

Kjersti Engan

List of Publications by Year in descending order

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Version: 2024-02-01

76
papers

3,550
citations

623188

14
h-index

329751

37
g-index

76
all docs

76
docs citations

76
times ranked

3308
citing authors

#	ARTICLE	IF	CITATIONS
1	Sparse solutions to linear inverse problems with multiple measurement vectors. IEEE Transactions on Signal Processing, 2005, 53, 2477-2488.	3.2	1,095
2	Dictionary Learning Algorithms for Sparse Representation. Neural Computation, 2003, 15, 349-396.	1.3	733
3	Recursive Least Squares Dictionary Learning Algorithm. IEEE Transactions on Signal Processing, 2010, 58, 2121-2130.	3.2	310
4	Multi-frame compression: theory and design. Signal Processing, 2000, 80, 2121-2140.	2.1	250
5	Subset selection in noise based on diversity measure minimization. IEEE Transactions on Signal Processing, 2003, 51, 760-770.	3.2	240
6	Family of iterative LS-based dictionary learning algorithms, ILS-DLA, for sparse signal representation. , 2007, 17, 32-49.		128
7	Image compression using learned dictionaries by RLS-DLA and compared with K-SVD. , 2011, , .		89
8	ECG-Based Classification of Resuscitation Cardiac Rhythms for Retrospective Data Analysis. IEEE Transactions on Biomedical Engineering, 2017, 64, 2411-2418.	2.5	63
9	Retinal Disease Screening Through Local Binary Patterns. IEEE Journal of Biomedical and Health Informatics, 2017, 21, 184-192.	3.9	57
10	Automatic Estimation of Coronary Blood Flow Velocity Step 1 for Developing a Tool to Diagnose Patients With Micro-Vascular Angina Pectoris. Frontiers in Cardiovascular Medicine, 2019, 6, 1.	1.1	48
11	Cardiac magnetic resonance image-based classification of the risk of arrhythmias in post-myocardial infarction patients. Artificial Intelligence in Medicine, 2015, 64, 205-215.	3.8	47
12	The Devil is in the Details: Whole Slide Image Acquisition and Processing for Artifacts Detection, Color Variation, and Data Augmentation: A Review. IEEE Access, 2022, 10, 58821-58844.	2.6	31
13	Classifying Dementia Using Local Binary Patterns from Different Regions in Magnetic Resonance Images. International Journal of Biomedical Imaging, 2015, 2015, 1-14.	3.0	29
14	Artificial intelligence in computational pathology “ challenges and future directions. , 2021, 119, 103196.		25
15	Probability mapping of scarred myocardium using texture and intensity features in CMR images. BioMedical Engineering OnLine, 2013, 12, 91.	1.3	23
16	Exploratory data analysis of image texture and statistical features on myocardium and infarction areas in cardiac magnetic resonance images. , 2010, 2010, 5728-31.		22
17	A Multiscale Approach for Whole-Slide Image Segmentation of five Tissue Classes in Urothelial Carcinoma Slides. Technology in Cancer Research and Treatment, 2020, 19, 153303382094678.	0.8	19
18	The heart rate of ventricular tachycardia following an old myocardial infarction is inversely related to the size of scarring. Europace, 2011, 13, 864-868.	0.7	18

#	ARTICLE	IF	CITATIONS
19	Learned dictionaries for sparse image representation: properties and results. , 2011, , .		17
20	Using local binary pattern to classify dementia in MRI. , 2012, , .		16
21	Classifying Alzheimer's disease, Lewy body dementia, and normal controls using 3D texture analysis in magnetic resonance images. Biomedical Signal Processing and Control, 2017, 33, 19-29.	3.5	15
22	Optimized signal expansions for sparse representation. IEEE Transactions on Signal Processing, 2001, 49, 1087-1096.	3.2	14
23	Watershed segmentation of detected masses in digital mammograms. , 2005, 2005, 3304-7.		13
24	Motion based detection of respiration rate in infants using video. , 2016, , .		12
25	Automatic cardiac rhythm interpretation during resuscitation. Resuscitation, 2016, 102, 44-50.	1.3	12
26	Noise robust and rotation invariant framework for texture analysis and classification. Applied Mathematics and Computation, 2018, 335, 124-132.	1.4	12
27	Invasive Cancerous Area Detection in Non-Muscle Invasive Bladder Cancer Whole Slide Images. , 2022, , .		12
28	Quantifying the effect of color processing on blood and damaged tissue detection in Whole Slide Images. , 2022, , .		11
29	Activity Recognition From Newborn Resuscitation Videos. IEEE Journal of Biomedical and Health Informatics, 2020, 24, 3258-3267.	3.9	10
30	Automatic classification of resuscitation activities on birth-asphyxiated newborns using acceleration and ECG signals. Biomedical Signal Processing and Control, 2017, 36, 20-26.	3.5	10
31	Segmentation of scarred and non-scarred myocardium in LG enhanced CMR images using intensity-based textural analysis. , 2011, 2011, 5698-701.		9
32	Prognostic prediction of histopathological images by local binary patterns and RUSBoost. , 2017, , .		9
33	Estimation of Missing Data in Fetal Heart Rate Signals Using Shift-Invariant Dictionary. , 2018, , .		9
34	Automatic Diagnostic Tool for Predicting Cancer Grade in Bladder Cancer Patients Using Deep Learning. IEEE Access, 2021, 9, 115813-115825.	2.6	9
35	Residual block Convolutional Auto Encoder in Content-Based Medical Image Retrieval. , 2022, , .		9
36	An automatic system for the comprehensive retrospective analysis of cardiac rhythms in resuscitation episodes. Resuscitation, 2018, 122, 6-12.	1.3	8

