

Ismael De la Rosa

List of Publications by Year in descending order

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Version: 2024-02-01

58
papers

449
citations

932766
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794141
19
g-index

58
all docs

58
docs citations

58
times ranked

363
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Regularized quadratic cost function for oriented fringe-pattern filtering. Optics Letters, 2009, 34, 1741. | 1.7 | 47 |
| 2 | Phase recovery from a single fringe pattern using an orientational vector-field-regularized estimator. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2005, 22, 2766. | 0.8 | 42 |
| 3 | Calibration of a greenhouse climate model using evolutionary algorithms. Biosystems Engineering, 2009, 104, 135-142. | 1.9 | 37 |
| 4 | Anisotropic phase-map denoising using a regularized cost-function with complex-valued Markov-random-fields. Optics and Lasers in Engineering, 2010, 48, 650-656. | 2.0 | 32 |
| 5 | Chlorophyll fluorescence emission of tomato plants as a response to pulsed light based LEDs. Plant Growth Regulation, 2013, 69, 117-123. | 1.8 | 28 |
| 6 | Analysis of a multiclass classification problem by Lasso Logistic Regression and Singular Value Decomposition to identify sound patterns in queenless bee colonies. Computers and Electronics in Agriculture, 2019, 159, 69-74. | 3.7 | 26 |
| 7 | 2-D Continuous Wavelet Transform for ESPI phase-maps denoising. Optics and Lasers in Engineering, 2013, 51, 1060-1065. | 2.0 | 21 |
| 8 | Bootstrap Methods for a Measurement Estimation Problem. IEEE Transactions on Instrumentation and Measurement, 2006, 55, 820-827. | 2.4 | 20 |
| 9 | Training deep neural networks with non-uniform frame-level cost function for automatic speech recognition. Multimedia Tools and Applications, 2018, 77, 27231-27267. | 2.6 | 17 |
| 10 | Multi-factor authentication model based on multipurpose speech watermarking and online speaker recognition. Multimedia Tools and Applications, 2017, 76, 7251-7281. | 2.6 | 14 |
| 11 | Minimum-entropy, PDF approximation, and kernel selection for measurement estimation. IEEE Transactions on Instrumentation and Measurement, 2003, 52, 1009-1020. | 2.4 | 13 |
| 12 | A comparative between Mel Frequency Cepstral Coefficients (MFCC) and Inverse Mel Frequency Cepstral Coefficients (IMFCC) features for an Automatic Bird Species Recognition System. , 2018, , . | | 12 |
| 13 | In-Vehicle Alcohol Detection Using Low-Cost Sensors and Genetic Algorithms to Aid in the Drinking and Driving Detection. Sensors, 2021, 21, 7752. | 2.1 | 11 |
| 14 | Speech recognition in a dialog system: from conventional to deep processing. Multimedia Tools and Applications, 2018, 77, 15875-15911. | 2.6 | 10 |
| 15 | Fringe pattern denoising using spatial oriented gaussian filters. Optics Communications, 2020, 457, 124704. | 1.0 | 10 |
| 16 | Absolute measurements of thermal effusivity using the electropyroelectric technique. Thermochemica Acta, 2013, 554, 59-62. | 1.2 | 9 |
| 17 | Markov Chain Monte Carlo Posterior Density Approximation for a Groove-Dimensioning Purpose. IEEE Transactions on Instrumentation and Measurement, 2006, 55, 112-122. | 2.4 | 7 |
| 18 | Foucault test: shadowgram modeling from the physical theory for quantitative evaluations. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2014, 31, 2719. | 0.8 | 7 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | A case study of speech recognition in Spanish: From conventional to deep approach. , 2016, , . | | 7 |
| 20 | Temporal fringe projection profilometry: Modified fringe-frequency range for error reduction. Optics and Lasers in Engineering, 2022, 149, 106788. | 2.0 | 7 |
| 21 | Digital Speech Watermarking Based on Linear Predictive Analysis and Singular Value Decomposition. Proceedings of the National Academy of Sciences India Section A - Physical Sciences, 2017, 87, 433-446. | 0.8 | 6 |
| 22 | A comparative case study of neural network training by using frame-level cost functions for automatic speech recognition purposes in Spanish. Multimedia Tools and Applications, 2020, 79, 19669-19715. | 2.6 | 6 |
| 23 | N-dimensional regularized fringe direction-estimator. Optics Express, 2010, 18, 16567. | 1.7 | 5 |
| 24 | MAP entropy estimation: applications in robust image filtering. Journal of the European Optical Society-Rapid Publications, 0, 8, . | 0.9 | 5 |
| 25 | A tour of nonlocal means techniques for image filtering. , 2016, , . | | 5 |
| 26 | Semi-Huber potential function for image segmentation. Optics Express, 2012, 20, 6542. | 1.7 | 4 |
| 27 | An alternative method for phase-unwrapping of interferometric data. Journal of the European Optical Society-Rapid Publications, 0, 9, . | 0.9 | 4 |
| 28 | Speech recognition using deep neural networks trained with non-uniform frame-level cost functions. , 2017, , . | | 4 |
| 29 | Mortality Analysis of Patients with COVID-19 in Mexico Based on Risk Factors Applying Machine Learning Techniques. Diagnostics, 2022, 12, 1396. | 1.3 | 4 |
| 30 | Markovian Random Fields and Comparison Between Different Convex Criterion. , 2007, , . | | 3 |
| 31 | An alternative approach to the tomographic reconstruction of smooth refractive index distributions. Journal of the European Optical Society-Rapid Publications, 0, 8, . | 0.9 | 3 |
| 32 | Matlab Graphic User Interface for image segmentation using Markov random fields and entropy estimation with parallel processing. , 2014, , . | | 3 |
| 33 | Application of an Annular/Sphere Search Algorithm for Speaker Recognition. , 0, , . | | 2 |
| 34 | Directional filters for fringe pattern denoising. , 2009, , . | | 2 |
| 35 | Vadose zone hydraulic conductivity monitoring by using an arduino data acquisition system. , 2018, , . | | 2 |
| 36 | Limited-data automatic speaker verification algorithm using band-limited phase-only correlation function. Turkish Journal of Electrical Engineering and Computer Sciences, 2019, 27, 3150-3164. | 0.9 | 2 |

