

Fernando V Paulovich

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

81
papers

1,596
citations

23
h-index

37
g-index

89
ext. papers

1,897
ext. citations

3.7
avg, IF

4.79
L-index

#	Paper	IF	Citations
81	Least square projection: a fast high-precision multidimensional projection technique and its application to document mapping. <i>IEEE Transactions on Visualization and Computer Graphics</i> , 2008 , 14, 564-75	4	148
80	Local Affine Multidimensional Projection. <i>IEEE Transactions on Visualization and Computer Graphics</i> , 2011 , 17, 2563-71	4	131
79	Skeleton-based edge bundling for graph visualization. <i>IEEE Transactions on Visualization and Computer Graphics</i> , 2011 , 17, 2364-73	4	94
78	Information visualization techniques for sensing and biosensing. <i>Analyst, The</i> , 2011 , 136, 1344-50	5	83
77	Two-phase mapping for projecting massive data sets. <i>IEEE Transactions on Visualization and Computer Graphics</i> , 2010 , 16, 1281-90	4	55
76	HiPP: a novel hierarchical point placement strategy and its application to the exploration of document collections. <i>IEEE Transactions on Visualization and Computer Graphics</i> , 2008 , 14, 1229-36	4	55
75	Biosensors for efficient diagnosis of leishmaniasis: innovations in bioanalytics for a neglected disease. <i>Analytical Chemistry</i> , 2010 , 82, 9763-8	7.8	49
74	Semantic Wordification of Document Collections. <i>Computer Graphics Forum</i> , 2012 , 31, 1145-1153	2.4	45
73	Piece wise Laplacian-based Projection for Interactive Data Exploration and Organization. <i>Computer Graphics Forum</i> , 2011 , 30, 1091-1100	2.4	45
72	Visual text mining using association rules. <i>Computers and Graphics</i> , 2007 , 31, 316-326	1.8	44
71	Information Visualization and Feature Selection Methods Applied to Detect Gliadin in Gluten-Containing Foodstuff with a Microfluidic Electronic Tongue. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 19646-19652	9.5	38
70	A Future with Ubiquitous Sensing and Intelligent Systems. <i>ACS Sensors</i> , 2018 , 3, 1433-1438	9.2	38
69	Use of information visualization methods eliminating cross talk in multiple sensing units investigated for a light-addressable potentiometric sensor. <i>Analytical Chemistry</i> , 2010 , 82, 61-5	7.8	37
68	Seeing beyond reading: a survey on visual text analytics. <i>Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery</i> , 2012 , 2, 476-492	6.9	36
67	Content-based text mapping using multi-dimensional projections for exploration of document collections 2006 ,		34
66	The Projection Explorer: A Flexible Tool for Projection-based Multidimensional Visualization 2007 ,		33
65	Visual analysis of image collections. <i>Visual Computer</i> , 2009 , 25, 923-937	2.3	30

