

Miguel Arevalillo-Herráñez

List of Publications by Year in descending order

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Version: 2024-02-01

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 | Fast two-dimensional phase-unwrapping algorithm based on sorting by reliability following a noncontinuous path. <i>Applied Optics</i> , 2002, 41, 7437. | 2.1 | 591 |
| 2 | A Robust and Simple Measure for Quality-Guided 2D Phase Unwrapping Algorithms. <i>IEEE Transactions on Image Processing</i> , 2016, 25, 2601-2609. | 9.8 | 67 |
| 3 | Fusing highly dimensional energy and connectivity features to identify affective states from EEG signals. <i>Neurocomputing</i> , 2017, 244, 81-89. | 5.9 | 60 |
| 4 | Robust, simple, and fast algorithm for phase unwrapping. <i>Applied Optics</i> , 1996, 35, 5847. | 2.1 | 45 |
| 5 | Combining similarity measures in content-based image retrieval. <i>Pattern Recognition Letters</i> , 2008, 29, 2174-2181. | 4.2 | 38 |
| 6 | Robust, fast, and effective two-dimensional automatic phase unwrapping algorithm based on image decomposition. <i>Applied Optics</i> , 2002, 41, 7445. | 2.1 | 35 |
| 7 | Distance-based relevance feedback using a hybrid interactive genetic algorithm for image retrieval. <i>Applied Soft Computing Journal</i> , 2011, 11, 1782-1791. | 7.2 | 34 |
| 8 | 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. <i>Computers and Education</i> , 2013, 63, 119-130. | 8.3 | 33 |
| 9 | Agglomerative clustering-based approach for two-dimensional phase unwrapping. <i>Applied Optics</i> , 2005, 44, 1129. | 2.1 | 30 |
| 10 | A naive relevance feedback model for content-based image retrieval using multiple similarity measures. <i>Pattern Recognition</i> , 2010, 43, 619-629. | 8.1 | 30 |
| 11 | 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 |
| 12 | Robust three-dimensional best-path phase-unwrapping algorithm that avoids singularity loops. <i>Applied Optics</i> , 2009, 48, 4582. | 2.1 | 26 |
| 13 | Domain-specific knowledge representation and inference engine for an intelligent tutoring system. <i>Knowledge-Based Systems</i> , 2013, 49, 97-105. | 7.1 | 26 |
| 14 | BED: A New Data Set for EEG-Based Biometrics. <i>IEEE Internet of Things Journal</i> , 2021, 8, 12219-12230. | 8.7 | 23 |
| 15 | Emulating Human Supervision in an Intelligent Tutoring System for Arithmetical Problem Solving. <i>IEEE Transactions on Learning Technologies</i> , 2014, 7, 155-164. | 3.2 | 22 |
| 16 | On the Influence of Affect in EEG-Based Subject Identification. <i>IEEE Transactions on Affective Computing</i> , 2021, 12, 391-401. | 8.3 | 21 |
| 17 | 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 |
| 18 | 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 |

