28	An Affordance-Based Framework for Human Computation and Human-Computer Collaboration. IEEE Transactions on Visualization and Computer Graphics, 2012, 18, 2859-2868.	4.4	35
29	Understanding Visualization by Understanding Individual Users. IEEE Computer Graphics and Applications, 2012, 32, 88-94.	1.2	35
30	Legible Simplification of Textured Urban Models. IEEE Computer Graphics and Applications, 2008, 28, 27-36.	1.2	34
31	Defining and applying knowledge conversion processes to a visual analytics system. Computers and Graphics, 2009, 33, 616-623.	2.5	34
32	Personality as a Predictor of User Strategy. , 2015, , .		33
33	Correlation Judgment and Visualization Features: A Comparative Study. IEEE Transactions on Visualization and Computer Graphics, 2019, 25, 1474-1488.	4.4	31
34	Influencing visual judgment through affective priming. , 2013, , .		29
35	Helping users recall their reasoning process. , 2010, , .		27
36	BEAMES: Interactive Multimodel Steering, Selection, and Inspection for Regression Tasks. IEEE Computer Graphics and Applications, 2019, 39, 20-32.	1.2	26

#	ARTICLE	IF	CITATIONS
37	Ablate, Variate, and Contemplate: Visual Analytics for Discovering Neural Architectures. IEEE Transactions on Visualization and Computer Graphics, 2020, 26, 863-873.	4.4	26
38	Investigative Visual Analysis of Global Terrorism. Computer Graphics Forum, 2008, 27, 919-926.	3.0	25
39	Semantic Interaction: Coupling Cognition and Computation through Usable Interactive Analytics. IEEE Computer Graphics and Applications, 2015, 35, 94-99.	1.2	25
40	A Userâ€based Visual Analytics Workflow for Exploratory Model Analysis. Computer Graphics Forum, 2019, 38, 185-199.	3.0	24
41	RNNbow: Visualizing Learning Via Backpropagation Gradients in RNNs. IEEE Computer Graphics and Applications, 2018, 38, 39-50.	1.2	23
42	At a Glance: Pixel Approximate Entropy as a Measure of Line Chart Complexity. IEEE Transactions on Visualization and Computer Graphics, 2019, 25, 872-881.	4.4	20
43	Visual Analysis and Semantic Exploration of Urban LIDAR Change Detection. Computer Graphics Forum, 2008, 27, 903-910.	3.0	18
44	Evaluating the relationship between user interaction and financial visual analysis. , 2008, , .		17
45	Towards a 3-dimensional model of individual cognitive differences. , 2012, , .		17
46	An Interactive Visual Analytics System for Bridge Management. Computer Graphics Forum, 2010, 29, 1033-1042.	3.0	16
47	Kyrix: Interactive Pan/Zoom Visualizations at Scale. Computer Graphics Forum, 2019, 38, 529-540.	3.0	15
48	Alleviating the Modifiable Areal Unit Problem within Probeâ€Based Geospatial Analyses. Computer Graphics Forum, 2010, 29, 923-932.	3.0	13
49	Brain-based target expansion. , 2014, , .		13
50	Position statement: The case for a visualization performance benchmark. , 2017, , .		13
51	Designing a collaborative visual analytics system to support usersâ€™ continuous analytical processes. Human-centric Computing and Information Sciences, 2015, 5, .	6.1	11
52	CAVA: A Visual Analytics System for Exploratory Columnar Data Augmentation Using Knowledge Graphs. IEEE Transactions on Visualization and Computer Graphics, 2021, 27, 1731-1741.	4.4	11
53	Visual analysis of entity relationships in the Global Terrorism Database. Proceedings of SPIE, 2008, , .	0.8	10
54	Exploring the impact of emotion on visual judgement. , 2012, , .		10

