

Corneliu Rusu

List of Publications by Year in descending order

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Version: 2024-02-01

94
papers

467
citations

1307594

7
h-index

1125743

13
g-index

97
all docs

97
docs citations

97
times ranked

305
citing authors

#	ARTICLE	IF	CITATIONS
1	Sound Classification Algorithms for Indoor Human Activities. , 2021, , .		3
2	Sound Classification by the TIAGo Service Robot for Healthcare Applications. , 2021, , .		1
3	Acoustic monitoring of outdoor areas by a sensor consisting of four microphones. , 2021, , .		0
4	A Highly Scalable Method for Extractive Text Summarization Using Convex Optimization. Symmetry, 2021, 13, 1824.	2.2	6
5	Audio Database for TIAGo Service Robot. Carpathian Journal of Electronic and Computer Engineering, 2021, 14, 1-5.	0.9	3
6	Word Embeddings for Romanian Language and Their Use for Synonyms Detection. , 2021, , .		0
7	Results on the MFCC extraction for improving audio capabilities of TIAGo service robot. , 2021, , .		1
8	On the use of positive definite symmetric kernels for summary extraction. , 2020, , .		2
9	Conformal transformation of the metric for k-nearest neighbors classification. , 2020, , .		0
10	About the positivity of trigonometric polynomials with positive samples. , 2020, , .		0
11	Integrating Service Robots into Everyday Life Based on Audio Capabilities. , 2020, , .		1
12	Input Magnitude Data Setting in Error-Reduction Algorithm for One-Dimensional Discrete Phase Retrieval Problem. , 2019, , .		0
13	Extending Assisted Audio Capabilities of TIAGo Service Robot. , 2019, , .		8
14	Minimum Length Solution for One-Dimensional Discrete Phase Retrieval Problem. , 2018, , .		3
15	From bulky analog active filters to digital filters. , 2018, , .		3
16	Adding audio capabilities to TIAGo service robot. , 2018, , .		13
17	Automatic Text Summarization by Mean-absolute Constrained Convex Optimization. , 2018, , .		3
18	Symbolic Analysis of an Analog Active Filter as Path for Conversion to Digital Filter. Carpathian Journal of Electronic and Computer Engineering, 2018, 11, 8-12.	0.9	0

#	ARTICLE	IF	CITATIONS
19	On the existence of the solution for one-dimensional discrete phase retrieval problem. Signal, Image and Video Processing, 2017, 11, 195-202.	2.7	8
20	Audio signal classification using Linear Predictive Coding and Random Forests. , 2017, , .		11
21	Several classifiers for intruder detection applications. , 2017, , .		1
22	Extended Kalman Filter for state-of-charge estimation in electric vehicles battery packs. , 2017, , .		10
23	On the optimization of SVM kernel parameters for improving audio classification accuracy. , 2017, , .		14
24	Choosing an accurate number of mel frequency cepstral coefficients for audio classification purpose. , 2017, , .		7
25	Acoustic classification using linear predictive coding for wildlife detection systems. , 2017, , .		5
26	Recent developments in acoustical signal classification for monitoring. , 2017, , .		7
27	Convergence analysis of error-reduction algorithm for solving of the extended one-dimensional discrete phase retrieval problem. , 2017, , .		3
28	On some properties of positive trigonometric polynomials related to one-dimensional discrete phase retrieval problem. , 2016, , .		3
29	Positive trigonometric polynomials and one-dimensional discrete phase retrieval problem. , 2016, , .		2
30	The extended one-dimensional discrete phase retrieval problem. , 2015, , .		2
31	Spectrograms, sparsograms and spectral signatures for wildlife intruder detection. , 2015, , .		4
32	Quantization effects on audio signals for detecting intruders in wild areas using TESPAS S-matrix and artificial neural networks. , 2015, , .		1
33	Alarming events detection based on audio signals recognition. , 2015, , .		4
34	About quantization of audio signals for wildlife intruder detection systems. , 2015, , .		4
35	The Quantization Effect on Audio Signals for Wildlife Intruder Detection Systems. Lecture Notes in Computer Science, 2015, , 655-662.	1.3	0
36	The Extended 1-D (One-Dimensional) Discrete Phase Retrieval Problem. Lecture Notes in Computer Science, 2015, , 640-647.	1.3	2

