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List of Publications by Year in descending order

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64
papers

1,248
citations

394421

19
h-index

377865

34
g-index

64
all docs

64
docs citations

64
times ranked

1077
citing authors

#	ARTICLE	IF	CITATIONS
1	Automatic Image Registration Through Image Segmentation and SIFT. IEEE Transactions on Geoscience and Remote Sensing, 2011, 49, 2589-2600.	6.3	178
2	Linear and nonlinear fetal heart rate analysis of normal and acidemic fetuses in the minutes preceding delivery. Medical and Biological Engineering and Computing, 2006, 44, 847-855.	2.8	93
3	Measures for an Objective Evaluation of the Geometric Correction Process Quality. IEEE Geoscience and Remote Sensing Letters, 2009, 6, 292-296.	3.1	91
4	Linear and nonlinear analysis of heart rate patterns associated with fetal behavioral states in the antepartum period. Early Human Development, 2007, 83, 585-591.	1.8	79
5	HAIRIS: A Method for Automatic Image Registration Through Histogram-Based Image Segmentation. IEEE Transactions on Image Processing, 2011, 20, 776-789.	9.8	63
6	Internal versus external intrapartum foetal heart rate monitoring: the effect on linear and nonlinear parameters. Physiological Measurement, 2006, 27, 307-319.	2.1	61
7	QPhenoMetrics: An open source software application to assess vegetation phenology metrics. Computers and Electronics in Agriculture, 2018, 148, 82-94.	7.7	57
8	Linear and complex heart rate dynamics vary with sex in relation to fetal behavioural states. Early Human Development, 2008, 84, 433-439.	1.8	55
9	Monitoring fetal maturation objectives, techniques and indices of autonomic function. Physiological Measurement, 2017, 38, R61-R88.	2.1	45
10	Comparison of real beat-to-beat signals with commercially available 4ÂHz sampling on the evaluation of foetal heart rate variability. Medical and Biological Engineering and Computing, 2013, 51, 665-676.	2.8	42
11	Sex differences in linear and complex fetal heart rate dynamics of normal and acidemic fetuses in the minutes preceding delivery. Journal of Perinatal Medicine, 2009, 37, 168-76.	1.4	35
12	Fetal QRS detection and heart rate estimation: a wavelet-based approach. Physiological Measurement, 2014, 35, 1723-1735.	2.1	35
13	Identification of beach hydromorphological patterns/forms through image classification techniques applied to remotely sensed data. International Journal of Remote Sensing, 2011, 32, 7399-7422.	2.9	30
14	CHAIR: automatic image registration based on correlation and Hough transform. International Journal of Remote Sensing, 2012, 33, 7936-7968.	2.9	24
15	Gender-specific evolution of fetal heart rate variability throughout gestation: A study of 8823 cases. Early Human Development, 2017, 115, 38-45.	1.8	24
16	Gender-specific heart rate dynamics in severe intrauterine growth-restricted fetuses. Early Human Development, 2013, 89, 431-437.	1.8	23
17	Entropy and compression: two measures of complexity. Journal of Evaluation in Clinical Practice, 2013, 19, 1101-1106.	1.8	23
18	A Semi-Automatic Approach for the Extraction of Sandy Bodies (Sand Spits) From IKONOS-2 Data. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2012, 5, 634-642.	4.9	20

#	ARTICLE	IF	CITATIONS
19	Analysis of heart rate variability in a rat model of induced pulmonary hypertension. <i>Medical Engineering and Physics</i> , 2010, 32, 746-752.	1.7	19
20	Linear and nonlinear heart-rate analysis in a rat model of acute anoxia. <i>Physiological Measurement</i> , 2008, 29, 1133-1143.	2.1	18
21	Modeling of the Douro River Plume Size, Obtained Through Image Segmentation of MERIS Data. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2009, 6, 87-91.	3.1	17
22	Evolution of linear and nonlinear fetal heart rate indices throughout pregnancy in appropriate, small for gestational age and preterm fetuses: A cohort study. <i>Computer Methods and Programs in Biomedicine</i> , 2018, 153, 191-199.	4.7	17
23	Electrocardiography versus photoplethysmography in assessment of maternal heart rate variability during labor. <i>SpringerPlus</i> , 2016, 5, 1079.	1.2	15
24	Improvements in fetal heart rate analysis by the removal of maternal-fetal heart rate ambiguities. <i>BMC Pregnancy and Childbirth</i> , 2015, 15, 301.	2.4	14
25	Toward the improvement in fetal monitoring during labor with the inclusion of maternal heart rate analysis. <i>Medical and Biological Engineering and Computing</i> , 2016, 54, 691-699.	2.8	14
26	Sex differences in the fetal heart rate variability indices of twins. <i>Journal of Perinatal Medicine</i> , 2015, 43, 221-225.	1.4	11
27	Comparison of the effect of different sampling modes on computer analysis of cardiotocograms. <i>Computers in Biology and Medicine</i> , 2015, 64, 62-66.	7.0	11
28	Frequency Domain and Entropy Analysis of Fetal Heart Rate: Appealing Tools for Fetal Surveillance and Pharmacodynamic Assessment of Drugs. <i>Cardiovascular & Hematological Disorders Drug Targets</i> , 2008, 8, 91-98.	0.7	9
29	Deriving phenological metrics from NDVI through an open source tool developed in QGIS. <i>Proceedings of SPIE</i> , 2014, , .	0.8	9
30	Identification, Characterization and Analysis of the Douro River Plume From MERIS Data. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2012, 5, 1553-1563.	4.9	8
31	Simultaneous monitoring of maternal and fetal heart rate variability during labor in relation with fetal gender. <i>Developmental Psychobiology</i> , 2017, 59, 832-839.	1.6	8
32	A new global health outcome score after trauma (GHOST) for disability, cognitive impairment, and health-related quality of life: data from a prospective cross-sectional observational study. <i>Brain Injury</i> , 2019, 33, 922-931.	1.2	8
33	Entropy and Compression Capture Different Complexity Features: The Case of Fetal Heart Rate. <i>Entropy</i> , 2017, 19, 688.	2.2	7
34	Serological and molecular evidence of <i>Bartonella henselae</i> in cats from Luanda city, Angola. <i>Acta Tropica</i> , 2019, 195, 142-144.	2.0	7
35	Geospatial Analysis of Environmental Atmospheric Risk Factors in Neurodegenerative Diseases: A Systematic Review. <i>International Journal of Environmental Research and Public Health</i> , 2020, 17, 8414.	2.6	7
36	Can fetal heart rate variability obtained from cardiotocography provide the same diagnostic value like from electrophysiological interbeat intervals?. <i>Physiological Measurement</i> , 2021, 42, 015006.	2.1	6