64	A visual analysis approach to validate the selection review of primary studies in systematic reviews. <i>Information and Software Technology</i> , 2012 , 54, 1079-1091	3.4	27
63	User-driven Feature Space Transformation. <i>Computer Graphics Forum</i> , 2013 , 32, 291-299	2.4	25
62	Information visualization to enhance sensitivity and selectivity in biosensing. <i>Biointerphases</i> , 2012 , 7, 53	1.8	24
61	Strategies to optimize biosensors based on impedance spectroscopy to detect phytic acid using layer-by-layer films. <i>Analytical Chemistry</i> , 2010 , 82, 3239-46	7.8	24
60	Nmap: A Novel Neighborhood Preservation Space-filling Algorithm. <i>IEEE Transactions on Visualization and Computer Graphics</i> , 2014 , 20, 2063-71	4	23
59	Point Placement by Phylogenetic Trees and its Application to Visual Analysis of Document Collections 2007 ,		23
58	Explainable Matrix - Visualization for Global and Local Interpretability of Random Forest Classification Ensembles. <i>IEEE Transactions on Visualization and Computer Graphics</i> , 2021 , 27, 1427-1437	4	22
57	Projection inspector: Assessment and synthesis of multidimensional projections. <i>Neurocomputing</i> , 2015 , 150, 599-610	5.4	20
56	Explaining three-dimensional dimensionality reduction plots. <i>Information Visualization</i> , 2016 , 15, 154-172	2.4	19
55	Probing trace levels of prometryn solutions: from test samples in the lab toward real samples with tap water. <i>Journal of Materials Science</i> , 2016 , 51, 3182-3190	4.3	18
54	A Framework for Exploring Multidimensional Data with 3D Projections. <i>Computer Graphics Forum</i> , 2011 , 30, 1111-1120	2.4	18
53	Normalized compression distance for visual analysis of document collections. <i>Computers and Graphics</i> , 2007 , 31, 327-337	1.8	18
52	On the convergence of nanotechnology and Big Data analysis for computer-aided diagnosis. <i>Nanomedicine</i> , 2016 , 11, 959-82	5.6	17
51	Toward the optimization of an e-tongue system using information visualization: a case study with perylene tetracarboxylic derivative films in the sensing units. <i>Langmuir</i> , 2012 , 28, 1029-40	4	17
50	Molecularly designed layer-by-layer (LbL) films to detect catechol using information visualization methods. <i>Langmuir</i> , 2013 , 29, 7542-50	4	17
49	Using multidimensional projection techniques for reaching a high distinguishing ability in biosensing. <i>Analytical and Bioanalytical Chemistry</i> , 2011 , 400, 1153-9	4.4	17
48	Layer-by-Layer Thin Film of Iron Phthalocyanine as a Simple and Fast Sensor for Polyphenol Determination in Tea Samples. <i>Journal of Food Science</i> , 2016 , 81, C2344-C2351	3.4	16
47	Detection of trace levels of atrazine using surface-enhanced Raman scattering and information visualization. <i>Colloid and Polymer Science</i> , 2014 , 292, 2811-2820	2.4	16

46	Detection of glucose and triglycerides using information visualization methods to process impedance spectroscopy data. <i>Sensors and Actuators B: Chemical</i> , 2012 , 166-167, 231-238	8.5	16
45	SERS mapping in Langmuir-Blodgett films and single-molecule detection. <i>Applied Spectroscopy</i> , 2013 , 67, 563-9	3.1	16
44	Text Map Explorer: a Tool to Create and Explore Document Maps		16
43	User-Centered Multidimensional Projection Techniques. <i>Computing in Science and Engineering</i> , 2012 , 14, 74-81	1.5	14
42	LoCH: A neighborhood-based multidimensional projection technique for high-dimensional sparse spaces. <i>Neurocomputing</i> , 2015 , 150, 546-556	5.4	13
41	Where Chemical Sensors May Assist in Clinical Diagnosis Exploring Big Data. <i>Chemistry Letters</i> , 2014 , 43, 1672-1679	1.7	12
40	Visualization of protein folding funnels in lattice models. <i>PLoS ONE</i> , 2014 , 9, e100861	3.7	11
39	Visualizing and Interacting with Kernelized Data. <i>IEEE Transactions on Visualization and Computer Graphics</i> , 2016 , 22, 1314-25	4	10
38	Multidimensional Projections for Visual Analysis of Social Networks. <i>Journal of Computer Science and Technology</i> , 2012 , 27, 791-810	1.7	10
37	On the distinct molecular architectures of dipping- and spray-LbL films containing lipid vesicles. <i>Materials Science and Engineering C</i> , 2014 , 41, 363-71	8.3	9
36	Time-aware visualization of document collections 2012 ,		9
35	Employing 2D Projections for Fast Visual Exploration of Large Fiber Tracking Data. <i>Computer Graphics Forum</i> , 2012 , 31, 1075-1084	2.4	8
34	Visual Mapping of Text Collections through a Fast High Precision Projection Technique		8
33	Concentric RadViz: Visual Exploration of Multi-task Classification 2015 ,		6
32	PEX-WEB: Content-based Visualization of Web Search Results 2008 ,		6
31	2008 ,		6
30	Exploring Neural Network Hidden Layer Activity Using Vector Fields. <i>Information (Switzerland)</i> , 2020 , 11, 426	2.6	5
29	Visualization in the preprocessing phase: Getting insights from enterprise professionals. <i>Information Visualization</i> , 2020 , 19, 273-287	2.4	5

