

Jan P Cornelis

List of Publications by Year in descending order

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Version: 2024-02-01

151
papers

2,239
citations

377584

21
h-index

312153

41
g-index

153
all docs

153
docs citations

153
times ranked

2019
citing authors

#	ARTICLE	IF	CITATIONS
1	EU-China university governance structuresâ€™ case studies. <i>Asia Europe Journal</i> , 2022, 20, 137-171.	0.7	1
2	Improved automated early detection of breast cancer based on high resolution 3D micro-CT microcalcification images. <i>BMC Cancer</i> , 2022, 22, 162.	1.1	4
3	Iris Segmentation based on an Optimized U-Net. , 2022, , .		0
4	Centennial Total Solar Irradiance Variation. <i>Remote Sensing</i> , 2022, 14, 1072.	1.8	9
5	Real-Time Analysis of Hand Gesture Recognition with Temporal Convolutional Networks. <i>Sensors</i> , 2022, 22, 1694.	2.1	7
6	A Hybrid Approach for Designing Dynamic and Data-Driven Clinical Pathways Point of Care Instruments in Low Resource Settings. <i>Studies in Health Technology and Informatics</i> , 2022, , .	0.2	1
7	Hilbert sEMG data scanning for hand gesture recognition based on deep learning. <i>Neural Computing and Applications</i> , 2021, 33, 2645-2666.	3.2	19
8	A Systematic Literature Review of the Successors of â€œNeuroEvolution of Augmenting Topologiesâ€™. <i>Evolutionary Computation</i> , 2021, 29, 1-73.	2.3	29
9	The Effect of Space-filling Curves on the Efficiency of Hand Gesture Recognition Based on sEMG Signals. <i>International Journal of Electrical and Computer Engineering Systems</i> , 2021, 12, 23-31.	0.5	1
10	Artificial Intelligence Revolutionises Weather Forecast, Climate Monitoring and Decadal Prediction. <i>Remote Sensing</i> , 2021, 13, 3209.	1.8	34
11	Transfer Learning in sEMG-based Gesture Recognition. , 2021, , .		3
12	Data Augmentation of Surface Electromyography for Hand Gesture Recognition. <i>Sensors</i> , 2020, 20, 4892.	2.1	24
13	A Hilbert Curve Based Representation of sEMG Signals for Gesture Recognition. , 2019, , .		16
14	Improved Gesture Recognition Based on sEMG Signals and TCN. , 2019, , .		53
15	Comparison of micro-CT imaging and histology for approximal caries detection. <i>Scientific Reports</i> , 2017, 7, 6680.	1.6	23
16	Hazard Mapping of Landmines and ERW Using Geo-Spatial Techniques. <i>Journal of Remote Sensing & GIS</i> , 2017, 06, .	0.3	4
17	Comparison of spatial and aspatial logistic regression models for landmine risk mapping. <i>Applied Geography</i> , 2016, 66, 52-63.	1.7	19
18	Spectral Aging Model Applied to Meteosat First Generation Visible Band. <i>Remote Sensing</i> , 2014, 6, 2534-2571.	1.8	10