#	ARTICLE	IF	CITATIONS
37	A sparsogram coding procedure for wildlife intruder detection. , 2014, , .		3
38	Application of Virtual Instrumentation for Transmitting and Processing ECG Signals. IFMBE Proceedings, 2014, , 215-218.	0.3	3
39	Method to convert analog filters to digital filters. , 2013, , .		2
40	On the design of an acoustic based wildlife intruder detection system. , 2013, , .		4
41	On some performances of the exponentiated convex variable step-size (ECVSS) algorithm. , 2013, , .		1
42	A new set of features for a bimodal system based on on-line signature and speech. , 2013, 23, 928-940.		14
43	Speckle noise removal in ultrasound medical imaging using envelope based time domain deconvolution. , 2013, , .		1
44	Blind Deconvolution for Ultrasound Sequences Using a Noninverse Greedy Algorithm. International Journal of Biomedical Imaging, 2013, 2013, 1-9.	3.9	2
45	A sparsogram implementation for wildlife intruder detection. , 2013, , .		3
46	Cost function adaptation revisited. , 2012, , .		0
47	Into the ultrasound deconvolution using CLEAN algorithm - statistical analysis of scatters detection. , 2012, , .		1
48	Using a MEMS gyroscope to measure the Earth's rotation for gyrocompassing applications. Measurement Science and Technology, 2012, 23, 025005.	2.6	34
49	Audio based solutions for detecting intruders in wild areas. Signal Processing, 2012, 92, 829-840.	3.7	31
50	Hilbert transform by divide-and-conquer piecewise linear approximation. , 2011, , .		0
51	Improved indoor navigation system based on MEMS technology. , 2011, , .		3
52	Retrieval of iris dominant color using intra-palette color merging. , 2011, , .		0
53	A study of the effect of emotional state upon text-independent speaker identification. , 2011, , .		20
54	Visible-infrared fusion in the frame of an obstacle recognition system. , 2010, , .		8

#	ARTICLE	IF	CITATIONS
55	The exponentiated convex variable step-size (ECVSS) algorithm. Signal Processing, 2010, 90, 2784-2791.	3.7	8
56	A modified TESPAP algorithm for wildlife sound classification. , 2010, , .		10
57	An Improved Exponentiated stochastic gradient algorithm. , 2010, , .		3
58	About classifying sounds in protected environments. , 2010, , .		7
59	Wildlife intruder detection using sounds captured by acoustic sensors. , 2010, , .		5
60	On the energy concentration property for zero-phase sequences. , 2010, , .		0
61	A study of the external factors that affect the measurement data of a MEMS gyroscope sensor "â€” Towards an inertial navigation system. , 2010, , .		2
62	On-line signature recognition approach based on wavelets and Support Vector Machines. , 2010, , .		9
63	A SPICE method for designing digital filters from analog filters. , 2010, , .		2
64	Vehicle sound classification. Application and low pass filtering influence. , 2009, , .		9
65	Divide-and-conquer piecewise linear fitting of gain for phase approximation. , 2009, , .		2
66	Converting a set into a minimum-phase sequence. , 2009, , .		0
67	Phase approximation by divide-and-conquer piecewise linear fitting of gain. , 2009, , .		2
68	Minimum-phase parts of zero-phase sequences. Signal Processing, 2009, 89, 1032-1037.	3.7	2
69	Supercapacitor modelling using experimental measurements. , 2009, , .		9
70	Location systems with sensors - Overview and new approach. , 2009, , .		0
71	SPICE Simulation of Analog Filters: A Method for Designing Digital Filters. Lecture Notes in Computer Science, 2009, , 534-539.	1.3	5
72	A hierarchical implementation of medical data transmission. , 2008, , .		2

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73	Gain-phase relationships evaluation by Gaussian quadrature. , 2008, , .		3
74	UV Solar radiation monitoring system based on the PMA1111 (UVA) and PMA1102 (UVB) sensors. , 2007, , .		0
75	LOW COST MONITORING ARCHITECTURE FOR VIBRATION BASED SYSTEMS HEALTH MANAGEMENT. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2007, 40, 272-275.	0.4	0
76	Sensors for Obstacle Detection - A Survey. , 2007, , .		40
77	Emphasis of Geomorphometric Features using Wavelet Domain Markov Trees. , 2006, , .		0
78	A Note on Argument Principle. IEEE Signal Processing Letters, 2004, 11, 817-820.	3.6	2
79	Classical geometrical approach to circle fittingâ€”review and new developments. Journal of Electronic Imaging, 2003, 12, 179.	0.9	27
80	Deriving Phase from Logarithmic Gain Derivatives. Circuits, Systems, and Signal Processing, 2002, 21, 243-261.	2.0	3
81	1-D direct phase retrieval. Signal Processing, 2002, 82, 1059-1066.	3.7	4
82	Adaptive data echo cancellation using cost function adaptation. Signal Processing, 2000, 80, 2457-2473.	3.7	12
83	Cost function adaptation: a stochastic gradient algorithm for data echo cancellation. IET Computer Vision, 2000, 147, 516.	1.3	1
84	The convex variable step-size (CVSS) algorithm. IEEE Signal Processing Letters, 2000, 7, 256-258.	3.6	9
85	A theoretical analysis of the median LMF adaptive algorithm. , 0, , .		0
86	1-D non-minimum phase retrieval by gain differences. , 0, , .		5
87	Neural network application for primary local recognition and nonlinear adaptive filtering of images. , 0, , .		6
88	A noise constrained VS-LMS algorithm. , 0, , .		5
89	Synthesis of 3D surfaces using the wavelet transform. , 0, , .		0
90	Singing voice features by time-frequency representations. , 0, , .		2

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91	3D surfaces synthesis using the wavelet transform. , 0, , .		0
92	Elevation contours extraction from a color-coded relief scanned map. , 0, , .		2
93	Argument principle and discrete fourier transform. , 0, , .		0
94	Analog Phase Samples Approximation from Gain Samples by Discrete Hilbert Transform. Circuits, Systems, and Signal Processing, 0, , 1.	2.0	0