

Christian H Ritz

List of Publications by Year in descending order

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Version: 2024-02-01

106
papers

941
citations

567281

15
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610901

24
g-index

106
all docs

106
docs citations

106
times ranked

764
citing authors

#	ARTICLE	IF	CITATIONS
1	The role of deep learning and radiomic feature extraction in cancer-specific predictive modelling: a review. <i>Translational Cancer Research</i> , 2018, 7, 803-816.	1.0	128
2	Decoding Student Satisfaction: How to Manage and Improve the Laboratory Experience. <i>IEEE Transactions on Education</i> , 2015, 58, 151-158.	2.4	44
3	Investigating the impact of sensory effects on the Quality of Experience and emotional response in web videos. , 2012, , .		41
4	Design of Chirp Waveforms for Multiple-Access Ultrasonic Indoor Positioning. <i>IEEE Sensors Journal</i> , 2018, 18, 6375-6390.	4.7	34
5	Improving the Laboratory Learning Experience: A Process to Train and Manage Teaching Assistants. <i>IEEE Transactions on Education</i> , 2015, 58, 130-139.	2.4	30
6	Enhancing Project-Based Learning Through Student and Industry Engagement in a Video-Augmented 3-D Virtual Trade Fair. <i>IEEE Transactions on Education</i> , 2016, 59, 290-298.	2.4	29
7	Encoding Multiple Audio Objects Using Intra-Object Sparsity. <i>IEEE/ACM Transactions on Audio Speech and Language Processing</i> , 2015, 23, 1082-1095.	5.8	27
8	Motion classification using Dynamic Time Warping. , 2008, , .		26
9	Encoding and communicating navigable speech soundfields. <i>Multimedia Tools and Applications</i> , 2016, 75, 5183-5204.	3.9	22
10	Collaborative Blind Source Separation Using Location Informed Spatial Microphones. <i>IEEE Signal Processing Letters</i> , 2013, 20, 83-86.	3.6	21
11	Using Social Networking and Collections to Enable Video Semantics Acquisition. <i>IEEE MultiMedia</i> , 2009, 16, 52-61.	1.7	20
12	Separation of multiple speech sources by recovering sparse and non-sparse components from B-format microphone recordings. <i>Speech Communication</i> , 2018, 96, 184-196.	2.8	20
13	Encoding Navigable Speech Sources: A Psychoacoustic-Based Analysis-by-Synthesis Approach. <i>IEEE Transactions on Audio Speech and Language Processing</i> , 2013, 21, 29-38.	3.2	19
14	Multizone Soundfield Reproduction With Privacy- and Quality-Based Speech Masking Filters. <i>IEEE/ACM Transactions on Audio Speech and Language Processing</i> , 2018, 26, 1041-1055.	5.8	19
15	Deep Gabor Neural Network for Automatic Detection of Mine-Like Objects in Sonar Imagery. <i>IEEE Access</i> , 2020, 8, 94126-94139.	4.2	19
16	Multi-Source DOA Estimation Using an Acoustic Vector Sensor Array Under a Spatial Sparse Representation Framework. <i>Circuits, Systems, and Signal Processing</i> , 2016, 35, 993-1020.	2.0	17
17	A General Compression Approach to Multi-Channel Three-Dimensional Audio. <i>IEEE Transactions on Audio Speech and Language Processing</i> , 2013, 21, 1676-1688.	3.2	15
18	Multi-Source DOA Estimation in Reverberant Environments by Jointing Detection and Modeling of Time-Frequency Points. <i>IEEE/ACM Transactions on Audio Speech and Language Processing</i> , 2021, 29, 379-392.	5.8	15

