

Gaetano Giunta

List of Publications by Year in descending order

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135
papers

1,573
citations

394421

19
h-index

434195

31
g-index

137
all docs

137
docs citations

137
times ranked

1481
citing authors

#	ARTICLE	IF	CITATIONS
1	A Novel Approach to Indoor RSSI Localization by Automatic Calibration of the Wireless Propagation Model. , 2009, , .		104
2	Blind quality assessment system for multimedia communications using tracing watermarking. IEEE Transactions on Signal Processing, 2003, 51, 996-1002.	5.3	74
3	Knowledge-Based Adaptive Detection: Joint Exploitation of Clutter and System Symmetry Properties. IEEE Signal Processing Letters, 2016, 23, 1489-1493.	3.6	56
4	Adaptive Detection of Point-Like Targets in Partially Homogeneous Clutter With Symmetric Spectrum. IEEE Transactions on Aerospace and Electronic Systems, 2017, 53, 2110-2119.	4.7	50
5	Dynamic LOS/NLOS Statistical Discrimination of Wireless Mobile Channels. IEEE Vehicular Technology Conference, 2007, , .	0.4	49
6	Reliability of signal processing technique for pavement damages detection and classification using ground penetrating radar. IEEE Sensors Journal, 2005, 5, 471-480.	4.7	47
7	Haralick's texture features for the prediction of response to therapy in colorectal cancer: a preliminary study. Radiologia Medica, 2018, 123, 161-167.	7.7	38
8	Virtual Calibration for RSSI-Based Indoor Localization with IEEE 802.15.4. , 2009, , .		36
9	A Fast Unambiguous Acquisition Algorithm for BOC-Modulated Signals. IEEE Transactions on Vehicular Technology, 2013, 62, 1350-1355.	6.3	34
10	A maximum entropy method to assess the predictability of financial and commodity prices. , 2015, 46, 19-31.		34
11	A self-synchronizing method for asynchronous code acquisition in band-limited spread spectrum communications. IEEE Transactions on Communications, 2009, 57, 2410-2419.	7.8	31
12	Subpixel SAR Image Registration Through Parabolic Interpolation of the 2-D Cross Correlation. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 4132-4144.	6.3	29
13	Knowledge-aided adaptive detection in partially homogeneous clutter: Joint exploitation of persymmetry and symmetric spectrum. , 2017, 67, 131-138.		28
14	Adaptive Radar Detection in the Presence of Multiple Alternative Hypotheses Using Kullback-Leibler Information Criterion-Part I: Detector Designs. IEEE Transactions on Signal Processing, 2021, 69, 3730-3741.	5.3	27
15	Reliability of Radar Inspection for Detection of Pavement Damage. Road Materials and Pavement Design, 2004, 5, 93-110.	4.0	26
16	Fine estimators of two-dimensional parameters and application to spatial shift estimation. IEEE Transactions on Signal Processing, 1999, 47, 3201-3207.	5.3	25
17	Automated Segmentation of Colorectal Tumor in 3D MRI Using 3D Multiscale Densely Connected Convolutional Neural Network. Journal of Healthcare Engineering, 2019, 2019, 1-11.	1.9	25
18	Applying telecommunications methodology to road safety for rear-end collision avoidance. Transportation Research Part C: Emerging Technologies, 2015, 50, 150-159.	7.6	24

