

# Fernando V Paulovich

## List of Publications by Year in Descending Order

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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	Low-cost bacterial nanocellulose-based interdigitated biosensor to detect the p53 cancer biomarker. <i>Materials Science and Engineering C</i> , <b>2022</b> , 112676	8.3	2
80	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> , <b>2022</b> , 4, 100083	4.7	1
79	Using machine learning and an electronic tongue for discriminating saliva samples from oral cavity cancer patients and healthy individuals.. <i>Talanta</i> , <b>2022</b> , 243, 123327	6.2	3
78	ARMatrix: An Interactive Item-to-Rule Matrix for Association Rules Visual Analytics. <i>Electronics (Switzerland)</i> , <b>2022</b> , 11, 1344	2.6	
77	Random Forest Similarity Maps: A Scalable Visual Representation for Global and Local Interpretation. <i>Electronics (Switzerland)</i> , <b>2021</b> , 10, 2862	2.6	0
76	A Trajectory Scoring Tool for Local Anomaly Detection in Maritime Traffic Using Visual Analytics. <i>ISPRS International Journal of Geo-Information</i> , <b>2021</b> , 10, 412	2.9	3
75	PrAVA: Preprocessing profiling approach for visual analytics. <i>Information Visualization</i> , <b>2021</b> , 20, 101-122.4		
74	Explainable Matrix - Visualization for Global and Local Interpretability of Random Forest Classification Ensembles. <i>IEEE Transactions on Visualization and Computer Graphics</i> , <b>2021</b> , 27, 1427-1437	4	22
73	ExplorerTree: A Focus+Context Exploration Approach for 2D Embeddings. <i>Big Data Research</i> , <b>2021</b> , 25, 100239	3.7	2
72	Fast and reliable incremental dimensionality reduction for streaming data. <i>Computers and Graphics</i> , <b>2021</b> ,	1.8	2
71	Scaling the Growing Neural Gas for Visual Cluster Analysis. <i>Big Data Research</i> , <b>2021</b> , 26, 100254	3.7	2
70	Senti-COVID19: An Interactive Visual Analytics System for Detecting Public Sentiment and Insights Regarding COVID-19 From Social Media. <i>IEEE Access</i> , <b>2021</b> , 9, 126684-126697	3.5	2
69	Exploring Neural Network Hidden Layer Activity Using Vector Fields. <i>Information (Switzerland)</i> , <b>2020</b> , 11, 426	2.6	5
68	Visualization in the preprocessing phase: Getting insights from enterprise professionals. <i>Information Visualization</i> , <b>2020</b> , 19, 273-287	2.4	5
67	Iterative learning to rank from explicit relevance feedback <b>2020</b> ,		3
66	Visual feature fusion and its application to support unsupervised clustering tasks. <i>Information Visualization</i> , <b>2020</b> , 19, 163-179	2.4	4
65	RankViz: A visualization framework to assist interpretation of Learning to Rank algorithms. <i>Computers and Graphics</i> , <b>2020</b> , 93, 25-38	1.8	0