#	ARTICLE	IF	CITATIONS
19	Attention-Based Residual Network with Scattering Transform Features for Hyperspectral Unmixing with Limited Training Samples. Remote Sensing, 2020, 12, 400.	4.0	14
20	A Spatial Squeezing approach to Ambisonic audio compression. Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing, 2008, , .	1.8	13
21	Keyword spotting based on the analysis of template matching distances. , 2011, , .		13
22	Principles and Analysis of the Squeezing Approach to Low Bit Rate Spatial Audio Coding. , 2007, , .		12
23	The MPEG-7 query format: a new standard in progress for multimedia query by content. , 2007, , .		12
24	Reconfigurable Media Coding: Self-Describing Multimedia Bitstreams. Signal Processing Systems Design and Implementation (siPS), IEEE Workshop on, 2007, , .	0.0	12
25	Multiple-to-single sound source localization by applying single-source bins detection. Applied Acoustics, 2018, 138, 28-38.	3.3	12
26	Unbalanced Hybrid AOA/RSSI Localization for Simplified Wireless Sensor Networks. Sensors, 2020, 20, 3838.	3.8	12
27	Is That a Fish in Your Ear? A Universal Metalanguage for Multimedia. IEEE MultiMedia, 2007, 14, 72-77.	1.7	11
28	Speech enhancement via separation of sources from co-located microphone recordings. , 2010, , .		11
29	Robust Entangled-Photon Ghost Imaging with Compressive Sensing. Sensors, 2019, 19, 192.	3.8	11
30	A Study of Features and Deep Neural Network Architectures and Hyper-Parameters for Domestic Audio Classification. Applied Sciences (Switzerland), 2021, 11, 4880.	2.5	11
31	Psychoacoustic-based quantisation of spatial audio cues. Electronics Letters, 2008, 44, 1098.	1.0	10
32	A psychoacoustic-based analysis-by-synthesis scheme for jointly encoding multiple audio objects into independent mixtures. , 2013, , .		9
33	Planogram Compliance Checking Based on Detection of Recurring Patterns. IEEE MultiMedia, 2016, 23, 54-63.	1.7	9
34	Energy-Harvesting Aided Unmanned Aerial Vehicles for Reliable Ground User Localization and Communications Under Lognormal-Nakagami- m Fading Channels. IEEE Transactions on Vehicular Technology, 2021, 70, 1632-1647.	6.3	9
35	Improving speech privacy in personal sound zones. , 2016, , .		8
36	Achieving maximum utilization of peer-to-peer upload capacity in p2p networks using SVC. Peer-to-Peer Networking and Applications, 2017, 10, 45-65.	3.9	8

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37	Co-prime Circular Microphone Arrays and Their Application to Direction of Arrival Estimation of Speech Sources. , 2019, , .		8
38	Addressing misconceptions about engineering through student-industry interaction in a video-augmented 3D immersive virtual world. , 2016, , .		7
39	Blind speaker counting in highly reverberant environments by clustering coherence features. , 2017, , .		7
40	Using Machine Learning Applied to Radiomic Image Features for Segmenting Tumour Structures. , 2019, , .		7
41	Format-Independent Rich Media Delivery Using the Bitstream Binding Language. IEEE Transactions on Multimedia, 2008, 10, 514-522.	7.2	6
42	Ensuring Quality of Experience for markerless image recognition applied to print media content. , 2012, , .		6
43	Efficient utilization of peer's upload capacity in P2P networks using SVC. , 2014, , .		6
44	QoE Based P2P Scalable Video Streaming over Mobile Ad Hoc Networks. , 2015, , .		6
45	Enhancing Target Speech Based on Nonlinear Soft Masking Using a Single Acoustic Vector Sensor. Applied Sciences (Switzerland), 2018, 8, 1436.	2.5	6
46	A Deep Learning Approach to the Acoustic Condition Monitoring of a Sintering Plant. , 2018, , .		6
47	Interpolating the Directional Room Impulse Response for Dynamic Spatial Audio Reproduction. Applied Sciences (Switzerland), 2022, 12, 2061.	2.5	6
48	Image compression and retrieval for Mobile Visual Search. , 2012, , .		5
49	Analysing the Quality of Experience of multisensory media from measurements of physiological responses. , 2014, , .		5
50	Forming ad-hoc microphone arrays through clustering of acoustic room impulse responses. , 2015, , .		5
51	Scattering Transform Framework for Unmixing of Hyperspectral Data. Remote Sensing, 2019, 11, 2868.	4.0	5
52	Encoding Independent Sources in Spatially Squeezed Surround Audio Coding. , 2007, , 804-813.		5
53	Format-Independent Multimedia Streaming. , 2006, , .		4
54	Hybrid FEC and MDC models for low-delay packet-loss recovery. , 2011, , .		4

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55	Encoding navigable speech sources: An analysis by synthesis approach. , 2012, , .		4
56	Clustered multi-channel dereverberation for ad-hoc microphone arrays. , 2015, , .		4
57	An efficient approach to dynamically weighted multizone wideband reproduction of speech soundfields. , 2015, , .		4
58	Towards real-time source counting by estimation of coherent-to-diffuse ratios from ad-hoc microphone array recordings. , 2017, , .		4
59	An ensemble approach to deepâ€learningâ€based wireless indoor localization. IET Wireless Sensor Systems, 2022, 12, 33-55.	1.7	4
60	Enhancing Interoperability via Generic Multimedia Syntax Translation. , 2006, , .		3
61	Spatialized Teleconferencing: Recording and `Squeezed' Rendering of Multiple Distributed Sites. , 2008, , .		3
62	Limb-based feature description of human motion. , 2011, , .		3
63	How much longer to go? The influence of waiting time and progress indicators on quality of experience for mobile visual search applied to print media. , 2013, , .		3
64	Adaptive and robust feature selection for low bitrate mobile augmented reality applications. , 2014, , .		3
65	Multizone reproduction of speech soundfields: A perceptually weighted approach. , 2015, , .		3
66	Informed source location and DOA estimation using acoustic room impulse response parameters. , 2015, , .		3
67	Reproducing personal sound zones using a hybrid synthesis of dynamic and parametric loudspeakers. , 2016, , .		3
68	Detecting multiple, simultaneous talkers through localising speech recorded by ad-hoc microphone arrays. , 2016, , .		3
69	Learning a robust DOA estimation model with acoustic vector sensor cues. , 2017, , .		3
70	Spatial multi-channel linear prediction for dereverberation of ad-hoc microphones. , 2017, , .		3
71	Supporting the conceptualization of student innovation projects through peer and expert feedback on virtual pitches. , 2017, , 119-135.		3
72	Investigating Co-Prime Microphone Arrays for Speech Direction of Arrival Estimation. , 2018, , .		3

