Roberto Theron

List of Publications by Year
in descending order

147	1,569	394286 19	414303 32
papers	citations	h-index	g-index

159	159	159	1447
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Proofâ€ofâ€concept of an information visualization classification approach based on their fineâ€grained features. Expert Systems, 2023, 40, e12872.	2.9	5
2	Developing a Research Method to Analyze Visual Literacy Based on Cross-Cultural Characteristics. , 2022, , 335-350.		0
3	A Meta-modeling Approach to Take into Account Data Domain Characteristics and Relationships in Information Visualizations. Advances in Intelligent Systems and Computing, 2021, , 570-580.	0.5	1
4	Towards a Technological Ecosystem to Provide Information Dashboards as a Service: A Dynamic Proposal for Supplying Dashboards Adapted to Specific Scenarios. Applied Sciences (Switzerland), 2021, 11, 3249.	1.3	7
5	Playing Design. Journal on Computing and Cultural Heritage, 2021, 14, 1-19.	1.2	5
6	Editorial: Uncertainty Visualization and Decision Making. Frontiers in Computer Science, 2021, 3, .	1.7	2
7	Evaluating a Taxonomy of Textual Uncertainty for Collaborative Visualisation in the Digital Humanities. Information (Switzerland), 2021, 12, 436.	1.7	1
8	Docencia de la asignatura InteraccIÃ³n Persona-Ordenador en tiempos de pandemia: una experiencia con Microsoft Teams - [Teaching Human-Computer Interaction in pandemic time: an experience with Microsoft Teams]. , 2021, , .		0
9	Experiencia piloto para incorporar la Ã©tica informÃ¡tica de forma transversal en el Grado de IngenierÃa InformÃ¡tica - [Pilot experience to mainstream computer ethics in the Computer Science Degree]. , 2021, , .		0
10	An experience with Microsoft Teams to improve the interaction with the students. , 2021, , .		0
11	Development of a SPOC of Computer Ethics for students of Computer Science degree. , 2021, , .		3
12	VisualizaciÃ³n de datos. Fonseca Journal of Communication, 2021, , 39-60.	0.2	2
13	User-Centered Design Approach for a Machine Learning Platform for Medical Purpose. Communications in Computer and Information Science, 2021, , 237-249.	0.4	4
14	Connecting domain-specific features to source code: towards the automatization of dashboard generation. Cluster Computing, 2020, 23, 1803-1816.	3.5	19
15	A meta-model to develop learning ecosystems with support for knowledge discovery and decision-making processes. , 2020, , .		0
16	Beneficios de la aplicaciÃ³n del paradigma de lÃneas de productos software para generar dashboards en contextos educativos. RIED: Revista Iberoamericana De EducaciÃ³n A Distancia, 2020, 23, 169.	0.8	1
17	A Meta-Model Integration for Supporting Knowledge Discovery in Specific Domains: A Case Study in Healthcare. Sensors, 2020, 20, 4072.	2.1	8
18	Defragmenting Research Areas with Knowledge Visualization and Visual Text Analytics. Applied Sciences (Switzerland), 2020, 10, 7248.	1.3	2