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19	Determination of the precision and accuracy of morphological measurements using the Kinect [®] sensor: comparison with standard stereophotogrammetry. <i>Ergonomics</i> , 2014, 57, 622-631.	1.1	44
20	Validity and reliability of the Kinect within functional assessment activities: Comparison with standard stereophotogrammetry. <i>Gait and Posture</i> , 2014, 39, 593-598.	0.6	220
21	Phased searching with NEAT in a Time-Scaled Framework: Experiments on a computer-aided detection system for lung nodules. <i>Artificial Intelligence in Medicine</i> , 2013, 59, 157-167.	3.8	25
22	ACM-Based Automatic Liver Segmentation From 3-D CT Images by Combining Multiple Atlases and Improved Mean-Shift Techniques. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2013, 17, 690-698.	3.9	30
23	Evidence of pre-launch characterization problem of Meteosat-7 visible spectral response. <i>Remote Sensing Letters</i> , 2013, 4, 1008-1017.	0.6	7
24	Probabilistic motion-compensated prediction in distributed video coding. <i>Multimedia Tools and Applications</i> , 2013, 66, 405-430.	2.6	5
25	Crack detection and inpainting for virtual restoration of paintings: The case of the Ghent Altarpiece. <i>Signal Processing</i> , 2013, 93, 605-619.	2.1	77
26	A Spectral Aging Model for the Meteosat-7 Visible Band. <i>Journal of Atmospheric and Oceanic Technology</i> , 2013, 30, 496-509.	0.5	7
27	Feature Extraction for Iris Recognition Based on Optimized Convolution Kernels. <i>Lecture Notes in Computer Science</i> , 2013, , 141-150.	1.0	4
28	Ambulatory Cardiogenic Pulmonary Edema Monitoring as an Essential Ubiquitous Healthcare Service – Development of a Simulation Model. <i>Journal of Medical Imaging and Health Informatics</i> , 2012, 2, 64-69.	0.2	0
29	Symmetric Scalable Multiple Description Scalar Quantization. <i>IEEE Transactions on Signal Processing</i> , 2012, 60, 3628-3643.	3.2	4
30	Analysis of a feature-deselective neuroevolution classifier (FD-NEAT) in a computer-aided lung nodule detection system for CT images. , 2012, , .		5
31	The Action Game. <i>Interaction Studies</i> , 2012, 13, 285-313.	0.4	0
32	Digital canvas removal in paintings. <i>Signal Processing</i> , 2012, 92, 1166-1171.	2.1	16
33	A model-based analysis of scalable Multiple Description Coding. , 2011, , .		0
34	A probabilistic predictor for side information generation in distributed video coding. , 2011, , .		2
35	A novel computer-aided lung nodule detection system for CT images. <i>Medical Physics</i> , 2011, 38, 5630-5645.	1.6	187
36	A shape prior constraint for implicit active contours. <i>Pattern Recognition Letters</i> , 2011, 32, 1937-1947.	2.6	16

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37	Histogram analysis of CT scans for patients with post-mastectomy lymphedema. , 2011, , .		0
38	On the use of directional transforms for still image coding. Proceedings of SPIE, 2011, , .	0.8	1
39	Experimental study of canvas characterization for paintings. Proceedings of SPIE, 2010, , .	0.8	3
40	Scalable Intra-band and Composite Wavelet-Based Coding of Semiregular Meshes. IEEE Transactions on Multimedia, 2010, 12, 773-789.	5.2	22
41	Scalable L-Infinite Coding of Meshes. IEEE Transactions on Visualization and Computer Graphics, 2010, 16, 513-528.	2.9	6
42	Efficient error control in 3D mesh coding. , 2010, , .		1
43	Modeling Wavelet Coefficients for Wavelet Subdivision Transforms of 3D Meshes. Lecture Notes in Computer Science, 2010, , 267-278.	1.0	1
44	Automated Estimation of 3D Camera Extrinsic Parameters for the Monitoring of Physical Activity of Elderly Patients. IFMBE Proceedings, 2010, , 699-702.	0.2	0
45	Context-conditioned composite coding of 3D meshes based on wavelets on surfaces. , 2009, , .		3
46	Modeling the Correlation Noise in Spatial Domain Distributed Video Coding. , 2009, , .		7
47	On the side-information dependency of the temporal correlation in Wyner-Ziv video coding. , 2009, , .		8
48	Error protection of scalable sources: A comparative analysis of Forward Error Correction and Multiple Description Coding. , 2009, , .		5
49	Overlapped Block Motion Estimation and Probabilistic Compensation with Application in Distributed Video Coding. IEEE Signal Processing Letters, 2009, 16, 743-746.	2.1	26
50	Spatial-domain unidirectional DVC with side-information dependent correlation channel estimation. , 2009, , .		5
51	Correlation channel estimation in pixel-domain distributed video coding. , 2009, , .		5
52	Fully scalable intra-band coding of wavelet-decomposed 3D meshes. , 2009, , .		2
53	Optimized scalable Multiple-Description Coding and FEC-based Joint Source-Channel Coding: A performance comparison. , 2009, , .		4
54	Estimation of interband and intra-band statistical dependencies in wavelet-based decomposition of meshes. , 2009, , .		3