28	UPDis: A user-assisted projection technique for distance information. <i>Information Visualization</i> , 2018 , 17, 269-281	2.4	5
27	Colorization by Multidimensional Projection 2012 ,		4
26	The Projection Explorer: A Flexible Tool for Projection-based Multidimensional Visualization		4
25	Visual feature fusion and its application to support unsupervised clustering tasks. <i>Information Visualization</i> , 2020 , 19, 163-179	2.4	4
24	. <i>IEEE Transactions on Multimedia</i> , 2016 , 18, 2238-2246	6.6	4
23	Visualization of Music Collections Based on Structural Content Similarity 2014 ,		3
22	Multidimensional Visualization to Support Analysis of Image Collections 2008 ,		3
21	Iterative learning to rank from explicit relevance feedback 2020 ,		3
20	Machine Learning Used to Create a Multidimensional Calibration Space for Sensing and Biosensing Data. <i>Bulletin of the Chemical Society of Japan</i> ,	5.1	3
19	A Trajectory Scoring Tool for Local Anomaly Detection in Maritime Traffic Using Visual Analytics. <i>ISPRS International Journal of Geo-Information</i> , 2021 , 10, 412	2.9	3
18	Using machine learning and an electronic tongue for discriminating saliva samples from oral cavity cancer patients and healthy individuals.. <i>Talanta</i> , 2022 , 243, 123327	6.2	3
17	Visual Data Exploration to Feature Space Definition 2010 ,		2
16	Similarity-Based Visualization of Time Series Collections: An Application to Analysis of Streamflows 2008 ,		2
15	Low-cost bacterial nanocellulose-based interdigitated biosensor to detect the p53 cancer biomarker. <i>Materials Science and Engineering C</i> , 2022 , 112676	8.3	2
14	Electrical Immunosensor Made with Antigenic Peptide NS5A-1 Immobilized onto Silk Fibroin for Diagnosing Hepatitis C. <i>Journal of the Brazilian Chemical Society</i> , 2018 ,	1.5	2
13	ExplorerTree: A Focus+Context Exploration Approach for 2D Embeddings. <i>Big Data Research</i> , 2021 , 25, 100239	3.7	2
12	Fast and reliable incremental dimensionality reduction for streaming data. <i>Computers and Graphics</i> , 2021 ,	1.8	2
11	Scaling the Growing Neural Gas for Visual Cluster Analysis. <i>Big Data Research</i> , 2021 , 26, 100254	3.7	2

10	Senti-COVID19: An Interactive Visual Analytics System for Detecting Public Sentiment and Insights Regarding COVID-19 From Social Media. <i>IEEE Access</i> , 2021 , 9, 126684-126697	3.5	2
9	User-guided Dimensionality Reduction Ensembles 2019 ,		1
8	Detection of Staphylococcus aureus in milk samples using impedance spectroscopy and data processing with information visualization techniques and multidimensional calibration space.. <i>Sensors and Actuators Reports</i> , 2022 , 4, 100083	4.7	1
7	Random Forest Similarity Maps: A Scalable Visual Representation for Global and Local Interpretation. <i>Electronics (Switzerland)</i> , 2021 , 10, 2862	2.6	0
6	RankViz: A visualization framework to assist interpretation of Learning to Rank algorithms. <i>Computers and Graphics</i> , 2020 , 93, 25-38	1.8	0
5	Mapping texts through dimensionality reduction and visualization techniques for interactive exploration of document collections 2006 , 6060, 271		
4	Neural network training fingerprint: visual analytics of the training process in classification neural networks. <i>Journal of Visualization</i> ,1	1.6	
3	Similarity-Driven Edge Bundling: Data-Oriented Clutter Reduction in Graphs Layouts. <i>Algorithms</i> , 2020 , 13, 290	1.8	
2	PrAVA: Preprocessing profiling approach for visual analytics. <i>Information Visualization</i> , 2021 , 20, 101-122.4		
1	ARMatrix: An Interactive Item-to-Rule Matrix for Association Rules Visual Analytics. <i>Electronics (Switzerland)</i> , 2022 , 11, 1344	2.6	