#	ARTICLE	IF	CITATIONS
55	Balancing Human and Machine Contributions in Human Computation Systems. , 2013, , 615-623.		10
56	Challenges in Evaluating Interactive Visual Machine Learning Systems. IEEE Computer Graphics and Applications, 2020, 40, 88-96.	1.2	9
57	Efficient Discovery of Visible Light-Activated Azoarene Photoswitches with Long Half-Lives Using Active Search. Journal of Chemical Information and Modeling, 2021, 61, 5524-5534.	5.4	9
58	User experimentation: an evaluation of velocity control techniques in immersive virtual environments. Virtual Reality, 2009, 13, 41-50.	6.1	8
59	Comparing different levels of interaction constraints for deriving visual problem isomorphs. , 2010, , .		8
60	RiskVA: A visual analytics system for consumer credit risk analysis. Tsinghua Science and Technology, 2012, 17, 440-451.	6.1	8
61	Manipulating and controlling for personality effects on visualization tasks. Information Visualization, 2015, 14, 223-233.	1.9	8
62	Does Interaction Improve Bayesian Reasoning with Visualization?. , 2021, , .		8
63	Smile. Proceedings of the VLDB Endowment, 2019, 12, 2230-2241.	3.8	8
64	Hierarchical simplification of city models to maintain urban legibility. , 2006, , .		7
65	Selective Wander Join: Fast Progressive Visualizations for Data Joins. Informatics, 2019, 6, 14.	3.9	6
66	The Role of Latency and Task Complexity in Predicting Visual Search Behavior. IEEE Transactions on Visualization and Computer Graphics, 2020, 26, 1246-1255.	4.4	6
67	Putting the "in" in Interaction: Interactive Interfaces Personalized to Individuals. IEEE Computer Graphics and Applications, 2020, 40, 73-82.	1.2	6
68	Kyrix-S: Authoring Scalable Scatterplot Visualizations of Big Data. IEEE Transactions on Visualization and Computer Graphics, 2021, 27, 401-411.	4.4	6
69	QUESTO: Interactive Construction of Objective Functions for Classification Tasks. Computer Graphics Forum, 2020, 39, 153-165.	3.0	6
70	Visualizing uncertainty for geographical information in the global terrorism database. Proceedings of SPIE, 2008, , .	0.8	5
71	Learning-based evaluation of visual analytic systems. , 2010, , .		5
72	Two Visualization Tools for Analyzing Agent-Based Simulations in Political Science. IEEE Computer Graphics and Applications, 2012, 32, 67-77.	1.2	5

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73	Exploring hierarchical visualization designs using phylogenetic trees. Proceedings of SPIE, 2015, , .	0.8	5
74	GPS and road map navigation. , 2010, , .		4
75	Find distance function, hide model inference. , 2011, , .		4
76	Priming Locus of Control to affect performance. , 2012, , .		4
77	Visual analysis for live LIDAR battlefield change detection. , 2008, , .		3
78	Toward a deeper understanding of the relationship between interaction constraints and visual isomorphs. Information Visualization, 2012, 11, 222-236.	1.9	3
79	Facilitating Exploration with Interaction Snapshots under High Latency. , 2020, , .		3
80	Hierarchical multi-touch selection techniques for collaborative geospatial analysis. , 2009, , .		2
81	A continuous analysis process between desktop and collaborative visual analytics environments. , 2010, , .		2
82	A state transition approach to understanding users' interactions. , 2011, , .		2
83	Participant characteristics and self-reported weight status in a cross-sectional pilot survey of self-identified followers of popular diets: Adhering to Dietary Approaches for Personal Taste (ADAPT) Feasibility Survey. Public Health Nutrition, 2020, 23, 2717-2727.	2.2	2
84	NeuralCubes: Deep Representations for Visual Data Exploration. , 2021, , .		2
85	Comparing two interface tools in performing visual analytics tasks. , 2009, , .		1
86	Visualization as integration of heterogeneous processes. , 2009, , .		1
87	Integrating time-series visualizations within parallel coordinates for exploratory analysis of incident databases. , 2009, , .		1
88	Towards sustainable infrastructure management: knowledge-based service-oriented computing framework for visual analytics. , 2009, , .		1
89	Knowledge integrated visual analysis system for in-depth management of bridge safety and maintenance. , 2009, , .		1
90	Exploring agent-based simulations in political science using Aggregate Temporal Graphs. , 2013, , .		1

#	ARTICLE	IF	CITATIONS
91	Combining Automated and Interactive Visual Analysis of Biomechanical Motion Data. Lecture Notes in Computer Science, 2010, , 564-573.	1.3	1
92	Interactive poster: Visual data mining of unevenly-spaced event sequences. , 2008, , .		0
93	A linked feature space approach to exploring lidar data. , 2010, , .		0
94	Exploring agent-based simulations using temporal graphs. , 2011, , .		0
95	Optimizing an SPT-tree for visual analytics. , 2012, , .		0
96	Introduction to the Special Issue on Interactive Computational Visual Analytics. ACM Transactions on Interactive Intelligent Systems, 2014, 4, 1-3.	3.7	0
97	Understanding implicit and explicit interface tools to perform visual analytics tasks. , 2014, , .		0
98	Cognitive Information Theories of Psychology and Applications with Visualization and HCI Through Crowdsourcing Platforms. Lecture Notes in Computer Science, 2017, , 139-153.	1.3	0