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19	On the predictability of energy commodity markets by an entropy-based computational method. Energy Economics, 2016, 54, 302-312.	12.1	24
20	Real-time video transmission in vehicular networks. , 2007, , .		23
21	Effective Monitoring of Freeloading User in the Presence of Active User in Cognitive Radio Networks. IEEE Transactions on Vehicular Technology, 2014, 63, 2443-2450.	6.3	22
22	Fast estimators of time delay and Doppler stretch based on discrete-time methods. IEEE Transactions on Signal Processing, 1998, 46, 1785-1797.	5.3	21
23	A Unified Approach for Time-Delay Estimators in Spread Spectrum Communications. IEEE Transactions on Communications, 2011, 59, 3421-3429.	7.8	21
24	Adaptive Radar Detection in the Presence of Multiple Alternative Hypotheses Using Kullback-Leibler Information Criterion-Part II: Applications. IEEE Transactions on Signal Processing, 2021, 69, 3742-3754.	5.3	21
25	Enhanced TOA-based indoor-positioning algorithm for mobile LTE cellular systems. , 2011, , .		19
26	A Fast Time-Delay Estimator of PN Signals. IEEE Transactions on Communications, 2011, 59, 2057-2062.	7.8	19
27	Constrained optimization of noncoherent serial acquisition of spread-spectrum code by exploiting the generalized Q-functions. IEEE Transactions on Vehicular Technology, 2003, 52, 1378-1385.	6.3	18
28	Comparison of Initialization Techniques for the Accurate Extraction of Muscle Synergies from Myoelectric Signals via Nonnegative Matrix Factorization. Applied Bionics and Biomechanics, 2018, 2018, 1-10.	1.1	18
29	Generalized Q-functions for application to noncoherent serial detection of spread-spectrum communication signals. IEEE Transactions on Signal Processing, 2000, 48, 1506-1513.	5.3	17
30	A Blind Equalization Algorithm Based on Minimization of Normalized Variance for DS/CDMA Communications. IEEE Transactions on Vehicular Technology, 2008, 57, 3453-3461.	6.3	17
31	Performance Improvements of OFDM Signals Spectrum Sensing in Cognitive Radio. , 2012, , .		17
32	Detection of hidden users in cognitive radio networks. , 2013, , .		17
33	Estimation of Rician K-Factor in the Presence of Nakagami- m Shadowing for the LoS Component. IEEE Wireless Communications Letters, 2018, 7, 550-553.	5.0	17
34	A New Test for Initial Code Acquisition of Correlated Cells. IEEE Transactions on Vehicular Technology, 2013, 62, 2349-2358.	6.3	16
35	Bandpass nonlinear systems identification by higher order cross correlation. IEEE Transactions on Signal Processing, 1991, 39, 2092-2095.	5.3	15
36	A Track-Before-Detect Strategy Based on Sparse Data Processing for Air Surveillance Radar Applications. Remote Sensing, 2021, 13, 662.	4.0	15

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37	Haralick's Texture Analysis Applied to Colorectal T2-Weighted MRI: A Preliminary Study of Significance for Cancer Evolution. , 2017, , .		14
38	Estimation of global motion parameters by complex linear regression. IEEE Transactions on Image Processing, 1999, 8, 1652-1657.	9.8	13
39	Spread-Spectrum Code Acquisition in the Presence of Cell Correlation. IEEE Transactions on Communications, 2007, 55, 257-261.	7.8	12
40	Accurate Delay Estimation for Multisensor Passive Locating Systems Exploiting the Cross-Correlation Between Signals Cross-Correlations. IEEE Transactions on Aerospace and Electronic Systems, 2022, 58, 2568-2576.	4.7	12
41	DOA Refinement Through Complex Parabolic Interpolation of a Sparse Recovered Signal. IEEE Signal Processing Letters, 2021, 28, 274-278.	3.6	12
42	Image sequence coding using oriented edges. Signal Processing: Image Communication, 1990, 2, 429-440.	3.2	11
43	Tracing watermarking for multimedia communication quality assessment. , 0, , .		11
44	QoS assessment of 3G video-phone calls by tracing watermarking exploiting the new colour space $\tilde{Y}ST\hat{\epsilon}^{\text{TM}}$. IET Communications, 2007, 1, 696.	2.2	11
45	Automatic Blind Modulation Recognition of Analog and Digital Signals in Cognitive Radios. , 2016, , .		11
46	A Theoretical Analysis of Asymptotical Performance of Cooperative Spectrum Sensing in the Presence of Malicious Users. IEEE Wireless Communications Letters, 2018, 7, 380-383.	5.0	11
47	A "rayleigh-ness" test for DS/SS code acquisition. IEEE Transactions on Communications, 2003, 51, 1492-1501.	7.8	10
48	Phase-Only Space-Time Adaptive Processing. IEEE Access, 2021, 9, 147250-147263.	4.2	10
49	A Spectrum Sensing Algorithm for Constant Modulus Primary Users Signals. IEEE Communications Letters, 2016, 20, 400-403.	4.1	9
50	Parameter Estimation of Fluctuating Two-Ray Model for Next Generation Mobile Communications. IEEE Transactions on Vehicular Technology, 2020, 69, 8684-8697.	6.3	9
51	Cognitive Satellite Communications Spectrum Sensing Based on Higher Order Moments. IEEE Communications Letters, 2021, 25, 574-578.	4.1	9
52	SAR Image Registration in the Presence of Rotation and Translation: A Constrained Least Squares Approach. IEEE Geoscience and Remote Sensing Letters, 2021, 18, 1595-1599.	3.1	9
53	A new color space domain for digital watermarking in multimedia applications. , 2005, , .		8
54	Mobile Application Security for Video Streaming Authentication and Data Integrity Combining Digital Signature and Watermarking Techniques. IEEE Vehicular Technology Conference, 2007, , .	0.4	8