| # | ARTICLE | IF | CITATIONS |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 19 | Accelerating fast Fourier transform and filtering operations in Fourier fringe analysis for accurate measurement of three-dimensional surfaces. <i>Optics and Lasers in Engineering</i> , 1999, 31, 135-145. | 3.8 | 17 |
| 20 | A relevance feedback CBIR algorithm based on fuzzy sets. <i>Signal Processing: Image Communication</i> , 2008, 23, 490-504. | 3.2 | 16 |
| 21 | Hybrid robust and fast algorithm for three-dimensional phase unwrapping. <i>Applied Optics</i> , 2009, 48, 6313. | 2.1 | 15 |
| 22 | Intensive scaffolding in an intelligent tutoring system for the learning of algebraic word problem solving. <i>British Journal of Educational Technology</i> , 2015, 46, 1189-1200. | 6.3 | 15 |
| 23 | Filtering of Spontaneous and Low Intensity Emotions in Educational Contexts. <i>Lecture Notes in Computer Science</i> , 2015, , 429-438. | 1.3 | 15 |
| 24 | Fast fringe pattern phase demodulation using FIR Hilbert transformers. <i>Optics Communications</i> , 2016, 359, 200-206. | 2.1 | 13 |
| 25 | An improved distance-based relevance feedback strategy for image retrieval. <i>Image and Vision Computing</i> , 2013, 31, 704-713. | 4.5 | 12 |
| 26 | Steered Response Power Localization of Acoustic Passband Signals. <i>IEEE Signal Processing Letters</i> , 2017, 24, 717-721. | 3.6 | 12 |
| 27 | Adding sensor-free intention-based affective support to an Intelligent Tutoring System. <i>Knowledge-Based Systems</i> , 2017, 132, 85-93. | 7.1 | 12 |
| 28 | A hybrid multi-objective optimization algorithm for content based image retrieval. <i>Applied Soft Computing Journal</i> , 2013, 13, 4358-4369. | 7.2 | 11 |
| 29 | Combining feature extraction and expansion to improve classification based similarity learning. <i>Pattern Recognition Letters</i> , 2017, 93, 95-103. | 4.2 | 11 |
| 30 | Three-dimensional phase unwrapping using the Hungarian algorithm. <i>Optics Letters</i> , 2009, 34, 2994. | 3.3 | 10 |
| 31 | A Linear Cost Algorithm to Compute the Discrete Gabor Transform. <i>IEEE Transactions on Signal Processing</i> , 2010, 58, 2667-2674. | 5.3 | 10 |
| 32 | Aiding phase unwrapping by increasing the number of residues in two-dimensional wrapped-phase distributions. <i>Applied Optics</i> , 2015, 54, 10073. | 2.1 | 10 |
| 33 | A spatial algorithm to reduce phase wraps from two dimensional signals in fringe projection profilometry. <i>Optics and Lasers in Engineering</i> , 2016, 82, 70-78. | 3.8 | 9 |
| 34 | Conquer the Net: An educational computer game to learn the basic configuration of networking components. <i>Computer Applications in Engineering Education</i> , 2012, 20, 72-77. | 3.4 | 7 |
| 35 | Classification Similarity Learning Using Feature-Based and Distance-Based Representations: A Comparative Study. <i>Applied Artificial Intelligence</i> , 2015, 29, 445-458. | 3.2 | 7 |
| 36 | Improving distance based image retrieval using non-dominated sorting genetic algorithm. <i>Pattern Recognition Letters</i> , 2015, 53, 109-117. | 4.2 | 7 |

