

Roberto Theron

List of Publications by Year in descending order

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147
papers

1,569
citations

394286

19
h-index

414303

32
g-index

159
all docs

159
docs citations

159
times ranked

1447
citing authors

#	ARTICLE	IF	CITATIONS
1	UGRâ€™16: A new dataset for the evaluation of cyclostationarity-based network IDSs. Computers and Security, 2018, 73, 411-424.	4.0	133
2	Tap into visual analysis of customization of grouping of activities in eLearning. Computers in Human Behavior, 2015, 47, 60-67.	5.1	76
3	NAPROC-13: a database for the dereplication of natural product mixtures in bioassay-guided protocols. Bioinformatics, 2007, 23, 3256-3257.	1.8	66
4	BicOverlapper: A tool for bicluster visualization. Bioinformatics, 2008, 24, 1212-1213.	1.8	64
5	Discovering usage behaviors and engagement in an Educational Virtual World. Computers in Human Behavior, 2015, 47, 18-25.	5.1	60
6	A visual analytics approach for understanding biclustering results from microarray data. BMC Bioinformatics, 2008, 9, 247.	1.2	46
7	Information Dashboards and Tailoring Capabilities - A Systematic Literature Review. IEEE Access, 2019, 7, 109673-109688.	2.6	45
8	Towards an ontology modeling tool. A validation in software engineering scenarios. Expert Systems With Applications, 2012, 39, 11468-11478.	4.4	41
9	Análisis visual en <i>e-learning</i>. Profesional De La Informacion, 2014, 23, 236-245.	2.7	41
10	BKViz: A Basketball Visual Analysis Tool. IEEE Computer Graphics and Applications, 2016, 36, 58-68.	1.0	37
11	A Survey on Ontology Metrics. Communications in Computer and Information Science, 2010, , 22-27.	0.4	27
12	Humanâ€™computer interaction in evolutionary visual software analytics. Computers in Human Behavior, 2013, 29, 486-495.	5.1	27
13	BicOverlapper 2.0: visual analysis for gene expression. Bioinformatics, 2014, 30, 1785-1786.	1.8	26
14	Technological Ecosystems in the Health Sector: a Mapping Study of European Research Projects. Journal of Medical Systems, 2019, 43, 100.	2.2	25
15	Learning Communities in Social Networks and Their Relationship With the MOOCs. Revista Iberoamericana De Tecnologías Del Aprendizaje, 2017, 12, 24-36.	0.7	24
16	Treevolution: visual analysis of phylogenetic trees. Bioinformatics, 2009, 25, 1970-1971.	1.8	23
17	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
18	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

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19	TagClusters: Semantic Aggregation of Collaborative Tags beyond TagClouds. Lecture Notes in Computer Science, 2009, , 56-67.	1.0	21
20	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
21	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
22	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
23	Connecting domain-specific features to source code: towards the automatization of dashboard generation. Cluster Computing, 2020, 23, 1803-1816.	3.5	19
24	Methods to Bicluster Validation and Comparison in Microarray Data. , 2007, , 780-789.		19
25	Bridging the gap between human knowledge and machine learning. Advances in Distributed Computing and Artificial Intelligence Journal, 2015, 4, 54-64.	1.1	18
26	Rapid reconstruction of paleoenvironmental features using a new multiplatform program. Micropaleontology, 2004, 50, 391-395.	0.3	17
27	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
28	Extending MOOC ecosystems using web services and software architectures. , 2015, , .		14
29	Exploring Software Engineering Subjects by Using Visual Learning Analytics Techniques. Revista Iberoamericana De Tecnologías Del Aprendizaje, 2015, 10, 242-252.	0.7	14
30	JADOPPT: java based AutoDock preparing and processing tool. Bioinformatics, 2017, 33, 583-585.	1.8	14
31	Knowledge discovery in software teams by means of evolutionary visual software analytics. Science of Computer Programming, 2016, 121, 55-74.	1.5	14
32	Group-Wise Principal Component Analysis for Exploratory Intrusion Detection. IEEE Access, 2019, 7, 113081-113093.	2.6	14
33	Representing Data Visualization Goals and Tasks through Meta-Modeling to Tailor Information Dashboards. Applied Sciences (Switzerland), 2020, 10, 2306.	1.3	14
34	Cross-Domain Visual Exploration of Academic Corpora via the Latent Meaning of User-Authorred Keywords. IEEE Access, 2019, 7, 98144-98160.	2.6	13
35	Overlapping Clustered Graphs: Co-authorship Networks Visualization. Lecture Notes in Computer Science, 2008, , 190-199.	1.0	13
36	Understanding Educational Relationships in Moodle with ViMoodle. , 2008, , .		12

