

Christian H Ritz

List of Publications by Year in descending order

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106
papers

941
citations

567281

15
h-index

610901

24
g-index

106
all docs

106
docs citations

106
times ranked

764
citing authors

#	ARTICLE	IF	CITATIONS
1	Two-dimensional detection based LRSS point recognition for multi-source DOA estimation. Applied Acoustics, 2022, 186, 108481.	3.3	3
2	Interpolating the Directional Room Impulse Response for Dynamic Spatial Audio Reproduction. Applied Sciences (Switzerland), 2022, 12, 2061.	2.5	6
3	An ensemble approach to deep learning-based wireless indoor localization. IET Wireless Sensor Systems, 2022, 12, 33-55.	1.7	4
4	Multi-Channel Electronic Stethoscope for Enhanced Cardiac Auscultation using Beamforming and Equalisation Techniques. , 2021, , .		2
5	Multi-Source DOA Estimation in Reverberant Environments by Jointing Detection and Modeling of Time-Frequency Points. IEEE/ACM Transactions on Audio Speech and Language Processing, 2021, 29, 379-392.	5.8	15
6	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
7	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
8	Deep Gabor Neural Network for Automatic Detection of Mine-Like Objects in Sonar Imagery. IEEE Access, 2020, 8, 94126-94139.	4.2	19
9	Unbalanced Hybrid AOA/RSSI Localization for Simplified Wireless Sensor Networks. Sensors, 2020, 20, 3838.	3.8	12
10	Attention-Based Residual Network with Scattering Transform Features for Hyperspectral Unmixing with Limited Training Samples. Remote Sensing, 2020, 12, 400.	4.0	14
11	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
12	Co-prime Circular Microphone Arrays and Their Application to Direction of Arrival Estimation of Speech Sources. , 2019, , .		8
13	Robust Entangled-Photon Ghost Imaging with Compressive Sensing. Sensors, 2019, 19, 192.	3.8	11
14	A Survey on Ad Hoc Signal Processing: Applications, Challenges and State-of-the-Art Techniques. , 2019, , .		3
15	Semi-Coprime Microphone Arrays for Estimating Direction of Arrival of Speech Sources. , 2019, , .		3
16	Using Machine Learning Applied to Radiomic Image Features for Segmenting Tumour Structures. , 2019, , .		7
17	Scattering Transform Framework for Unmixing of Hyperspectral Data. Remote Sensing, 2019, 11, 2868.	4.0	5
18	Multizone Soundfield Reproduction With Privacy- and Quality-Based Speech Masking Filters. IEEE/ACM Transactions on Audio Speech and Language Processing, 2018, 26, 1041-1055.	5.8	19

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19	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
20	Enhancing Target Speech Based on Nonlinear Soft Masking Using a Single Acoustic Vector Sensor. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 1436.	2.5	6
21	A comparative study of machine learning techniques for the improved prediction of NSCLC survival analysis. , 2018, , .		0
22	A Deep Learning Approach to the Acoustic Condition Monitoring of a Sintering Plant. , 2018, , .		6
23	On the Comparison of Two Room Compensation / Dereverberation Methods Employing Active Acoustic Boundary Absorption. , 2018, , .		2
24	Investigating Co-Prime Microphone Arrays for Speech Direction of Arrival Estimation. , 2018, , .		3
25	Design of Chirp Waveforms for Multiple-Access Ultrasonic Indoor Positioning. <i>IEEE Sensors Journal</i> , 2018, 18, 6375-6390.	4.7	34
26	Multiple-to-single sound source localization by applying single-source bins detection. <i>Applied Acoustics</i> , 2018, 138, 28-38.	3.3	12
27	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
28	Achieving maximum utilization of peerâ€™s upload capacity in p2p networks using SVC. <i>Peer-to-Peer Networking and Applications</i> , 2017, 10, 45-65.	3.9	8
29	Towards real-time source counting by estimation of coherent-to-diffuse ratios from ad-hoc microphone array recordings. , 2017, , .		4
30	Active speech control using wave-domain processing with a linear wall of dipole secondary sources. , 2017, , .		2
31	Learning a robust DOA estimation model with acoustic vector sensor cues. , 2017, , .		3
32	Spatial multi-channel linear prediction for dereverberation of ad-hoc microphones. , 2017, , .		3
33	Assessing the prognostic impact of 3D CT image tumour rind texture features on lung cancer survival modelling. , 2017, , .		1
34	Blind speaker counting in highly reverberant environments by clustering coherence features. , 2017, , .		7
35	Supporting the conceptualization of student innovation projects through peer and expert feedback on virtual pitches. , 2017, , 119-135.		3
36	Reproducing personal sound zones using a hybrid synthesis of dynamic and parametric loudspeakers. , 2016, , .		3