| # | ARTICLE | IF | CITATIONS |
|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 37 | On Incorporating Affective Support to an Intelligent Tutoring System: an Empirical Study. Revista Iberoamericana De Tecnologías Del Aprendizaje, 2018, 13, 63-69. | 0.9 | 7 |
| 38 | Clustering-based robust three-dimensional phase unwrapping algorithm. Applied Optics, 2010, 49, 1780. | 2.1 | 6 |
| 39 | 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 |
| 40 | Cognitive reasoning and inferences through psychologically based personalised modelling of emotions using associative classifiers. , 2014, , . | | 5 |
| 41 | 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 |
| 42 | Shifting of wrapped phase maps in the frequency domain using a rational number. Measurement Science and Technology, 2016, 27, 105003. | 2.6 | 5 |
| 43 | Single-channel EEG-based subject identification using visual stimuli. , 2021, , . | | 5 |
| 44 | Domain Specific Knowledge Representation for an Intelligent Tutoring System to Teach Algebraic Reasoning. Lecture Notes in Computer Science, 2012, , 630-631. | 1.3 | 5 |
| 45 | Using intra-task flexibility on an intelligent tutoring system to promote arithmetic problem-solving proficiency. British Journal of Educational Technology, 2022, 53, 1976-1992. | 6.3 | 5 |
| 46 | A generalized finite difference method using CoatsmÅ“lec lattices. Computer Physics Communications, 2009, 180, 1125-1133. | 7.5 | 4 |
| 47 | Comparative Evaluation of Batch and Online Distance Metric Learning Approaches Based on Margin Maximization. , 2013, , . | | 4 |
| 48 | Efficient Analysis and Synthesis Using a New Factorization of the Gabor Frame Matrix. IEEE Transactions on Signal Processing, 2018, 66, 4564-4573. | 5.3 | 4 |
| 49 | Image-Evoked Affect and its Impact on Eeg-Based Biometrics. , 2019, , . | | 4 |
| 50 | Interactive Image Retrieval Using Smoothed Nearest Neighbor Estimates. Lecture Notes in Computer Science, 2010, , 708-717. | 1.3 | 4 |
| 51 | 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 |
| 52 | An interactive evolutionary approach for content based image retrieval. , 2009, , . | | 3 |
| 53 | Educational knowledge generation from administrative data. Educational Technology Research and Development, 2011, 59, 511-527. | 2.8 | 3 |
| 54 | Gui-driven intelligent tutoring system with affective support to help learning the algebraic method. , 2017, , . | | 3 |

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|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 55 | Eigenexpressions: Emotion Recognition Using Multiple Eigenspaces. Lecture Notes in Computer Science, 2013, , 758-765. | 1.3 | 3 |
| 56 | A NSGA Based Approach for Content Based Image Retrieval. Lecture Notes in Computer Science, 2013, , 359-366. | 1.3 | 3 |
| 57 | Combinaci3n de cuestionarios simples y gamificados utilizando gestores de participaci3n en el aula: experiencia y percepci3n del alumnado. , 0, , . | | 3 |
| 58 | A group-theory method to find stationary states in nonlinear discrete symmetry systems. Computer Physics Communications, 2010, 181, 35-42. | 7.5 | 2 |
| 59 | Designing supercontinuum spectra using Grid technology. , 2010, , . | | 2 |
| 60 | Learning Similarity Scores by Using a Family of Distance Functions in Multiple Feature Spaces. International Journal of Pattern Recognition and Artificial Intelligence, 2017, 31, 1750027. | 1.2 | 2 |
| 61 | Combining Supervised and Unsupervised Learning to Discover Emotional Classes. , 2017, , . | | 2 |
| 62 | Using System Dynamics to Model Student Performance in an Intelligent Tutoring System. , 2017, , . | | 2 |
| 63 | Learning combined similarity measures from user data for image retrieval. , 2008, , . | | 1 |
| 64 | A reconfigurable platform for evaluating the performance of QoS networks. Journal of Systems Architecture, 2010, 56, 191-207. | 4.3 | 1 |
| 65 | BIG-AFF. , 2017, , . | | 1 |
| 66 | Class discovery from semi-structured EEG data for affective computing and personalisation. , 2017, , . | | 1 |
| 67 | An Intra-Subject Approach Based on the Application of HMM to Predict Concentration in Educational Contexts from Nonintrusive Physiological Signals in Real-World Situations. Sensors, 2021, 21, 1777. | 3.8 | 1 |
| 68 | Game-based learning supported by audience response tools: game proposals and preliminary assessment. , 0, , . | | 1 |
| 69 | <title>Treatment of nonfull-field images with the Fourier fringe analysis technique</title>. , 1997, , . | | 0 |
| 70 | Data Analysis as a Tool for Optimizing Learning Management Systems. , 2009, , . | | 0 |
| 71 | Passiveâ€“aggressive online distance metric learning and extensions. Progress in Artificial Intelligence, 2013, 2, 85-96. | 2.4 | 0 |
| 72 | Predicting human performance in interactive tasks by using dynamic models. , 2017, , . | | 0 |