64	Similarity-Driven Edge Bundling: Data-Oriented Clutter Reduction in Graphs Layouts. <i>Algorithms</i> , <b>2020</b> , 13, 290	1.8	
63	User-guided Dimensionality Reduction Ensembles <b>2019</b> ,		1
62	UPDis: A user-assisted projection technique for distance information. <i>Information Visualization</i> , <b>2018</b> , 17, 269-281	2.4	5
61	A Future with Ubiquitous Sensing and Intelligent Systems. <i>ACS Sensors</i> , <b>2018</b> , 3, 1433-1438	9.2	38
60	Electrical Immunosensor Made with Antigenic Peptide NS5A-1 Immobilized onto Silk Fibroin for Diagnosing Hepatitis C. <i>Journal of the Brazilian Chemical Society</i> , <b>2018</b> ,	1.5	2
59	Information Visualization and Feature Selection Methods Applied to Detect Gliadin in Gluten-Containing Foodstuff with a Microfluidic Electronic Tongue. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 19646-19652	9.5	38
58	Visualizing and Interacting with Kernelized Data. <i>IEEE Transactions on Visualization and Computer Graphics</i> , <b>2016</b> , 22, 1314-25	4	10
57	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> , <b>2016</b> , 81, C2344-C2351	3.4	16
56	Probing trace levels of prometryn solutions: from test samples in the lab toward real samples with tap water. <i>Journal of Materials Science</i> , <b>2016</b> , 51, 3182-3190	4.3	18
55	On the convergence of nanotechnology and Big Data analysis for computer-aided diagnosis. <i>Nanomedicine</i> , <b>2016</b> , 11, 959-82	5.6	17
54	Explaining three-dimensional dimensionality reduction plots. <i>Information Visualization</i> , <b>2016</b> , 15, 154-172.	4	19
53	. <i>IEEE Transactions on Multimedia</i> , <b>2016</b> , 18, 2238-2246	6.6	4
52	LoCH: A neighborhood-based multidimensional projection technique for high-dimensional sparse spaces. <i>Neurocomputing</i> , <b>2015</b> , 150, 546-556	5.4	13
51	Projection inspector: Assessment and synthesis of multidimensional projections. <i>Neurocomputing</i> , <b>2015</b> , 150, 599-610	5.4	20
50	Concentric RadViz: Visual Exploration of Multi-task Classification <b>2015</b> ,		6
49	Detection of trace levels of atrazine using surface-enhanced Raman scattering and information visualization. <i>Colloid and Polymer Science</i> , <b>2014</b> , 292, 2811-2820	2.4	16
48	On the distinct molecular architectures of dipping- and spray-LbL films containing lipid vesicles. <i>Materials Science and Engineering C</i> , <b>2014</b> , 41, 363-71	8.3	9
47	Where Chemical Sensors May Assist in Clinical Diagnosis Exploring Big Data <i>Chemistry Letters</i> , <b>2014</b> , 43, 1672-1679	1.7	12

46	Nmap: A Novel Neighborhood Preservation Space-filling Algorithm. <i>IEEE Transactions on Visualization and Computer Graphics</i> , <b>2014</b> , 20, 2063-71	4	23
45	Visualization of Music Collections Based on Structural Content Similarity <b>2014</b> ,		3
44	Visualization of protein folding funnels in lattice models. <i>PLoS ONE</i> , <b>2014</b> , 9, e100861	3.7	11
43	Molecularly designed layer-by-layer (LBL) films to detect catechol using information visualization methods. <i>Langmuir</i> , <b>2013</b> , 29, 7542-50	4	17
42	User-driven Feature Space Transformation. <i>Computer Graphics Forum</i> , <b>2013</b> , 32, 291-299	2.4	25
41	SERS mapping in Langmuir-Blodgett films and single-molecule detection. <i>Applied Spectroscopy</i> , <b>2013</b> , 67, 563-9	3.1	16
40	Detection of glucose and triglycerides using information visualization methods to process impedance spectroscopy data. <i>Sensors and Actuators B: Chemical</i> , <b>2012</b> , 166-167, 231-238	8.5	16
39	Employing 2D Projections for Fast Visual Exploration of Large Fiber Tracking Data. <i>Computer Graphics Forum</i> , <b>2012</b> , 31, 1075-1084	2.4	8
38	Semantic Wordification of Document Collections. <i>Computer Graphics Forum</i> , <b>2012</b> , 31, 1145-1153	2.4	45
37	User-Centered Multidimensional Projection Techniques. <i>Computing in Science and Engineering</i> , <b>2012</b> , 14, 74-81	1.5	14
36	Seeing beyond reading: a survey on visual text analytics. <i>Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery</i> , <b>2012</b> , 2, 476-492	6.9	36
35	Information visualization to enhance sensitivity and selectivity in biosensing. <i>Biointerphases</i> , <b>2012</b> , 7, 53	1.8	24
34	Colorization by Multidimensional Projection <b>2012</b> ,		4
33	Time-aware visualization of document collections <b>2012</b> ,		9
32	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> , <b>2012</b> , 28, 1029-40	4	17
31	A visual analysis approach to validate the selection review of primary studies in systematic reviews. <i>Information and Software Technology</i> , <b>2012</b> , 54, 1079-1091	3.4	27
30	Multidimensional Projections for Visual Analysis of Social Networks. <i>Journal of Computer Science and Technology</i> , <b>2012</b> , 27, 791-810	1.7	10
29	Local Affine Multidimensional Projection. <i>IEEE Transactions on Visualization and Computer Graphics</i> , <b>2011</b> , 17, 2563-71	4	131