#	ARTICLE	IF	CITATIONS
73	A Survey on Ad Hoc Signal Processing: Applications, Challenges and State-of-the-Art Techniques. , 2019, , .		3
74	Semi-Coprime Microphone Arrays for Estimating Direction of Arrival of Speech Sources. , 2019, , .		3
75	Two-dimensional detection based LRSS point recognition for multi-source DOA estimation. Applied Acoustics, 2022, 186, 108481.	3.3	3
76	An efficient approach to generic multimedia adaptation. , 2006, , .		2
77	MQF: An Xml Based Multimedia Query Format. , 2007, , .		2
78	Efficient multimedia query-by-content from mobile devices. Computers and Electrical Engineering, 2010, 36, 626-642.	4.8	2
79	Packet loss protection for interactive audio object rendering: A multiple description approach. , 2012, , .		2
80	Speech enhancement with an acoustic vector sensor: an effective adaptive beamforming and post-filtering approach. Eurasip Journal on Audio, Speech, and Music Processing, 2014, 2014, .	2.1	2
81	Feature selection for low bit rate mobile augmented reality applications. Signal Processing: Image Communication, 2015, 36, 115-126.	3.2	2
82	Active speech control using wave-domain processing with a linear wall of dipole secondary sources. , 2017, , .		2
83	On the Comparison of Two Room Compensation / Dereverberation Methods Employing Active Acoustic Boundary Absorption. , 2018, , .		2
84	Multi-Channel Electronic Stethoscope for Enhanced Cardiac Auscultation using Beamforming and Equalisation Techniques. , 2021, , .		2
85	Intelligent Multimedia Delivery? It’s a question of semantics. , 2007, , .		1
86	Binaural reproduction of Spatially Squeezed Surround Audio. , 2008, , .		1
87	What's your contribution? An online system for assessing each member's participation in team based projects. , 2010, , .		1
88	The joint effect of image blur and illumination distortions for Mobile Visual Search of print media. , 2013, , .		1
89	Design and analysis of miniature and three tiered B-format microphones manufactured using 3D printing. , 2015, , .		1
90	Assessing the prognostic impact of 3D CT image tumour rind texture features on lung cancer survival modelling. , 2017, , .		1

#	ARTICLE	IF	CITATIONS
91	Generic, Scalable Multimedia Streaming and Delivery with Example Application for H.264/AVC. Lecture Notes in Computer Science, 2006, , 349-356.	1.3	1
92	Distributed Microphone Arrays, Emerging Speech and Audio Signal Processing Platforms: A Review. Advances in Science, Technology and Engineering Systems, 2020, 5, 331-343.	0.5	1
93	Very low rate speech coding using temporal decomposition and waveform interpolation. , 0, , .		0
94	Temporal decomposition for low rate wideband speech compression. Electronics Letters, 2001, 37, 542.	1.0	0
95	Waveform interpolation for 4â€¦kbitâˆªs wideband speech coding. Electronics Letters, 2002, 38, 486.	1.0	0
96	Using Spatial Audio Cues from Speech Excitation for Meeting Speech Segmentation. , 2006, , .		0
97	Time Delay Estimation of Reverberant Meeting Speech: On the Use of Multichannel Linear Prediction. , 2007, , .		0
98	Compression of navigable speech soundfield zones. , 2011, , .		0
99	What Are You Trying to Say? Format-Independent Semantic-Aware Streaming and Delivery. , 2011, , .		0
100	Toward human motion search using fingerprinting. , 2012, , .		0
101	Noise robust keyword spotting for user generated video blogs. , 2013, , .		0
102	Fast and accurate low bit rate retrieval-by-capture applications. , 2014, , .		0
103	Quality of experience-based image feature selection for mobile augmented reality applications. , 2014, , .		0
104	Packet loss protection for interactive speech object rendering: A multiple description approach. , 2014, , .		0
105	Single-channel speech separation by including spectral structure information within non-negative matrix factorization. , 2015, , .		0
106	A comparative study of machine learning techniques for the improved prediction of NSCLC survival analysis. , 2018, , .		0