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55	Scalable Joint Source-Channel Coding for the Scalable Extension of H.264/AVC. IEEE Transactions on Circuits and Systems for Video Technology, 2008, 18, 1657-1670.	5.6	31
56	Common trend extraction from sets of genomic signals. , 2008, , .		1
57	Intra-frame video coding using an open-loop predictive coding approach. , 2008, , .		2
58	Statistical L-infinite distortion estimation in scalable coding of meshes. , 2008, , .		1
59	Nucleotide genomic signal analysis. , 2008, , .		0
60	Inserts in prokaryote genomes. , 2008, , .		3
61	Design and evaluation of sparse quantization index modulation watermarking schemes. Proceedings of SPIE, 2008, , .	0.8	1
62	Scalable Joint Source and Channel Coding of Meshes. IEEE Transactions on Multimedia, 2008, 10, 503-513.	5.2	11
63	Signal representation and processing of nucleotide sequences. International Journal of Functional Informatics and Personalised Medicine, 2008, 1, 253.	0.4	5
64	Applying Open-Loop Coding in Predictive Coding Systems. Lecture Notes in Computer Science, 2008, , 25-37.	1.0	0
65	Scalable Coding and Transmission of Meshes using MESHGRID. , 2008, , .		0
66	Joint Source-Channel Coding for the Scalable Extension of H.264/MPEG-4 AVC. , 2007, , .		1
67	Segmentation-Driven Direction-Adaptive Discrete Wavelet Transform. Proceedings International Conference on Image Processing, 2007, , .	0.0	4
68	Signal Analysis of Pathogens' Genomic Sequences. , 2007, , .		1
69	Analysis of the Statistical Dependencies in the Curvelet Domain and Applications in Image Compression. Lecture Notes in Computer Science, 2007, , 1061-1071.	1.0	4
70	Scalable Multiple-Description Image Coding Based on Embedded Quantization. Eurasip Journal on Image and Video Processing, 2007, 2007, 1-11.	1.7	10
71	A Low-Complexity UEP Methodology Demonstrated on a Turbo-Encoded Wavelet Image Satellite Downlink. Eurasip Journal on Wireless Communications and Networking, 2007, 2008, .	1.5	2
72	Signal Representation and Processing of Nucleotide Sequences. , 2007, , .		11

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73	Optimal Joint Source-Channel Coding using Unequal Error Protection for the Scalable Extension of H.264/MPEG-4 AVC. , 2007, , .		6
74	Distributed Video Coding with Shared Encoder/Decoder Complexity. , 2007, , .		16
75	ANN Prediction of Nucleotide Sequences Link of Principal Component Analysis to Fourier Transform. , 2007, , .		1
76	On Hybrid Directional Transform-Based Intra-band Image Coding. Lecture Notes in Computer Science, 2007, , 1049-1060.	1.0	5
77	Scalable Multiple-Description Image Coding Based on Embedded Quantization. Eurasip Journal on Image and Video Processing, 2007, 2007, 081813.	1.7	2
78	Information-Theoretic Analysis of Dependencies Between Curvelet Coefficients. , 2006, , .		8
79	MMC02-5: A Low-Complexity Methodology for Unequal Error Protection of Scalable Images. IEEE Global Telecommunications Conference (GLOBECOM), 2006, , .	0.0	0
80	Embedded Multiple Description Coding of Video. IEEE Transactions on Image Processing, 2006, 15, 3114-3130.	6.0	30
81	Wavelet-based scalable L-infinity-oriented compression. IEEE Transactions on Image Processing, 2006, 15, 2499-2512.	6.0	19
82	Unequal error protection of the reference grid for robust transmission of MeshGrid-represented objects over error-prone channels. , 2006, 6383, 56.		0
83	Joint source and channel coding of embedded wavelet-based coded images using LDPC codes. , 2006, , .		0
84	Impact of source-independent modeling on unequal error protection for JPEG2000 images. , 2006, 6383, 66.		1
85	A METHOD TO CONSTRUCT FLAT MAPS OF THE BRAIN'S SURFACE AND ITS APPLICATION. International Journal of Pattern Recognition and Artificial Intelligence, 2006, 20, 679-709.	0.7	3
86	Performing Deblocking in Video Coding Based on Spatial-Domain Motion-Compensated Temporal Filtering. Lecture Notes in Computer Science, 2006, , 364-374.	1.0	0
87	Single-rate calculation of overcomplete discrete wavelet transforms for scalable coding applications. Signal Processing, 2005, 85, 1103-1124.	2.1	4
88	Motion and texture rate-allocation for prediction-based scalable motion-vector coding. Signal Processing: Image Communication, 2005, 20, 315-342.	1.8	15
89	Generalisation of embedded multiple description scalar quantisers. Electronics Letters, 2005, 41, 63.	0.5	12
90	Watershed-based multiscale segmentation method for color images using automated scale selection. Journal of Electronic Imaging, 2005, 14, 033007.	0.5	6