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55	Performance improvements of reputation-based cooperative spectrum sensing. , 2016, , .		8
56	Initial Code Synchronization of W-CDMA Mobile Systems Exploiting Local Phase Coherence and Pisarenko Estimation. IEEE Transactions on Communications, 2005, 53, 48-52.	7.8	6
57	A Bayesian Business Model for Video-Call Billing for End-to-End QoS Provision. IEEE Transactions on Vehicular Technology, 2009, 58, 836-842.	6.3	6
58	Analysis and monitoring of hidden TCP traffic based on an open-source covert timing channel. , 2015, , .		6
59	Unsupervised Sparse Unmixing of Atmospheric Trace Gases From Hyperspectral Satellite Data. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	3.1	6
60	On efficient code acquisition of optical orthogonal codes in optical CDMA systems. IEEE Transactions on Communications, 2010, 58, 438-441.	7.8	5
61	A signal processing algorithm for multi-constant modulus equalization. , 2013, , .		5
62	Automatic segmentation of colorectal cancer in 3D MRI by combining deep learning and 3D level-set algorithm-a preliminary study. , 2018, , .		5
63	Rectal cancer response to neoadjuvant chemoradiotherapy evaluated with MRI: Development and validation of a classification algorithm. European Journal of Radiology, 2022, 147, 110146.	2.6	5
64	SAR Coregistration by Robust Selection of Extended Targets and Iterative Outlier Cancellation. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	3.1	5
65	Neural correlation based on the IPFM model. IEEE Transactions on Systems, Man, and Cybernetics, 1990, 20, 262-268.	0.9	4
66	Bussgang Gaussianity test for stationary series. , 0, , .		4
67	Performance Benefits of Fractional Sampling in the Initial Code Synchronization for the Wireless Access of 3G Mobile Communications. , 0, , .		4
68	Cooperative spectrum sensing for positioning in cognitive radios. , 2014, , .		4
69	A novel method for securing critical infrastructures by detecting hidden flows of data. , 2015, , .		4
70	Performance improvements of cooperative spectrum sensing in cognitive radio networks with correlated cognitive users. , 2015, , .		4
71	A Novel PU Sensing Algorithm for Constant Energy Signals. IEEE Transactions on Vehicular Technology, 2018, 67, 827-831.	6.3	4
72	A Sparse Learning Approach to the Design of Radar Tunable Architectures With Enhanced Selectivity Properties. IEEE Transactions on Aerospace and Electronic Systems, 2020, 56, 3840-3853.	4.7	4