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37	Using OWL-VisMod through a decision-making process for reusing OWL ontologies. Behaviour and Information Technology, 2014, 33, 426-442.	2.5	12
38	Monitoring and feedback of learning processes in virtual worlds through analytics architectures: A real case. , 2014, , .		12
39	Network-wide intrusion detection supported by multivariate analysis and interactive visualization. , 2017, , .		12
40	Capturing high-level requirements of information dashboards' components through meta-modeling. , 2019, , .		12
41	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
42	Visual learning analytics techniques applied in software engineering subjects. , 2014, , .		10
43	Domain engineering for generating dashboards to analyze employment and employability in the academic context. , 2018, , .		10
44	Data-Driven Visual Performance Analysis in Soccer: An Exploratory Prototype. Frontiers in Psychology, 2018, 9, 2416.	1.1	10
45	Towards an Uncertainty-Aware Visualization in the Digital Humanities. Informatics, 2019, 6, 31.	2.4	10
46	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
47	Visual Analysis of Time-Motion in Basketball Games. Lecture Notes in Computer Science, 2010, , 196-207.	1.0	10
48	Combined visualization of structural and metric information for software evolution analysis. , 2009, , .		9
49	Maleku: An evolutionary visual software analysis tool for providing insights into software evolution. , 2011, , .		9
50	Usalpharma: A Software Architecture to Support Learning in Virtual Worlds. Revista Iberoamericana De Tecnologias Del Aprendizaje, 2016, 11, 194-204.	0.7	9
51	How to Measure Teachers' Acceptance of AI-driven Assessment in eLearning. , 2019, , .		9
52	Tailored information dashboards. , 2019, , .		9
53	Visual Analytics of Paleoceanographic Conditions. , 2006, , .		8
54	Visual Analytics to Support E-learning. , 2010, , .		8

#	ARTICLE	IF	CITATIONS
55	A Meta-Model Integration for Supporting Knowledge Discovery in Specific Domains: A Case Study in Healthcare. <i>Sensors</i> , 2020, 20, 4072.	2.1	8
56	A Deep-Learning-Based Proposal to Aid Users in Quantum Computing Programming. <i>Lecture Notes in Computer Science</i> , 2018, , 421-430.	1.0	8
57	The Use of Information Visualization to Support Software Configuration Management. <i>Lecture Notes in Computer Science</i> , 2007, , 317-331.	1.0	8
58	Towards a Technological Ecosystem to Provide Information Dashboards as a Service: A Dynamic Proposal for Supplying Dashboards Adapted to Specific Scenarios. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 3249.	1.3	7
59	Software Architectures Supporting Human-Computer Interaction Analysis: A Literature Review. <i>Lecture Notes in Computer Science</i> , 2016, , 125-136.	1.0	7
60	Interactive Data Visualization Using Dimensionality Reduction and Similarity-Based Representations. <i>Lecture Notes in Computer Science</i> , 2017, , 334-342.	1.0	7
61	Reveal the Relationships among Students Participation and Their Outcomes on E-Learning Environments: Case Study. , 2013, , .		6
62	Defining Generic Data Collectors for Learning Analytics: Facing Up the Heterogeneous Data from Heterogeneous Environments. , 2014, , .		6
63	Diachronic-information visualization in historical dictionaries. <i>Information Visualization</i> , 2015, 14, 111-136.	1.2	6
64	Interactive visualization methodology of high-dimensional data with a color-based model for dimensionality reduction. , 2016, , .		6
65	Toward supporting decision-making under uncertainty in digital humanities with progressive visualization. , 2018, , .		6
66	Dashboard Meta-Model for Knowledge Management in Technological Ecosystem: A Case Study in Healthcare. <i>Proceedings (mdpi)</i> , 2019, 31, 44.	0.2	6
67	Application of Domain Engineering to Generate Customized Information Dashboards. <i>Lecture Notes in Computer Science</i> , 2018, , 518-529.	1.0	6
68	Visual Sensitivity Analysis for Artificial Neural Networks. <i>Lecture Notes in Computer Science</i> , 2006, , 191-198.	1.0	5
69	Visualization of Intersecting Groups Based on Hypergraphs. <i>IEICE Transactions on Information and Systems</i> , 2010, E93-D, 1957-1964.	0.4	5
70	Retrieval Information Model for Moodle Data Visualization. , 2010, , .		5
71	Highly interactive and natural user interfaces. , 2014, , .		5
72	Playing Design. <i>Journal on Computing and Cultural Heritage</i> , 2021, 14, 1-19.	1.2	5

