

# 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	Sensors for Obstacle Detection - A Survey. , 2007, , .		40
2	Using a MEMS gyroscope to measure the Earth's rotation for gyrocompassing applications. Measurement Science and Technology, 2012, 23, 025005.	2.6	34
3	Audio based solutions for detecting intruders in wild areas. Signal Processing, 2012, 92, 829-840.	3.7	31
4	Classical geometrical approach to circle fitting – review and new developments. Journal of Electronic Imaging, 2003, 12, 179.	0.9	27
5	A study of the effect of emotional state upon text-independent speaker identification. , 2011, , .		20
6	A new set of features for a bimodal system based on on-line signature and speech. , 2013, 23, 928-940.		14
7	On the optimization of SVM kernel parameters for improving audio classification accuracy. , 2017, , .		14
8	Adding audio capabilities to TIAGo service robot. , 2018, , .		13
9	Adaptive data echo cancellation using cost function adaptation. Signal Processing, 2000, 80, 2457-2473.	3.7	12
10	Audio signal classification using Linear Predictive Coding and Random Forests. , 2017, , .		11
11	A modified TESPAP algorithm for wildlife sound classification. , 2010, , .		10
12	Extended Kalman Filter for state-of-charge estimation in electric vehicles battery packs. , 2017, , .		10
13	The convex variable step-size (CVSS) algorithm. IEEE Signal Processing Letters, 2000, 7, 256-258.	3.6	9
14	Vehicle sound classification. Application and low pass filtering influence. , 2009, , .		9
15	Supercapacitor modelling using experimental measurements. , 2009, , .		9
16	On-line signature recognition approach based on wavelets and Support Vector Machines. , 2010, , .		9
17	Visible-infrared fusion in the frame of an obstacle recognition system. , 2010, , .		8
18	The exponentiated convex variable step-size (ECVSS) algorithm. Signal Processing, 2010, 90, 2784-2791.	3.7	8

#	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	Extending Assisted Audio Capabilities of TIAGo Service Robot. , 2019, , .		8
21	About classifying sounds in protected environments. , 2010, , .		7
22	Choosing an accurate number of mel frequency cepstral coefficients for audio classification purpose. , 2017, , .		7
23	Recent developments in acoustical signal classification for monitoring. , 2017, , .		7
24	Neural network application for primary local recognition and nonlinear adaptive filtering of images. , 0, , .		6
25	A Highly Scalable Method for Extractive Text Summarization Using Convex Optimization. Symmetry, 2021, 13, 1824.	2.2	6
26	1-D non-minimum phase retrieval by gain differences. , 0, , .		5
27	A noise constrained VS-LMS algorithm. , 0, , .		5
28	Wildlife intruder detection using sounds captured by acoustic sensors. , 2010, , .		5
29	Acoustic classification using linear predictive coding for wildlife detection systems. , 2017, , .		5
30	SPICE Simulation of Analog Filters: A Method for Designing Digital Filters. Lecture Notes in Computer Science, 2009, , 534-539.	1.3	5
31	1-D direct phase retrieval. Signal Processing, 2002, 82, 1059-1066.	3.7	4
32	On the design of an acoustic based wildlife intruder detection system. , 2013, , .		4
33	Spectrograms, sparsograms and spectral signatures for wildlife intruder detection. , 2015, , .		4
34	Alarming events detection based on audio signals recognition. , 2015, , .		4
35	About quantization of audio signals for wildlife intruder detection systems. , 2015, , .		4
36	Deriving Phase from Logarithmic Gain Derivatives. Circuits, Systems, and Signal Processing, 2002, 21, 243-261.	2.0	3

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37	Gain-phase relationships evaluation by Gaussian quadrature. , 2008, , .		3
38	An Improved Exponentiated stochastic gradient algorithm. , 2010, , .		3
39	Improved indoor navigation system based on MEMS technology. , 2011, , .		3
40	A sparsogram implementation for wildlife intruder detection. , 2013, , .		3
41	A sparsogram coding procedure for wildlife intruder detection. , 2014, , .		3
42	On some properties of positive trigonometric polynomials related to one-dimensional discrete phase retrieval problem. , 2016, , .		3
43	Convergence analysis of error-reduction algorithm for solving of the extended one-dimensional discrete phase retrieval problem. , 2017, , .		3
44	Minimum Length Solution for One-Dimensional Discrete Phase Retrieval Problem. , 2018, , .		3
45	From bulky analog active filters to digital filters. , 2018, , .		3
46	Automatic Text Summarization by Mean-absolute Constrained Convex Optimization. , 2018, , .		3
47	Sound Classification Algorithms for Indoor Human Activities. , 2021, , .		3
48	Audio Database for TIAGo Service Robot. Carpathian Journal of Electronic and Computer Engineering, 2021, 14, 1-5.	0.9	3
49	Application of Virtual Instrumentation for Transmitting and Processing ECG Signals. IFMBE Proceedings, 2014, , 215-218.	0.3	3
50	Singing voice features by time-frequency representations. , 0, , .		2
51	Elevation contours extraction from a color-coded relief scanned map. , 0, , .		2
52	A Note on Argument Principle. IEEE Signal Processing Letters, 2004, 11, 817-820.	3.6	2
53	A hierarchical implementation of medical data transmission. , 2008, , .		2
54	Divide-and-conquer piecewise linear fitting of gain for phase approximation. , 2009, , .		2

