

Miguel Arevalillo-Herráñez

List of Publications by Year in descending order

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72
papers

1,465
citations

471509

17
h-index

345221

36
g-index

74
all docs

74
docs citations

74
times ranked

1422
citing authors

#	ARTICLE	IF	CITATIONS
1	Using intra-task flexibility on an intelligent tutoring system to promote arithmetic problem-solving proficiency. <i>British Journal of Educational Technology</i> , 2022, 53, 1976-1992.	6.3	5
2	On the Influence of Affect in EEG-Based Subject Identification. <i>IEEE Transactions on Affective Computing</i> , 2021, 12, 391-401.	8.3	21
3	An Intra-Subject Approach Based on the Application of HMM to Predict Concentration in Educational Contexts from Nonintrusive Physiological Signals in Real-World Situations. <i>Sensors</i> , 2021, 21, 1777.	3.8	1
4	Single-channel EEG-based subject identification using visual stimuli. , 2021, , .		5
5	BED: A New Data Set for EEG-Based Biometrics. <i>IEEE Internet of Things Journal</i> , 2021, 8, 12219-12230.	8.7	23
6	Scalable Virtual Network Video-Optimizer for Adaptive Real-Time Video Transmission in 5G Networks. <i>IEEE Transactions on Network and Service Management</i> , 2020, 17, 1068-1081.	4.9	19
7	Combining Inter-Subject Modeling with a Subject-Based Data Transformation to Improve Affect Recognition from EEG Signals. <i>Sensors</i> , 2019, 19, 2999.	3.8	29
8	Image-Evoked Affect and its Impact on Eeg-Based Biometrics. , 2019, , .		4
9	On Incorporating Affective Support to an Intelligent Tutoring System: an Empirical Study. <i>Revista Iberoamericana De Tecnologías Del Aprendizaje</i> , 2018, 13, 63-69.	0.9	7
10	Some insights into the impact of affective information when delivering feedback to students. <i>Behaviour and Information Technology</i> , 2018, 37, 1252-1263.	4.0	20
11	Efficient Analysis and Synthesis Using a New Factorization of the Gabor Frame Matrix. <i>IEEE Transactions on Signal Processing</i> , 2018, 66, 4564-4573.	5.3	4
12	Steered Response Power Localization of Acoustic Passband Signals. <i>IEEE Signal Processing Letters</i> , 2017, 24, 717-721.	3.6	12
13	Adding sensor-free intention-based affective support to an Intelligent Tutoring System. <i>Knowledge-Based Systems</i> , 2017, 132, 85-93.	7.1	12
14	Learning Similarity Scores by Using a Family of Distance Functions in Multiple Feature Spaces. <i>International Journal of Pattern Recognition and Artificial Intelligence</i> , 2017, 31, 1750027.	1.2	2
15	Fusing highly dimensional energy and connectivity features to identify affective states from EEG signals. <i>Neurocomputing</i> , 2017, 244, 81-89.	5.9	60
16	BIG-AFF., 2017, , .		1
17	Combining Supervised and Unsupervised Learning to Discover Emotional Classes. , 2017, , .		2
18	Using System Dynamics to Model Student Performance in an Intelligent Tutoring System. , 2017, , .		2

#	ARTICLE	IF	CITATIONS
19	Combining feature extraction and expansion to improve classification based similarity learning. Pattern Recognition Letters, 2017, 93, 95-103.	4.2	11
20	Gui-driven intelligent tutoring system with affective support to help learning the algebraic method. , 2017, , .		3
21	Class discovery from semi-structured EEG data for affective computing and personalisation. , 2017, , .		1
22	Predicting human performance in interactive tasks by using dynamic models. , 2017, , .		0
23	A Robust Wrap Reduction Algorithm for Fringe Projection Profilometry and Applications in Magnetic Resonance Imaging. IEEE Transactions on Image Processing, 2017, 26, 1452-1465.	9.8	4
24	Towards Psychologically based Personalised Modelling of Emotions Using Associative Classifiers. International Journal of Cognitive Informatics and Natural Intelligence, 2016, 10, 52-64.	0.4	6
25	A Robust and Simple Measure for Quality-Guided 2D Phase Unwrapping Algorithms. IEEE Transactions on Image Processing, 2016, 25, 2601-2609.	9.8	67
26	A spatial algorithm to reduce phase wraps from two dimensional signals in fringe projection profilometry. Optics and Lasers in Engineering, 2016, 82, 70-78.	3.8	9
27	Shifting of wrapped phase maps in the frequency domain using a rational number. Measurement Science and Technology, 2016, 27, 105003.	2.6	5
28	Fast fringe pattern phase demodulation using FIR Hilbert transformers. Optics Communications, 2016, 359, 200-206.	2.1	13
29	Aiding phase unwrapping by increasing the number of residues in two-dimensional wrapped-phase distributions. Applied Optics, 2015, 54, 10073.	2.1	10
30	Intensive scaffolding in an intelligent tutoring system for the learning of algebraic word problem solving. British Journal of Educational Technology, 2015, 46, 1189-1200.	6.3	15
31	Classification Similarity Learning Using Feature-Based and Distance-Based Representations: A Comparative Study. Applied Artificial Intelligence, 2015, 29, 445-458.	3.2	7
32	Improving distance based image retrieval using non-dominated sorting genetic algorithm. Pattern Recognition Letters, 2015, 53, 109-117.	4.2	7
33	Filtering of Spontaneous and Low Intensity Emotions in Educational Contexts. Lecture Notes in Computer Science, 2015, , 429-438.	1.3	15
34	Cognitive reasoning and inferences through psychologically based personalised modelling of emotions using associative classifiers. , 2014, , .		5
35	Emulating Human Supervision in an Intelligent Tutoring System for Arithmetical Problem Solving. IEEE Transactions on Learning Technologies, 2014, 7, 155-164.	3.2	22
36	Impact evaluation of reactive assessment strategies to address social loafing by promoting student cooperation and encouraging mutual support. Innovations in Education and Teaching International, 2014, 51, 523-532.	2.5	5