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37	Encoding and communicating navigable speech soundfields. Multimedia Tools and Applications, 2016, 75, 5183-5204.	3.9	22
38	Addressing misconceptions about engineering through student-industry interaction in a video-augmented 3D immersive virtual world. , 2016, , .		7
39	Planogram Compliance Checking Based on Detection of Recurring Patterns. IEEE MultiMedia, 2016, 23, 54-63.	1.7	9
40	Enhancing Project-Based Learning Through Student and Industry Engagement in a Video-Augmented 3-D Virtual Trade Fair. IEEE Transactions on Education, 2016, 59, 290-298.	2.4	29
41	Improving speech privacy in personal sound zones. , 2016, , .		8
42	Detecting multiple, simultaneous talkers through localising speech recorded by ad-hoc microphone arrays. , 2016, , .		3
43	Multi-Source DOA Estimation Using an Acoustic Vector Sensor Array Under a Spatial Sparse Representation Framework. Circuits, Systems, and Signal Processing, 2016, 35, 993-1020.	2.0	17
44	Clustered multi-channel dereverberation for ad-hoc microphone arrays. , 2015, , .		4
45	Single-channel speech separation by including spectral structure information within non-negative matrix factorization. , 2015, , .		0
46	Multizone reproduction of speech soundfields: A perceptually weighted approach. , 2015, , .		3
47	QoE Based P2P Scalable Video Streaming over Mobile Ad Hoc Networks. , 2015, , .		6
48	Informed source location and DOA estimation using acoustic room impulse response parameters. , 2015, , .		3
49	An efficient approach to dynamically weighted multizone wideband reproduction of speech soundfields. , 2015, , .		4
50	Improving the Laboratory Learning Experience: A Process to Train and Manage Teaching Assistants. IEEE Transactions on Education, 2015, 58, 130-139.	2.4	30
51	Encoding Multiple Audio Objects Using Intra-Object Sparsity. IEEE/ACM Transactions on Audio Speech and Language Processing, 2015, 23, 1082-1095.	5.8	27
52	Feature selection for low bit rate mobile augmented reality applications. Signal Processing: Image Communication, 2015, 36, 115-126.	3.2	2
53	Decoding Student Satisfaction: How to Manage and Improve the Laboratory Experience. IEEE Transactions on Education, 2015, 58, 151-158.	2.4	44
54	Design and analysis of miniature and three tiered B-format microphones manufactured using 3D printing. , 2015, , .		1

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55	Forming ad-hoc microphone arrays through clustering of acoustic room impulse responses. , 2015, , .		5
56	Analysing the Quality of Experience of multisensory media from measurements of physiological responses. , 2014, , .		5
57	Fast and accurate low bit rate retrieval-by-capture applications. , 2014, , .		0
58	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
59	Adaptive and robust feature selection for low bitrate mobile augmented reality applications. , 2014, , .		3
60	Quality of experience-based image feature selection for mobile augmented reality applications. , 2014, , .		0
61	Packet loss protection for interactive speech object rendering: A multiple description approach. , 2014, , .		0
62	Efficient utilization of peer's upload capacity in P2P networks using SVC. , 2014, , .		6
63	Collaborative Blind Source Separation Using Location Informed Spatial Microphones. IEEE Signal Processing Letters, 2013, 20, 83-86.	3.6	21
64	Noise robust keyword spotting for user generated video blogs. , 2013, , .		0
65	Encoding Navigable Speech Sources: A Psychoacoustic-Based Analysis-by-Synthesis Approach. IEEE Transactions on Audio Speech and Language Processing, 2013, 21, 29-38.	3.2	19
66	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
67	A psychoacoustic-based analysis-by-synthesis scheme for jointly encoding multiple audio objects into independent mixtures. , 2013, , .		9
68	A General Compression Approach to Multi-Channel Three-Dimensional Audio. IEEE Transactions on Audio Speech and Language Processing, 2013, 21, 1676-1688.	3.2	15
69	The joint effect of image blur and illumination distortions for Mobile Visual Search of print media. , 2013, , .		1
70	Image compression and retrieval for Mobile Visual Search. , 2012, , .		5
71	Ensuring Quality of Experience for markerless image recognition applied to print media content. , 2012, , .		6
72	Packet loss protection for interactive audio object rendering: A multiple description approach. , 2012, , .		2