28	Piece wise Laplacian-based Projection for Interactive Data Exploration and Organization. <i>Computer Graphics Forum</i> , <b>2011</b> , 30, 1091-1100	2.4	45
27	A Framework for Exploring Multidimensional Data with 3D Projections. <i>Computer Graphics Forum</i> , <b>2011</b> , 30, 1111-1120	2.4	18
26	Skeleton-based edge bundling for graph visualization. <i>IEEE Transactions on Visualization and Computer Graphics</i> , <b>2011</b> , 17, 2364-73	4	94
25	Using multidimensional projection techniques for reaching a high distinguishing ability in biosensing. <i>Analytical and Bioanalytical Chemistry</i> , <b>2011</b> , 400, 1153-9	4.4	17
24	Information visualization techniques for sensing and biosensing. <i>Analyst, The</i> , <b>2011</b> , 136, 1344-50	5	83
23	Strategies to optimize biosensors based on impedance spectroscopy to detect phytic acid using layer-by-layer films. <i>Analytical Chemistry</i> , <b>2010</b> , 82, 3239-46	7.8	24
22	Two-phase mapping for projecting massive data sets. <i>IEEE Transactions on Visualization and Computer Graphics</i> , <b>2010</b> , 16, 1281-90	4	55
21	Use of information visualization methods eliminating cross talk in multiple sensing units investigated for a light-addressable potentiometric sensor. <i>Analytical Chemistry</i> , <b>2010</b> , 82, 61-5	7.8	37
20	Visual Data Exploration to Feature Space Definition <b>2010</b> ,		2
19	Biosensors for efficient diagnosis of leishmaniasis: innovations in bioanalytics for a neglected disease. <i>Analytical Chemistry</i> , <b>2010</b> , 82, 9763-8	7.8	49
18	Visual analysis of image collections. <i>Visual Computer</i> , <b>2009</b> , 25, 923-937	2.3	30
17	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> , <b>2008</b> , 14, 564-75	4	148
16	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> , <b>2008</b> , 14, 1229-36	4	55
15	Similarity-Based Visualization of Time Series Collections: An Application to Analysis of Streamflows <b>2008</b> ,		2
14	PEX-WEB: Content-based Visualization of Web Search Results <b>2008</b> ,		6
13	<b>2008</b> ,		6
12	Multidimensional Visualization to Support Analysis of Image Collections <b>2008</b> ,		3
11	The Projection Explorer: A Flexible Tool for Projection-based Multidimensional Visualization <b>2007</b> ,		33

10	Visual text mining using association rules. <i>Computers and Graphics</i> , <b>2007</b> , 31, 316-326	1.8	44
9	Normalized compression distance for visual analysis of document collections. <i>Computers and Graphics</i> , <b>2007</b> , 31, 327-337	1.8	18
8	Point Placement by Phylogenetic Trees and its Application to Visual Analysis of Document Collections <b>2007</b> ,		23
7	Content-based text mapping using multi-dimensional projections for exploration of document collections <b>2006</b> ,		34
6	Mapping texts through dimensionality reduction and visualization techniques for interactive exploration of document collections <b>2006</b> , 6060, 271		
5	Text Map Explorer: a Tool to Create and Explore Document Maps		16
4	Visual Mapping of Text Collections through a Fast High Precision Projection Technique		8
3	The Projection Explorer: A Flexible Tool for Projection-based Multidimensional Visualization		4
2	Neural network training fingerprint: visual analytics of the training process in classification neural networks. <i>Journal of Visualization</i> ,1	1.6	
1	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