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73	AI-Driven Assessment of Students: Current Uses and Research Trends. Lecture Notes in Computer Science, 2020, , 292-302.	1.0	5
74	Interactive Data Visualization Using Dimensionality Reduction and Dissimilarity-Based Representations. Lecture Notes in Computer Science, 2017, , 461-469.	1.0	5
75	Semantic Zoom: A Details on Demand Visualisation Technique for Modelling OWL Ontologies. Advances in Intelligent and Soft Computing, 2011, , 85-92.	0.2	5
76	Alfabetizaci3n visual en nuevos medios: revisi3n y mapeo sistem3tico de la literatura. Education in the Knowledge Society, 0, 20, 44.	2.0	5
77	Proof4concept of an information visualization classification approach based on their fine-grained features. Expert Systems, 2023, 40, e12872.	2.9	5
78	Detection of non-formal and informal learning in Learning Communities supported by social networks in the context of a cooperative MOOC. , 2015, , .		4
79	Dimensionality reduction for interactive data visualization via a Geo-Desic approach. , 2016, , .		4
80	New trends in digital humanities. , 2016, , .		4
81	Overview of the 'New Trends in Digital Humanities' track. , 2017, , .		4
82	Intuitive Ontology-Based SPARQL Queries for RDF Data Exploration. IEEE Access, 2019, 7, 156272-156286.	2.6	4
83	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
84	User-Centered Design Approach for a Machine Learning Platform for Medical Purpose. Communications in Computer and Information Science, 2021, , 237-249.	0.4	4
85	Reveling the Evolution of Semantic Content through Visual Analysis. , 2011, , .		3
86	Tap into visual analysis of the customization of grouping of activities in eLearning. , 2013, , .		3
87	Visual analytical model for educational data. , 2014, , .		3
88	Using software architectures to retrieve interaction information in eLearning environments. , 2014, , .		3
89	Semiotic and technological analysis of photography. , 2014, , .		3
90	A spatio-temporal visual analysis tool for historical dictionaries. , 2016, , .		3

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91	Designing collaborations. , 2016, , .		3
92	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
93	A Framework to Analyze Biclustering Results on Microarray Experiments. , 2007, , 770-779.		3
94	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
95	Development of a SPOC of Computer Ethics for students of Computer Science degree. , 2021, , .		3
96	GlassViz: Visualizing Automatically-Extracted Entry Points for Exploring Scientific Corpora in Problem-Driven Visualization Research. , 2020, , .		3
97	Supporting the understanding of the evolution of software items. , 2008, , .		2
98	Supporting Moodle-Based Lesson through Visual Analysis. Lecture Notes in Computer Science, 2011, , 604-607.	1.0	2
99	Analyzing users' movements in virtual worlds. , 2013, , .		2
100	Analytics of information flows and decision making in heterogeneous learning ecosystems. , 2014, , .		2
101	The relationships between visual communication and informal learning. , 2015, , .		2
102	An architectural proposal to explore the data of a private community through visual analytic. , 2017, , .		2
103	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
104	Uncertainty in Digital Humanities track summary. , 2018, , .		2
105	Defragmenting Research Areas with Knowledge Visualization and Visual Text Analytics. Applied Sciences (Switzerland), 2020, 10, 7248.	1.3	2
106	Editorial: Uncertainty Visualization and Decision Making. Frontiers in Computer Science, 2021, 3, .	1.7	2
107	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
108	Creating Meaningful Narratives in Collections of Historical Lexical Data. GI_Forum, 0, 1, 50-57.	0.2	2