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|----|--|-----|-----------|
| 37 | Acoustic Individual Identification in Birds Based on the Band-Limited Phase-Only Correlation Function. Applied Sciences (Switzerland), 2020, 10, 2382. | 1.3 | 2 |
| 38 | Towards the automatization of the Foucault knife-edge quantitative test. , 2017, , . | | 2 |
| 39 | A Statistical Inference Comparison for Measurement Estimation Using Stochastic Simulation Techniques. IEEE Transactions on Instrumentation and Measurement, 2008, 57, 2169-2180. | 2.4 | 1 |
| 40 | Bayesian entropy estimation: Applications in robust image filtering. , 2012, , . | | 1 |
| 41 | Semi-Huber quadratic function and comparative study of some MRFs for Bayesian image restoration. Journal of the European Optical Society-Rapid Publications, 0, 8, . | 0.9 | 1 |
| 42 | Hilbert vs. exponential Kernel functionals for Nonlocal Means image filtering. , 2015, , . | | 1 |
| 43 | Demodulation of single interferograms using a sliding 2-D continuous wavelet transform method. Journal of Modern Optics, 2015, 62, 633-637. | 0.6 | 1 |
| 44 | On the comparison of different kernel functionals and neighborhood geometry for nonlocal means filtering. Multimedia Tools and Applications, 2018, 77, 1205-1235. | 2.6 | 1 |
| 45 | The 2D Continuous Wavelet Transform: Applications in Fringe Pattern Processing for Optical Measurement Techniques. , 0, , . | | 1 |
| 46 | Entropy estimation for robust image segmentation in presence of non Gaussian noise. Multimedia Tools and Applications, 2021, 80, 6991-7021. | 2.6 | 1 |
| 47 | Multichannel holograms with some applications in image processing. , 2006, , . | | 0 |
| 48 | An alternative differential method of femtosecond pump-probe examination of materials. Optics Express, 2011, 19, 11290. | 1.7 | 0 |
| 49 | Comparative analysis of directional filtering techniques in fringe patterns. Proceedings of SPIE, 2011, , . | 0.8 | 0 |
| 50 | Phase unwrapping fitting local planes to phase gradient. Proceedings of SPIE, 2012, , . | 0.8 | 0 |
| 51 | Efficient numerical analysis of optical imaging data: A comparative study. Optik, 2013, 124, 4685-4692. | 1.4 | 0 |
| 52 | Phase unwrapping using Chebyshev polynomials. , 2013, , . | | 0 |
| 53 | A 2D continuous wavelet transform method for InSAR phase-maps denoising. Proceedings of SPIE, 2013, , . | 0.8 | 0 |
| 54 | Abel transform inversion using Kalman filter. , 2013, , . | | 0 |

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|----|--|-----|-----------|
| 55 | Estimation of the temperature of a flame with asymmetric profile. , 2014, , . | | 0 |
| 56 | Phase unwrapping using a surface mesh with constraints. Proceedings of SPIE, 2014, , . | 0.8 | 0 |
| 57 | Birongram processing method for quantitative evaluation of optical focusing mirrors. Optics and Lasers in Engineering, 2019, 113, 47-54. | 2.0 | 0 |
| 58 | 3D shape measurement with temporal phase unwrapping and 1-D continuous wavelet transform. , 2021, , . | | 0 |