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37	Comparison of different methods of heart rate entropy analysis during acute anoxia superimposed on a chronic rat model of pulmonary hypertension. <i>Medical Engineering and Physics</i> , 2013, 35, 559-568.	1.7	5
38	Fetal behavioral dynamics in cephalic versus breech presentations. <i>Developmental Psychobiology</i> , 2014, 56, 1595-1600.	1.6	5
39	Indoor Environments and Geographical Information Systems: A Systematic Literature Review. <i>SAGE Open</i> , 2021, 11, 215824402110503.	1.7	5
40	Automatic image registration based on correlation and Hough transform. , 2008, , .		4
41	Linear and Nonlinear Analysis of Fetal Heart Rate Variability. , 2016, , 119-132.		4
42	Linear and non-linear analysis of uterine contraction signals obtained with tocodynamometry in prediction of operative vaginal delivery. <i>Journal of Perinatal Medicine</i> , 2017, 45, 327-332.	1.4	4
43	Spatial Patterns in Hospital-Acquired Infections in Portugal (2014â€“2017). <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 4703.	2.6	4
44	Does the type of seizure influence heart rate variability changes?. <i>Epilepsy and Behavior</i> , 2022, 126, 108453.	1.7	4
45	Extraction of Estuarine/Coastal Environmental Bodies from Satellite Data through Image Segmentation Techniques. , 2011, , .		3
46	Coastal morphodynamic features/patterns analysis through a video-based system and image processing. , 2012, , .		3
47	Prenatal observation of heart rate sequences presenting entropic analogies with Sudden Infant Death Syndrome: Preliminary report. , 2013, , .		3
48	cTnl, BNP and CRP profiling after seizures in patients with drug-resistant epilepsy. <i>Seizure: the Journal of the British Epilepsy Association</i> , 2020, 80, 100-108.	2.0	3
49	Heart rate variability in patients with refractory epilepsy: The influence of generalized convulsive seizures. <i>Epilepsy Research</i> , 2021, 178, 106796.	1.6	3
50	Estimation of the Douro River plume dimension based on image segmentation of MERIS scenes. <i>Proceedings of SPIE</i> , 2008, , .	0.8	2
51	Beach Hydromorphological Analysis Through Remote Sensing. <i>Journal of Coastal Research</i> , 2011, 61, 44-51.	0.3	2
52	The effect of gender, gestational age and behavioral states on fetal heart rate variability. , 2014, , .		2
53	External Uterine Contractions Signal Analysis in Relation to Labor Progression and Dystocia. <i>IFMBE Proceedings</i> , 2014, , 555-558.	0.3	2
54	Forecasting Asthma Hospital Admissions from Remotely Sensed Environmental Data. , 2017, , .		2

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55	The use of decision trees in the classification of beach forms/patterns on IKONOS-2 data. Proceedings of SPIE, 2013, , .	0.8	1
56	A study on the quality of the vegetation index obtained from MODIS data. , 2015, , .		1
57	Spatio-temporal analysis of preterm birth in Portugal and its relation with environmental variables. , 2016, , .		1
58	Serological Evidence of <i>Rickettsia</i> Exposure among Patients with Unknown Fever Origin in Angola, 2016-2017. Interdisciplinary Perspectives on Infectious Diseases, 2020, 2020, 1-5.	1.4	1
59	Concerns about the contemporary labor curves and guidelines: Is it time to revisit the old ones?. European Journal of Obstetrics, Gynecology and Reproductive Biology, 2022, 270, 169-175.	1.1	1
60	Automatic image registration through the segmentation of images pre-processed by joint histogram analysis. , 2009, , .		0
61	Bathymetric estimation through principal components analysis using IKONOS-2 data. , 2010, , .		0
62	A first reference dataset for the evaluation of geometric correction methods under the scope of remote sensing applications. Proceedings of SPIE, 2011, , .	0.8	0
63	Forecasting the local risk for asthma hospitalizations from georeferenced environmental data – a pilot model. , 2017, , .		0
64	Measuring fetal heart rate and variability: Fetal cardiotocography versus electrocardiography. Developmental Psychobiology, 2022, 64, e22266.	1.6	0