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91	Complete-to-overcomplete discrete wavelet transforms: theory and applications. IEEE Transactions on Signal Processing, 2005, 53, 1398-1412.	3.2	31
92	Scalable motion vector coding. , 2004, , .		2
93	Scalable motion vector coding. Electronics Letters, 2004, 40, 932.	0.5	12
94	In-band motion compensated temporal filtering. Signal Processing: Image Communication, 2004, 19, 653-673.	1.8	121
95	MESHGRIDâ€”A Compact, Multiscalable and Animation-Friendly Surface Representation. IEEE Transactions on Circuits and Systems for Video Technology, 2004, 14, 950-966.	5.6	16
96	<title>Scalable multiple description coding of video using motion-compensated temporal filtering and embedded multiple description scalar quantization</title>. , 2004, 5607, 81.		1
97	<title>Error protection and concealment of motion vectors in MCTF-based video coding</title>. , 2004, , .		3
98	High-Level Cache Modeling for 2-D Discrete Wavelet Transform Implementations. Journal of Signal Processing Systems, 2003, 34, 209-226.	1.0	16
99	Wavelet coding of volumetric medical datasets. IEEE Transactions on Medical Imaging, 2003, 22, 441-458.	5.4	148
100	Wavelet-based fixed and embedded L-infinite-constrained image coding. Journal of Electronic Imaging, 2003, 12, 522.	0.5	14
101	Embedded multiple description scalar quantizers for progressive image transmission. , 2003, , .		5
102	<title>Complete-to-overcomplete discrete wavelet transforms for scalable video coding with MCTF</title>. , 2003, , .		20
103	JPEG2000 Part 10: volumetric imaging. , 2003, , .		6
104	Embedded multiple description scalar quantisers. Electronics Letters, 2003, 39, 979.	0.5	15
105	Wavelet-based L-infinite scalable coding. Electronics Letters, 2002, 38, 1338.	0.5	5
106	Bottom-up motion compensated prediction in wavelet domain for spatially scalable video coding. Electronics Letters, 2002, 38, 1251.	0.5	19
107	Model-based technique for the measurement of skin thickness in mammography. Medical and Biological Engineering and Computing, 2002, 40, 153-162.	1.6	5
108	A model-based approach to the automatic extraction of linear features from airborne images. IEEE Transactions on Geoscience and Remote Sensing, 2001, 39, 2073-2079.	2.7	57