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19	A Data-Driven Introduction to Authors, Readings, and Techniques in Visualization for the Digital Humanities. IEEE Computer Graphics and Applications, 2020, 40, 45-57.	1.0	12
20	Representing Data Visualization Goals and Tasks through Meta-Modeling to Tailor Information Dashboards. Applied Sciences (Switzerland), 2020, 10, 2306.	1.3	14
21	AI-Driven Assessment of Students: Current Uses and Research Trends. Lecture Notes in Computer Science, 2020, , 292-302.	1.0	5
22	Assessed by Machines: Development of a TAM-Based Tool to Measure AI-based Assessment Acceptance Among Students. International Journal of Interactive Multimedia and Artificial Intelligence, 2020, 6, 80.	1.0	17
23	Aggregation Bias: A Proposal to Raise Awareness Regarding Inclusion in Visual Analytics. Advances in Intelligent Systems and Computing, 2020, , 409-417.	0.5	2
24	Visual Learning Analytics for a Better Impact of Big Data. Lecture Notes in Educational Technology, 2020, , 99-113.	0.5	1
25	A Dashboard to Support Decision-Making Processes in Learning Ecosystems. , 2020, , .		0
26	Advances in the use of domain engineering to support feature identification and generation of information visualizations. , 2020, , .		1
27	GlassViz: Visualizing Automatically-Extracted Entry Points for Exploring Scientific Corpora in Problem-Driven Visualization Research. , 2020, , .		3
28	Pilaster: A Collection of Citation Metadata Extracted From Publications on Visualization for the Digital Humanities. , 2020, , .		1
29	Group-Wise Principal Component Analysis for Exploratory Intrusion Detection. IEEE Access, 2019, 7, 113081-113093.	2.6	14
30	Information Dashboards and Tailoring Capabilities - A Systematic Literature Review. IEEE Access, 2019, 7, 109673-109688.	2.6	45
31	Cross-Domain Visual Exploration of Academic Corpora via the Latent Meaning of User-Authored Keywords. IEEE Access, 2019, 7, 98144-98160.	2.6	13
32	Measuring Studentsâ€™ Acceptance to AI-Driven Assessment in eLearning: Proposing a First TAM-Based Research Model. Lecture Notes in Computer Science, 2019, , 15-25.	1.0	21
33	Towards an Uncertainty-Aware Visualization in the Digital Humanities. Informatics, 2019, 6, 31.	2.4	10
34	How to Measure Teachers' Acceptance of AI-driven Assessment in eLearning. , 2019, , .		9
35	Intuitive Ontology-Based SPARQL Queries for RDF Data Exploration. IEEE Access, 2019, 7, 156272-156286.	2.6	4
36	Tailored information dashboards. , 2019, , .		9

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37	Assessing Visual Literacy in the Consumers of New Technologies. International Journal of Human Capital and Information Technology Professionals, 2019, 10, 1-21.	0.5	3
38	Technological Ecosystems in the Health Sector: a Mapping Study of European Research Projects. Journal of Medical Systems, 2019, 43, 100.	2.2	25
39	Dashboard Meta-Model for Knowledge Management in Technological Ecosystem: A Case Study in Healthcare. Proceedings (mdpi), 2019, 31, 44.	0.2	6
40	Linternauta: a web application for the interpretation of magic lantern slides according to discursive genre. Early Popular Visual Culture, 2019, 17, 361-385.	0.1	1
41	Capturing high-level requirements of information dashboards' components through meta-modeling. , 2019, , .		12
42	Genome-wide search of nucleosome patterns using visual analytics. Bioinformatics, 2019, 35, 2185-2192.	1.8	1
43	Analyzing the software architectures supporting HCI/HMI processes through a systematic review of the literature. Telematics and Informatics, 2019, 38, 118-132.	3.5	19
44	Addressing Fine-Grained Variability in User-Centered Software Product Lines: A Case Study on Dashboards. Advances in Intelligent Systems and Computing, 2019, , 855-864.	0.5	4
45	Taking advantage of the software product line paradigm to generate customized user interfaces for decision-making processes: a case study on university employability. PeerJ Computer Science, 2019, 5, e203.	2.7	20
46	'Uncertainty in Digital Humanities' track Lectures and Interaction for mutual learnings. , 2019, , .		0
47	Automatic generation of software interfaces for supporting decision-making processes. An application of domain engineering and machine learning. , 2019, , .		2
48	Exposing Uncertainty on the Historical Name Normalization Task. , 2019, , .		0
49	Enabling Adaptability in Web Forms Based on User Characteristics Detection Through A/B Testing and Machine Learning. IEEE Access, 2018, 6, 2251-2265.	2.6	20
50	How Different Versions of Layout and Complexity of Web Forms Affect Users After They Start It? A Pilot Experience. Advances in Intelligent Systems and Computing, 2018, , 971-979.	0.5	2
51	Toward supporting decision-making under uncertainty in digital humanities with progressive visualization. , 2018, , .		6
52	Uncertainty in Digital Humanities track summary. , 2018, , .		2
53	Domain engineering for generating dashboards to analyze employment and employability in the academic context. , 2018, , .		10
54	Data-Driven Visual Performance Analysis in Soccer: An Exploratory Prototype. Frontiers in Psychology, 2018, 9, 2416.	1.1	10