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37	Comparing a novel automatic 3D method for LGE-CMR quantification of scar size with established methods. International Journal of Cardiovascular Imaging, 2014, 30, 339-347.	0.7	7
38	Machine Learning Algorithms Versus Thresholding to Segment Ischemic Regions in Patients With Acute Ischemic Stroke. IEEE Journal of Biomedical and Health Informatics, 2022, 26, 660-672.	3.9	7
39	Segmentation of Scarred Myocardium in Cardiac Magnetic Resonance Images. ISRN Biomedical Imaging, 2013, 2013, 1-12.	0.9	6
40	Chest compression rate measurement from smartphone video. BioMedical Engineering OnLine, 2016, 15, 95.	1.3	6
41	Imposing shift-invariance using Flexible Structure Dictionary Learning (FSDL). , 2017, 69, 162-173.		6
42	Object Detection During Newborn Resuscitation Activities. IEEE Journal of Biomedical and Health Informatics, 2020, 24, 796-803.	3.9	6
43	Sparse Approximation by Matching Pursuit Using Shift-Invariant Dictionary. Lecture Notes in Computer Science, 2017, , 362-373.	1.0	6
44	Detection of circumscribed masses in mammograms using morphological segmentation. , 2005, , .		5
45	Real-Time Chest Compression Quality Measurements by Smartphone Camera. Journal of Healthcare Engineering, 2018, 2018, 1-12.	1.1	5
46	Automatic identification of stimulation activities during newborn resuscitation using ECG and accelerometer signals. Computer Methods and Programs in Biomedicine, 2020, 193, 105445.	2.6	5
47	Multiclass Tissue Classification of Whole-Slide Histological Images using Convolutional Neural Networks. , 2019, , .		5
48	Detection of diabetic retinopathy and age-related macular degeneration from fundus images through local binary patterns and random forests. , 2015, , .		4
49	Automatic Detection and Parameterization of Manual Bag-Mask Ventilation on Newborns. IEEE Journal of Biomedical and Health Informatics, 2017, 21, 527-538.	3.9	4
50	Fetal heart rate development during labour. BioMedical Engineering OnLine, 2021, 20, 26.	1.3	4
51	Exploring the Relationship Between Characteristics of Ventilation Performance and Response of Newborns During Resuscitation. Communications in Computer and Information Science, 2015, , 275-290.	0.4	4
52	Detection of Activities During Newborn Resuscitation Based on Short-Time Energy of Acceleration Signal. Lecture Notes in Computer Science, 2016, , 262-270.	1.0	4
53	Parameterized Extraction of Tiles in Multilevel Gigapixel Images. , 2021, , .		4
54	ECG compression using signal dependent frames and matching pursuit. , 0, , .		3

#	ARTICLE	IF	CITATIONS
55	Detecting Chest Compression Depth Using a Smartphone Camera and Motion Segmentation. Lecture Notes in Computer Science, 2017, , 53-64.	1.0	3
56	Nearest-manifold classification approach for cardiac arrest rhythm interpretation during resuscitation. , 2014, , .		2
57	The flexible signature dictionary. , 2015, , .		2
58	Automatic detection of microvascular obstruction in patients with myocardial infarction. , 2015, , .		2
59	Retinal vessel inpainting using recursive least square dictionary learning algorithm. , 2015, , .		2
60	High Frequency Noise Detection and Handling in ECG Signals. , 2018, , .		2
61	Invariant Mean Electrical Axis in Electrocardiogram. , 0, , .		2
62	Compression of digital mammograms with region-of-interest coding evaluated on a CAD system. , 2005, , .		1
63	Feature extraction in digital mammograms based on optimal and morphological filtering. , 2005, 5747, 1093.		1
64	Denoising of Images Using Designed Signal Dependent Frames and Matching Pursuit. , 0, , .		1
65	Dense motion field estimation using spatial filtering and quasi eigenfunction approximations. , 2005, , .		1
66	Texture classification of scarred and non-scarred myocardium in cardiac MRI using learned dictionaries. , 2011, , .		1
67	Robust real-time chest compression rate detection from smartphone video. , 2017, , .		1
68	Baseline Wander Removal and Isoelectric Correction in Electrocardiograms Using Clustering. , 2019, , .		1
69	State transition modeling of complex monitored health data. Journal of Applied Statistics, 2020, 47, 1915-1935.	0.6	1
70	Energy Minimization by α -Erosion for Supervised Texture Segmentation. Lecture Notes in Computer Science, 2014, , 207-214.	1.0	1
71	Towards using Thermal Cameras in Birth Detection. , 2022, , .		1
72	The relationship between transmuralty of ischemic scars and the heart rate of ventricular tachycardia. Scandinavian Cardiovascular Journal, 2015, 49, 241-248.	0.4	0

#	ARTICLE	IF	CITATIONS
73	The Localization and Characterization of Ischemic Scars in relation to the Infarct Related Coronary Artery Assessed by Cardiac Magnetic Resonance and a Novel Automatic Postprocessing Method. Cardiology Research and Practice, 2015, 2015, 1-9.	0.5	0
74	Optic cup characterization through sparse representation and dictionary learning. , 2016, , .		0
75	Kinect Modelling of Chest Compressions - A Feasibility Study for Chest Compression Depth Measurement Using Digital Strategies. , 2018, , .		0
76	Validation of Baseline Wander Removal and Isoelectric Correction in Electrocardiograms Using Clustering. , 2019, , .		0