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37	Passive-“aggressive online distance metric learning and extensions. Progress in Artificial Intelligence, 2013, 2, 85-96.	2.4	0
38	A hybrid multi-objective optimization algorithm for content based image retrieval. Applied Soft Computing Journal, 2013, 13, 4358-4369.	7.2	11
39	Domain-specific knowledge representation and inference engine for an intelligent tutoring system. Knowledge-Based Systems, 2013, 49, 97-105.	7.1	26
40	An improved distance-based relevance feedback strategy for image retrieval. Image and Vision Computing, 2013, 31, 704-713.	4.5	12
41	Fundamentals of the design and the operation of an intelligent tutoring system for the learning of the arithmetical and algebraic way of solving word problems. Computers and Education, 2013, 63, 119-130.	8.3	33
42	Comparative Evaluation of Batch and Online Distance Metric Learning Approaches Based on Margin Maximization. , 2013, , .		4
43	Eigenexpressions: Emotion Recognition Using Multiple Eigenspaces. Lecture Notes in Computer Science, 2013, , 758-765.	1.3	3
44	A NSGA Based Approach for Content Based Image Retrieval. Lecture Notes in Computer Science, 2013, , 359-366.	1.3	3
45	Conquer the Net: An educational computer game to learn the basic configuration of networking components. Computer Applications in Engineering Education, 2012, 20, 72-77.	3.4	7
46	Domain Specific Knowledge Representation for an Intelligent Tutoring System to Teach Algebraic Reasoning. Lecture Notes in Computer Science, 2012, , 630-631.	1.3	5
47	Educational knowledge generation from administrative data. Educational Technology Research and Development, 2011, 59, 511-527.	2.8	3
48	Distance-based relevance feedback using a hybrid interactive genetic algorithm for image retrieval. Applied Soft Computing Journal, 2011, 11, 1782-1791.	7.2	34
49	A naive relevance feedback model for content-based image retrieval using multiple similarity measures. Pattern Recognition, 2010, 43, 619-629.	8.1	30
50	A reconfigurable platform for evaluating the performance of QoS networks. Journal of Systems Architecture, 2010, 56, 191-207.	4.3	1
51	A group-theory method to find stationary states in nonlinear discrete symmetry systems. Computer Physics Communications, 2010, 181, 35-42.	7.5	2
52	A Linear Cost Algorithm to Compute the Discrete Gabor Transform. IEEE Transactions on Signal Processing, 2010, 58, 2667-2674.	5.3	10
53	Clustering-based robust three-dimensional phase unwrapping algorithm. Applied Optics, 2010, 49, 1780.	2.1	6
54	Designing supercontinuum spectra using Grid technology. , 2010, , .		2

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55	Interactive Image Retrieval Using Smoothed Nearest Neighbor Estimates. Lecture Notes in Computer Science, 2010, , 708-717.	1.3	4
56	A generalized finite difference method using CoatsmÃ“lec lattices. Computer Physics Communications, 2009, 180, 1125-1133.	7.5	4
57	Three-dimensional phase unwrapping using the Hungarian algorithm. Optics Letters, 2009, 34, 2994.	3.3	10
58	Robust three-dimensional best-path phase-unwrapping algorithm that avoids singularity loops. Applied Optics, 2009, 48, 4582.	2.1	26
59	Hybrid robust and fast algorithm for three-dimensional phase unwrapping. Applied Optics, 2009, 48, 6313.	2.1	15
60	An interactive evolutionary approach for content based image retrieval. , 2009, , .		3
61	Data Analysis as a Tool for Optimizing Learning Management Systems. , 2009, , .		0
62	A relevance feedback CBIR algorithm based on fuzzy sets. Signal Processing: Image Communication, 2008, 23, 490-504.	3.2	16
63	Combining similarity measures in content-based image retrieval. Pattern Recognition Letters, 2008, 29, 2174-2181.	4.2	38
64	Learning combined similarity measures from user data for image retrieval. , 2008, , .		1
65	Agglomerative clustering-based approach for two-dimensional phase unwrapping. Applied Optics, 2005, 44, 1129.	2.1	30
66	Fast two-dimensional phase-unwrapping algorithm based on sorting by reliability following a noncontinuous path. Applied Optics, 2002, 41, 7437.	2.1	591
67	Robust, fast, and effective two-dimensional automatic phase unwrapping algorithm based on image decomposition. Applied Optics, 2002, 41, 7445.	2.1	35
68	Accelerating fast Fourier transform and filtering operations in Fourier fringe analysis for accurate measurement of three-dimensional surfaces. Optics and Lasers in Engineering, 1999, 31, 135-145.	3.8	17
69	<title>Treatment of nonfull-field images with the Fourier fringe analysis technique</title>. , 1997, , .		0
70	Robust, simple, and fast algorithm for phase unwrapping. Applied Optics, 1996, 35, 5847.	2.1	45
71	CombinaciÃ“n de cuestionarios simples y gamificados utilizando gestores de participaciÃ“n en el aula: experiencia y percepciÃ“n del alumnado. , 0, , .		3
72	Game-based learning supported by audience response tools: game proposals and preliminary assessment. , 0, , .		1