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73	Encoding navigable speech sources: An analysis by synthesis approach. , 2012, , .		4
74	Toward human motion search using fingerprinting. , 2012, , .		0
75	Investigating the impact of sensory effects on the Quality of Experience and emotional response in web videos. , 2012, , .		41
76	Limb-based feature description of human motion. , 2011, , .		3
77	Compression of navigable speech soundfield zones. , 2011, , .		0
78	Hybrid FEC and MDC models for low-delay packet-loss recovery. , 2011, , .		4
79	What Are You Trying to Say? Format-Independent Semantic-Aware Streaming and Delivery. , 2011, , .		0
80	Keyword spotting based on the analysis of template matching distances. , 2011, , .		13
81	Efficient multimedia query-by-content from mobile devices. Computers and Electrical Engineering, 2010, 36, 626-642.	4.8	2
82	Speech enhancement via separation of sources from co-located microphone recordings. , 2010, , .		11
83	What's your contribution? An online system for assessing each member's participation in team based projects. , 2010, , .		1
84	Using Social Networking and Collections to Enable Video Semantics Acquisition. IEEE MultiMedia, 2009, 16, 52-61.	1.7	20
85	Format-Independent Rich Media Delivery Using the Bitstream Binding Language. IEEE Transactions on Multimedia, 2008, 10, 514-522.	7.2	6
86	Spatialized Teleconferencing: Recording and `Squeezed' Rendering of Multiple Distributed Sites. , 2008, , .		3
87	A Spatial Squeezing approach to Ambisonic audio compression. Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing, 2008, , .	1.8	13
88	Motion classification using Dynamic Time Warping. , 2008, , .		26
89	Psychoacoustic-based quantisation of spatial audio cues. Electronics Letters, 2008, 44, 1098.	1.0	10
90	Binaural reproduction of Spatially Squeezed Surround Audio. , 2008, , .		1

#	ARTICLE	IF	CITATIONS
91	Principles and Analysis of the Squeezing Approach to Low Bit Rate Spatial Audio Coding. , 2007, , .		12
92	Intelligent Multimedia Delivery? It’s a question of semantics. , 2007, , .		1
93	MQF: An Xml Based Multimedia Query Format. , 2007, , .		2
94	The MPEG-7 query format: a new standard in progress for multimedia query by content. , 2007, , .		12
95	Time Delay Estimation of Reverberant Meeting Speech: On the Use of Multichannel Linear Prediction. , 2007, , .		0
96	Is That a Fish in Your Ear? A Universal Metalanguage for Multimedia. IEEE MultiMedia, 2007, 14, 72-77.	1.7	11
97	Reconfigurable Media Coding: Self-Describing Multimedia Bitstreams. Signal Processing Systems Design and Implementation (siPS), IEEE Workshop on, 2007, , .	0.0	12
98	Encoding Independent Sources in Spatially Squeezed Surround Audio Coding. , 2007, , 804-813.		5
99	Enhancing Interoperability via Generic Multimedia Syntax Translation. , 2006, , .		3
100	Using Spatial Audio Cues from Speech Excitation for Meeting Speech Segmentation. , 2006, , .		0
101	An efficient approach to generic multimedia adaptation. , 2006, , .		2
102	Format-Independent Multimedia Streaming. , 2006, , .		4
103	Generic, Scalable Multimedia Streaming and Delivery with Example Application for H.264/AVC. Lecture Notes in Computer Science, 2006, , 349-356.	1.3	1
104	Waveform interpolation for 4â€¦kbitâˆ•s wideband speech coding. Electronics Letters, 2002, 38, 486.	1.0	0
105	Temporal decomposition for low rate wideband speech compression. Electronics Letters, 2001, 37, 542.	1.0	0
106	Very low rate speech coding using temporal decomposition and waveform interpolation. , 0, , .		0