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109	Automatic generation of software interfaces for supporting decision-making processes. An application of domain engineering and machine learning. , 2019, , .		2
110	Aggregation Bias: A Proposal to Raise Awareness Regarding Inclusion in Visual Analytics. Advances in Intelligent Systems and Computing, 2020, , 409-417.	0.5	2
111	Visualizaci3n de datos. Fonseca Journal of Communication, 2021, , 39-60.	0.2	2
112	Designing and building systems and tools to analyze visual communications on social networks. , 2015, , .		1
113	<i>Linternauta</i>: 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
114	Genome-wide search of nucleosome patterns using visual analytics. Bioinformatics, 2019, 35, 2185-2192.	1.8	1
115	Beneficios de la aplicaci3n del paradigma de l3neas de productos software para generar dashboards en contextos educativos. RIED: Revista Iberoamericana De Educaci3n A Distancia, 2020, 23, 169.	0.8	1
116	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
117	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
118	Evaluating a Taxonomy of Textual Uncertainty for Collaborative Visualisation in the Digital Humanities. Information (Switzerland), 2021, 12, 436.	1.7	1
119	A Mathematical Formalism for the Evaluation of C-Space for Redundant Robots. Lecture Notes in Computer Science, 2005, , 596-601.	1.0	1
120	Application of Chemoinformatics to the Structural Elucidation of Natural Compounds. Lecture Notes in Computer Science, 2006, , 1150-1157.	1.0	1
121	NATPRO-C13 " An Interactive Tool for the Structural Elucidation of Natural Compounds. Advances in Intelligent and Soft Computing, 2007, , 401-410.	0.2	1
122	TagClusters. International Journal of Creative Interfaces and Computer Graphics, 2010, 1, 15-28.	0.1	1
123	A Framework for the Evolutionary Visual Software Analytics Process. Communications in Computer and Information Science, 2013, , 439-447.	0.4	1
124	Innovaci3n en la ense±anza de la Interacci3n Persona-Ordenador: interfaces imaginadas, ciencia-ficci3n y trabajo con usuarios reales - [Innovation in teaching Human-Computer Interaction: imagined interfaces, sci-fi and working with real users]. , 2017, , .		1
125	Visual Learning Analytics for a Better Impact of Big Data. Lecture Notes in Educational Technology, 2020, , 99-113.	0.5	1
126	Advances in the use of domain engineering to support feature identification and generation of information visualizations. , 2020, , .		1

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127	Pilaster: A Collection of Citation Metadata Extracted From Publications on Visualization for the Digital Humanities. , 2020, , .		1
128	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
129	Hierarchical C-space evaluation for mobile robots. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2004, 37, 840-845.	0.4	0
130	C-Space Evaluation for Mobile Robots at Large Workspaces. , 0, , .		0
131	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
132	A meta-model to develop learning ecosystems with support for knowledge discovery and decision-making processes. , 2020, , .		0
133	Visual Knowledge Discovery in Paleoclimatology with Parallel Coordinates. Lecture Notes in Computer Science, 2006, , 368-372.	1.0	0
134	Visual Discovery and Reconstruction of the Climatic Conditions of the Past. Lecture Notes in Computer Science, 2006, , 32-39.	1.0	0
135	A Middleware Framework to Create and Manage Data Structures for Visual Analytics. Communications in Computer and Information Science, 2009, , 466-473.	0.4	0
136	Visualization of Large Software Projects by using Advanced Techniques. , 2010, , 325-330.		0
137	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
138	TagClusters. , 2012, , 91-106.		0
139	A Deep Dive into Decades of Baseball's Recorded Statistics. Lecture Notes in Computer Science, 2014, , 15-26.	1.0	0
140	UGR's 16: Un nuevo conjunto de datos para la evaluación de IDS de red. , 0, , .		0
141	'Uncertainty in Digital Humanities' track Lectures and Interaction for mutual learnings. , 2019, , .		0
142	Developing a Research Method to Analyze Visual Literacy Based on Cross-Cultural Characteristics. , 2022, , 335-350.		0
143	Docencia de la asignatura Interacción 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
144	Experiencia piloto para incorporar la Ética informática de forma transversal en el Grado de Ingeniería Informática - [Pilot experience to mainstream computer ethics in the Computer Science Degree]. , 2021, , .		0

#	ARTICLE	IF	CITATIONS
145	Exposing Uncertainty on the Historical Name Normalization Task. , 2019, , .		0
146	A Dashboard to Support Decision-Making Processes in Learning Ecosystems. , 2020, , .		0
147	An experience with Microsoft Teams to improve the interaction with the students. , 2021, , .		0