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73	Segmenting MR Images by Level-Set Algorithms for Perspective Colorectal Cancer Diagnosis. Lecture Notes in Computational Vision and Biomechanics, 2018, , 396-406.	0.5	4
74	Digital algorithm for maximisation of symmetric ambiguity functions and application to signal time-delay estimation. IET Computer Vision, 1999, 146, 313.	1.3	3
75	Ground penetrating radar signal processing for road monitoring and damage detection. , 2003, , .		3
76	A Business Model founded on Bayes' Decision Procedure for Video-Call Billing from the Estimated End-to-End QoS. , 2007, , .		3
77	Robust and efficient authentication of video stream broadcasting. ACM Transactions on Information and System Security, 2011, 14, 1-25.	4.5	3
78	Empirical Case Study of Binary Options Trading. International Journal of Interdisciplinary Telecommunications and Networking, 2012, 4, 54-63.	0.3	3
79	A software radio implementation for spectrum hole sensing in cognitive mobile networks. , 2013, , .		3
80	Quality of service assessment in new generation wireless video communications. Computer Engineering Series, 2004, , .	0.1	3
81	Fractional Sampling Improves Performance of UMTS Code Acquisition. Engineering, 2009, 01, 1-6.	0.8	3
82	A note on the computational complexity of high correlation estimators. IEEE Transactions on Signal Processing, 1991, 39, 485-486.	5.3	2
83	End-to-End QoS Provision and Control in Wireless Communication Systems by Means of Digital Watermarking Signal Processing. , 2006, , .		2
84	Embedding Source Signature in Multicast Wireless Video Streams. , 2007, , .		2
85	All-Pass Prefiltering in Pre-Post-Rake Schemes for Spread-Spectrum Communications. IEEE Transactions on Signal Processing, 2007, 55, 4330-4334.	5.3	2
86	Dynamic QoS Evaluation of Multimedia Contents in Wireless Networks by "Double-Boomerang" Watermarking. Future Internet, 2010, 2, 60-73.	3.8	2
87	A fast code acquisition technique for positioning systems. , 2010, , .		2
88	Loss tolerant video streaming authentication in heterogeneous wireless networks. Computer Communications, 2011, 34, 1307-1315.	5.1	2
89	Communication services applied to business: A simple algorithm for personal trading. , 2013, , .		2
90	Reducing mean acquisition time in code synchronization for wireless communications. , 2013, , .		2

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91	SoftGap: A Multi Independent Levels of Security Cross-Domain Solution. , 2015, , .		2
92	Subspace-Based Target Detection in the Presence of Multiple Alternative Hypotheses. , 2020, , .		2
93	Unauthorized Access Detection in Underlay Cognitive Satellite Networks. IEEE Networking Letters, 2021, 3, 181-185.	1.9	2
94	Detecting Approaching Sources in Infrastructure-Less Vehicular Communications by a Simple Signal Processing Method. Journal of Communications, 2013, 8, 383-388.	1.6	2
95	Two-dwell code acquisition techniques by advanced spatio-temporal antennas for the radio access of 3G mobile communications. , 2003, , .		2
96	Initial Code Acquisition in LTE Systems. Recent Patents on Computer Science, 2013, 6, 2-13.	0.5	2
97	A Method for Quantitative Ultrasonic Backscatter Estimates in the Presence of Phase Distortion. IEEE Transactions on Biomedical Engineering, 1987, BME-34, 37-42.	4.2	1
98	<title>Image sequence coding using concepts in visual perception</title>. , 1990, , .		1
99	Complex hybrid correlators: an extended analysis of their performance. IEEE Transactions on Signal Processing, 1995, 43, 1531-1535.	5.3	1
100	Efficient direct-sequence code acquisition in spread-spectrum communication systems. , 0, , .		1
101	Object-based quality of service assessment using semi-fragile tracing watermarking in MPEG-4 video cellular services. , 0, , .		1
102	A subpixel algorithm for the reconstruction of kinematics from video sequences in orthostatic postural tests. , 0, , .		1
103	Initial DS/SS code synchronization by two-dimensional techniques and MIMO systems. , 0, , .		1
104	Real-time loss tolerant video streaming authentication for satellite links. , 2009, , .		1
105	Dynamic Frame Rate Adjustment for Real-Time Video in Vehicular Networks. , 2009, , .		1
106	A novel procedure for initial cell search in 3GPP LTE wireless access networks. , 2012, , .		1
107	Improving the code acquisition of LTE systems. , 2012, , .		1
108	A Rakeness test for coherent signal combining in mobile receivers. , 2013, , .		1