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55	Phase approximation by divide-and-conquer piecewise linear fitting of gain. , 2009, , .		2
56	Minimum-phase parts of zero-phase sequences. Signal Processing, 2009, 89, 1032-1037.	3.7	2
57	A study of the external factors that affect the measurement data of a MEMS gyroscope sensor "Towards an inertial navigation system. , 2010, , .		2
58	A SPICE method for designing digital filters from analog filters. , 2010, , .		2
59	Method to convert analog filters to digital filters. , 2013, , .		2
60	Blind Deconvolution for Ultrasound Sequences Using a Noninverse Greedy Algorithm. International Journal of Biomedical Imaging, 2013, 2013, 1-9.	3.9	2
61	The extended one-dimensional discrete phase retrieval problem. , 2015, , .		2
62	Positive trigonometric polynomials and one-dimensional discrete phase retrieval problem. , 2016, , .		2
63	On the use of positive definite symmetric kernels for summary extraction. , 2020, , .		2
64	The Extended 1-D (One-Dimensional) Discrete Phase Retrieval Problem. Lecture Notes in Computer Science, 2015, , 640-647.	1.3	2
65	Cost function adaptation: a stochastic gradient algorithm for data echo cancellation. IET Computer Vision, 2000, 147, 516.	1.3	1
66	Into the ultrasound deconvolution using CLEAN algorithm - statistical analysis of scatters detection. , 2012, , .		1
67	On some performances of the exponentiated convex variable step-size (ECVSS) algorithm. , 2013, , .		1
68	Speckle noise removal in ultrasound medical imaging using envelope based time domain deconvolution. , 2013, , .		1
69	Quantization effects on audio signals for detecting intruders in wild areas using TESPAS S-matrix and artificial neural networks. , 2015, , .		1
70	Several classifiers for intruder detection applications. , 2017, , .		1
71	Sound Classification by the TIAGo Service Robot for Healthcare Applications. , 2021, , .		1
72	Results on the MFCC extraction for improving audio capabilities of TIAGo service robot. , 2021, , .		1

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73	Integrating Service Robots into Everyday Life Based on Audio Capabilities. , 2020, , .		1
74	A theoretical analysis of the median LMF adaptive algorithm. , 0, , .		0
75	Synthesis of 3D surfaces using the wavelet transform. , 0, , .		0
76	3D surfaces synthesis using the wavelet transform. , 0, , .		0
77	Argument principle and discrete fourier transform. , 0, , .		0
78	Emphasis of Geomorphometric Features using Wavelet Domain Markov Trees. , 2006, , .		0
79	UV Solar radiation monitoring system based on the PMA1111 (UVA) and PMA1102 (UVB) sensors. , 2007, , .		0
80	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
81	Converting a set into a minimum-phase sequence. , 2009, , .		0
82	Location systems with sensors - Overview and new approach. , 2009, , .		0
83	On the energy concentration property for zero-phase sequences. , 2010, , .		0
84	Hilbert transform by divide-and-conquer piecewise linear approximation. , 2011, , .		0
85	Retrieval of iris dominant color using intra-palette color merging. , 2011, , .		0
86	Cost function adaptation revisited. , 2012, , .		0
87	Input Magnitude Data Setting in Error-Reduction Algorithm for One-Dimensional Discrete Phase Retrieval Problem. , 2019, , .		0
88	Conformal transformation of the metric for k-nearest neighbors classification. , 2020, , .		0
89	Acoustic monitoring of outdoor areas by a sensor consisting of four microphones. , 2021, , .		0
90	The Quantization Effect on Audio Signals for Wildlife Intruder Detection Systems. Lecture Notes in Computer Science, 2015, , 655-662.	1.3	0

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91	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
92	Word Embeddings for Romanian Language and Their Use for Synonyms Detection. , 2021, , .		0
93	About the positivity of trigonometric polynomials with positive samples. , 2020, , .		0
94	Analog Phase Samples Approximation from Gain Samples by Discrete Hilbert Transform. Circuits, Systems, and Signal Processing, 0, , 1.	2.0	0