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55	UGRâ€˜16: A new dataset for the evaluation of cyclostationarity-based network IDSs. Computers and Security, 2018, 73, 411-424.	4.0	133
56	A Deep-Learning-Based Proposal to Aid Users in Quantum Computing Programming. Lecture Notes in Computer Science, 2018, , 421-430.	1.0	8
57	Application of Domain Engineering to Generate Customized Information Dashboards. Lecture Notes in Computer Science, 2018, , 518-529.	1.0	6
58	Proposing a Machine Learning Approach to Analyze and Predict Employment and its Factors. International Journal of Interactive Multimedia and Artificial Intelligence, 2018, 5, 39.	1.0	23
59	Developing a Research Method to Analyze Visual Literacy Based on Cross-Cultural Characteristics. Advances in IT Standards and Standardization Research Series, 2018, , 19-33.	0.2	3
60	JADOPPT: java based AutoDock preparing and processing tool. Bioinformatics, 2017, 33, 583-585.	1.8	14
61	Learning Communities in Social Networks and Their Relationship With the MOOCs. Revista Iberoamericana De Tecnologias Del Aprendizaje, 2017, 12, 24-36.	0.7	24
62	Network-wide intrusion detection supported by multivariate analysis and interactive visualization. , 2017, , .		12
63	An architectural proposal to explore the data of a private community through visual analytic. , 2017, , .		2
64	Overview of the 'New Trends in Digital Humanities' track. , 2017, , .		4
65	Interactive Data Visualization Using Dimensionality Reduction and Similarity-Based Representations. Lecture Notes in Computer Science, 2017, , 334-342.	1.0	7
66	Improving Success/Completion Ratio in Large Surveys: A Proposal Based on Usability and Engagement. Lecture Notes in Computer Science, 2017, , 352-370.	1.0	10
67	Interactive Data Visualization Using Dimensionality Reduction and Dissimilarity-Based Representations. Lecture Notes in Computer Science, 2017, , 461-469.	1.0	5
68	InnovaciÃ³n en la enseÃ±anza de la InteracciÃ³n Persona-Ordenador: interfaces imaginadas, ciencia-ficciÃ³n y trabajo con usuarios reales - [Innovation in teaching Human-Computer Interaction: imagined interfaces, sci-fi and working with real users]. , 2017, , .		1
69	Dimensionality reduction for interactive data visualization via a Geo-Desic approach. , 2016, , .		4
70	New trends in digital humanities. , 2016, , .		4
71	A spatio-temporal visual analysis tool for historical dictionaries. , 2016, , .		3
72	Designing collaborations. , 2016, , .		3

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73	Usalpharma: A Software Architecture to Support Learning in Virtual Worlds. Revista Iberoamericana De Tecnologias Del Aprendizaje, 2016, 11, 194-204.	0.7	9
74	BKViz: A Basketball Visual Analysis Tool. IEEE Computer Graphics and Applications, 2016, 36, 58-68.	1.0	37
75	Interactive visualization methodology of high-dimensional data with a color-based model for dimensionality reduction. , 2016, , .		6
76	Knowledge discovery in software teams by means of evolutionary visual software analytics. Science of Computer Programming, 2016, 121, 55-74.	1.5	14
77	Software Architectures Supporting Human-Computer Interaction Analysis: A Literature Review. Lecture Notes in Computer Science, 2016, , 125-136.	1.0	7
78	The relationships between visual communication and informal learning. , 2015, , .		2
79	Detection of non-formal and informal learning in Learning Communities supported by social networks in the context of a cooperative MOOC. , 2015, , .		4
80	Extending MOOC ecosystems using web services and software architectures. , 2015, , .		14
81	Diachronic-information visualization in historical dictionaries. Information Visualization, 2015, 14, 111-136.	1.2	6
82	Designing and building systems and tools to analyze visual communications on social networks. , 2015, , .		1
83	Tap into visual analysis of customization of grouping of activities in eLearning. Computers in Human Behavior, 2015, 47, 60-67.	5.1	76
84	Discovering usage behaviors and engagement in an Educational Virtual World. Computers in Human Behavior, 2015, 47, 18-25.	5.1	60
85	Exploring Software Engineering Subjects by Using Visual Learning Analytics Techniques. Revista Iberoamericana De Tecnologias Del Aprendizaje, 2015, 10, 242-252.	0.7	14
86	Bridging the gap between human knowledge and machine learning. Advances in Distributed Computing and Artificial Intelligence Journal, 2015, 4, 54-64.	1.1	18
87	Visual analytical model for educational data. , 2014, , .		3
88	Visual learning analytics techniques applied in software engineering subjects. , 2014, , .		10
89	Using software architectures to retrieve interaction information in eLearning environments. , 2014, , .		3
90	BicOverlapper 2.0: visual analysis for gene expression. Bioinformatics, 2014, 30, 1785-1786.	1.8	26