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109	A Channel Classification Scheme Accounting for Nakagami- m Shadowing and FTR Model. IEEE Wireless Communications Letters, 2021, 10, 2289-2293.	5.0	1
110	Two-Dwell Synchronization Techniques and MIMO Systems for Performance Improvements of 3G Mobile Communications. International Journal of Communications, Network and System Sciences, 2009, 02, 511-517.	0.6	1
111	Performance Analysis of Tracing Watermarking in the YST Domain for 3G Video-on-Demand Applications. International Journal of Sensor Networks and Data Communications, 2012, 1, 1-7.	0.1	1
112	A Survey of Recent Patents on Spectrum Sensing for Cognitive Radios. Recent Patents on Computer Science, 2013, 6, 137-144.	0.5	1
113	Computer Aided Effective Prediction of Complete Responders After Radiochemotherapy Based on Tumor Regression Grade Estimated by MR Imaging. Lecture Notes in Computational Vision and Biomechanics, 2019, , 257-266.	0.5	1
114	Perceptual redundancy reduction in image sequences. Signal Processing, 1990, 20, 187-188.	3.7	0
115	Accuracy of a time delay estimator with unknown sampled signals. Signal Processing, 1995, 45, 131-136.	3.7	0
116	Improving the code acquisition performance in the radio access of spread spectrum communications by exploiting cell correlation. , 2004, , .		0
117	A Scheme of Fractional Modulation for Wireless OFDM. , 2006, , .		0
118	Advanced Modulation Formats in Optical Code Division Multiple Access Networks. , 2007, , .		0
119	Collaborative Networking for Dynamic QoS Management in 3G Communications by "Boomerang" Watermarking. , 2007, , .		0
120	Improving the Initial Code Acquisition in Asynchronous Band-Limited Spread-Spectrum Systems. , 2008, , .		0
121	On the Performance Improvements of Max-SINR Equalizers in Wireless Communications. , 2009, , .		0
122	Performance Improvements of Code Acquisition in Satellite Spread Spectrum Systems. , 2010, , .		0
123	An Effective Code Generator for Frequent Authentication of Multimedia Contents in Mobile Applications and Services. , 2011, , .		0
124	Effective code acquisition of Galileo BOC signals. , 2011, , .		0
125	Image Processing and Display. International Journal of Computer Assisted Radiology and Surgery, 2012, 7, 71-88.	2.8	0
126	Improving the interference temperature estimation for Dynamic Spectrum Access in cognitive radios. , 2013, , .		0

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127	Novel extended modified twin test based sensing for cooperative communication under noise uncertainty. , 2016, , .		0
128	A theoretical note on the generalized ML optimality of constant modulus equalizers. Signal Processing, 2018, 143, 298-302.	3.7	0
129	Mr Image Processing to Predict Complete Responders by Evaluating the Tumor Regression Grade: A Sensitivity Analysis. , 2019, , .		0
130	A Sparse Learning Based Detector with Enhanced Mismatched Signals Rejection Capabilities. , 2020, , .		0
131	Effective PN code acquisition in Global Positioning Systems for new generation wireless networks and services. , 2005, , .		0
132	Recent Patents In Spread Spectrum Systems. Recent Patents on Electrical and Electronic Engineering, 2013, 6, 95-100.	0.5	0
133	A Review of Recent Patents for Quality Assessment of Multimedia Communications by Digital Watermarking. Recent Patents on Computer Science, 2013, 6, 129-136.	0.5	0
134	Efficient Representation and High-Compression Coding of Image Sequences. , 1992, , 449-463.		0
135	QoS Provisionig And Control In Real-Time Interactive Multimedia Communications Using Digital Watermarking. , 2006, , 73-82.		0