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91	Defining Generic Data Collectors for Learning Analytics: Facing Up the Heterogeneous Data from Heterogeneous Environments. , 2014, , .		6
92	Using OWL-VisMod through a decision-making process for reusing OWL ontologies. Behaviour and Information Technology, 2014, 33, 426-442.	2.5	12
93	Analytics of information flows and decision making in heterogeneous learning ecosystems. , 2014, , .		2
94	Monitoring and feedback of learning processes in virtual worlds through analytics architectures: A real case. , 2014, , .		12
95	Semiotic and technological analysis of photography. , 2014, , .		3
96	Highly interactive and natural user interfaces. , 2014, , .		5
97	NAPROC-13: A Carbon NMR Web Database for the Structural Elucidation of Natural Products and Food Phytochemicals. Advances in Intelligent Systems and Computing, 2014, , 9-19.	0.5	1
98	AnalÃtica visual en <i>e-learning</i>. Profesional De La Informacion, 2014, 23, 236-245.	2.7	41
99	A Deep Dive into Decades of Baseballâ€™s Recorded Statistics. Lecture Notes in Computer Science, 2014, , 15-26.	1.0	0
100	Humanâ€“computer interaction in evolutionary visual software analytics. Computers in Human Behavior, 2013, 29, 486-495.	5.1	27
101	Reveal the Relationships among Students Participation and Their Outcomes on E-Learning Environments: Case Study. , 2013, , .		6
102	Tap into visual analysis of the customization of grouping of activities in eLearning. , 2013, , .		3
103	Analyzing users' movements in virtual worlds. , 2013, , .		2
104	A Framework for the Evolutionary Visual Software Analytics Process. Communications in Computer and Information Science, 2013, , 439-447.	0.4	1
105	Towards an ontology modeling tool. A validation in software engineering scenarios. Expert Systems With Applications, 2012, 39, 11468-11478.	4.4	41
106	Through the Data Modelling Process of Turimov, an Ontology-Based Project for Mobile Intelligent Systems. Advances in Intelligent and Soft Computing, 2012, , 77-84.	0.2	0
107	TagClusters. , 2012, , 91-106.		0
108	Maleku: An evolutionary visual software analysis tool for providing insights into software evolution. , 2011, , .		9

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109	Supporting Moodle-Based Lesson through Visual Analysis. Lecture Notes in Computer Science, 2011, , 604-607.	1.0	2
110	Reveling the Evolution of Semantic Content through Visual Analysis. , 2011, , .		3
111	Semantic Zoom: A Details on Demand Visualisation Technique for Modelling OWL Ontologies. Advances in Intelligent and Soft Computing, 2011, , 85-92.	0.2	5
112	A middleware framework to create data structures for a visual analytics object oriented approach. International Journal of Knowledge and Learning, 2010, 6, 256.	0.1	0
113	Visualization of Intersecting Groups Based on Hypergraphs. IEICE Transactions on Information and Systems, 2010, E93-D, 1957-1964.	0.4	5
114	Visual Analytics to Support E-learning. , 2010, , .		8
115	A Survey on Ontology Metrics. Communications in Computer and Information Science, 2010, , 22-27.	0.4	27
116	Retrieval Information Model for Moodle Data Visualization. , 2010, , .		5
117	Visual Analysis of Time-Motion in Basketball Games. Lecture Notes in Computer Science, 2010, , 196-207.	1.0	10
118	Visualization of Large Software Projects by using Advanced Techniques. , 2010, , 325-330.		0
119	TagClusters. International Journal of Creative Interfaces and Computer Graphics, 2010, 1, 15-28.	0.1	1
120	Combined visualization of structural and metric information for software evolution analysis. , 2009, , .		9
121	Treevolution: visual analysis of phylogenetic trees. Bioinformatics, 2009, 25, 1970-1971.	1.8	23
122	Design of New Chemoinformatic Tools for the Analysis of Virtual Screening Studies: Application to Tubulin Inhibitors. Advances in Soft Computing, 2009, , 189-196.	0.4	2
123	TagClusters: Semantic Aggregation of Collaborative Tags beyond TagClouds. Lecture Notes in Computer Science, 2009, , 56-67.	1.0	21
124	A Middleware Framework to Create and Manage Data Structures for Visual Analytics. Communications in Computer and Information Science, 2009, , 466-473.	0.4	0
125	A visual analytics approach for understanding biclustering results from microarray data. BMC Bioinformatics, 2008, 9, 247.	1.2	46
126	Supporting the understanding of the evolution of software items. , 2008, , .		2

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127	BicOverlapper: A tool for bicluster visualization. Bioinformatics, 2008, 24, 1212-1213.	1.8	64
128	Understanding Educational Relationships in Moodle with ViMoodle. , 2008, , .		12
129	Overlapping Clustered Graphs: Co-authorship Networks Visualization. Lecture Notes in Computer Science, 2008, , 190-199.	1.0	13
130	NAPROC-13: a database for the dereplication of natural product mixtures in bioassay-guided protocols. Bioinformatics, 2007, 23, 3256-3257.	1.8	66
131	The Use of Information Visualization to Support Software Configuration Management. Lecture Notes in Computer Science, 2007, , 317-331.	1.0	8
132	A Framework to Analyze Biclustering Results on Microarray Experiments. , 2007, , 770-779.		3
133	Methods to Bicluster Validation and Comparison in Microarray Data. , 2007, , 780-789.		19
134	NATPRO-C13 â€" An Interactive Tool for the Structural Elucidation of Natural Compounds. Advances in Intelligent and Soft Computing, 2007, , 401-410.	0.2	1
135	Visual Analytics of Paleoceanographic Conditions. , 2006, , .		8
136	Visual Sensitivity Analysis for Artificial Neural Networks. Lecture Notes in Computer Science, 2006, , 191-198.	1.0	5
137	Visual Knowledge Discovery in Paleoclimatology with Parallel Coordinates. Lecture Notes in Computer Science, 2006, , 368-372.	1.0	0
138	Visual Discovery and Reconstruction of the Climatic Conditions of the Past. Lecture Notes in Computer Science, 2006, , 32-39.	1.0	0
139	Application of Chemoinformatics to the Structural Elucidation of Natural Compounds. Lecture Notes in Computer Science, 2006, , 1150-1157.	1.0	1
140	A Mathematical Formalism for the Evaluation of C-Space for Redundant Robots. Lecture Notes in Computer Science, 2005, , 596-601.	1.0	1
141	Rapid reconstruction of paleoenvironmental features using a new multiplatform program. Micropaleontology, 2004, 50, 391-395.	0.3	17
142	Hierarchical C-space evaluation for mobile robots. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2004, 37, 840-845.	0.4	0
143	Towards an Efficient Use of Memory in Evaluation of Configuration Space of a Robot. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2001, 34, 153-158.	0.4	0
144	C-Space Evaluation for Mobile Robots at Large Workspaces. , 0, , .		0

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145	AlfabetizaciÃ³n visual en nuevos medios: revisiÃ³n y mapeo sistemÃ¡tico de la literatura. Education in the Knowledge Society, 0, 20, 44.	2.0	5
146	Creating Meaningful Narratives in Collections of Historical Lexical Data. GI_Forum, 0, 1, 50-57.	0.2	2
147	UGRâ€™16: Un nuevo conjunto de datos para la evaluaciÃ³n de IDS de red. , 0, , .		0