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109	<title>MAXAD distortion minimization for wavelet compression of remote sensing data</title>. , 2001, , .		2
110	<title>Compression and multifunctionality support of multispectral satellite data</title>. , 2001, , .		2
111	<title>Compression of volumetric medical data based on cube splitting</title>. , 2000, , .		5
112	Multipole Approach to the Inverse Problem in Electrocardiology: Convergence of the Multipole Equivalent Generator on the Inhomogeneous Body Conductor. Bulletin of Mathematical Biology, 2000, 62, 543-583.	0.9	1
113	Using Landmarks to Establish a Point-to-Point Correspondence between Signatures. Pattern Analysis and Applications, 2000, 3, 69-75.	3.1	15
114	<title>Comparison of memory complexity of JPEG and JPEG 2000</title>. , 2000, 4115, 535.		0
115	A center-biased adaptive search algorithm for block motion estimation. IEEE Transactions on Circuits and Systems for Video Technology, 2000, 10, 423-426.	5.6	16
116	Contour simplification for segmented still image and video coding: algorithms and experimental results. Signal Processing: Image Communication, 1999, 14, 335-357.	1.8	9
117	Low level image partitioning guided by the gradient watershed hierarchy. Signal Processing, 1999, 75, 173-195.	2.1	22
118	Wavelet-based compression of medical images: Protocols to improve resolution and quality scalability and region-of-interest coding. Future Generation Computer Systems, 1999, 15, 171-184.	4.9	7
119	Wavelet-based lossless compression scheme with progressive transmission capability. International Journal of Imaging Systems and Technology, 1999, 10, 76-85.	2.7	44
120	An efficient VLSI architecture for 2-D wavelet image coding with novel image scan. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 1999, 7, 56-68.	2.1	25
121	Progressive lossless coding of medical images. Future Generation Computer Systems, 1998, 14, 23-32.	4.9	3
122	A novel charge amplifying technique. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1998, 406, 507-511.	0.7	0
123	Lossless multiresolution uniform representation of remote sensing satellite data on a sphere. , 1998, , .		0
124	<title>Model-based car tracking through the integration of search and estimation</title>. , 1998, 3364, 160.		0
125	Model-based calculation of the dynamic point spread function of a radiometer: a case study ScaRaB FM1. , 1998, 3491, 981.		0
126	Lossless integer wavelet transform. IEEE Signal Processing Letters, 1997, 4, 158-160.	2.1	62

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127	Segmented image coding: Techniques and experimental results. Signal Processing: Image Communication, 1997, 11, 63-80.	1.8	24
128	Hierarchical contour matching in medical images. Image and Vision Computing, 1996, 14, 417-433.	2.7	12
129	Topological Edge Finding. , 1996, , 427-430.		0
130	<title>Multistage analysis of Meteosat images</title>. , 1995, , .		0
131	<title>Hierarchical fractal-based segmentation of color images</title>. , 1995, , .		1
132	Adiabatic layering: A new concept of hierarchical multi-scale optimization. Neural Networks, 1995, 8, 1373-1378.	3.3	4
133	The vector-radix fast cosine transform: Pruning and complexity analysis. Signal Processing, 1995, 43, 197-205.	2.1	13
134	Object recognition in brain CT-scans: knowledge-based fusion of data from multiple feature extractors. IEEE Transactions on Medical Imaging, 1995, 14, 212-229.	5.4	50
135	An adiabatic neural network for RBF approximation. Neural Computing and Applications, 1994, 2, 69-88.	3.2	1
136	<title>Efficient computation of the two-dimensional fast cosine transform</title>. , 1994, 2238, 229.		3
137	Medical image processing. Image and Vision Computing, 1993, 11, 458-459.	2.7	0
138	Segmentation of medical images. Image and Vision Computing, 1993, 11, 486-503.	2.7	52
139	Mapping of bioelectric potentials: Two extensions to the multipole theory. , 1992, , .		3
140	A CMOS pulse-width modulator/pulse-amplitude modulator for four-quadrant analog multipliers. IEEE Journal of Solid-State Circuits, 1992, 27, 1289-1293.	3.5	13
141	Do you also have problems with the file format syndrome?. Medical and Biological Engineering and Computing, 1991, 29, NS55-NS60.	1.6	1
142	A critical view of pyramid segmentation algorithms. Pattern Recognition Letters, 1990, 11, 605-617.	2.6	105
143	Video coding based on motion estimation in the wavelet detail images. , 0, , .		3
144	A low bit rate segmented video codec with hybrid motion estimation and inherent bit rate control capability. , 0, , .		0

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145	Efficient implementation of embedded zero-tree wavelet encoding. , 0, , .		5
146	Cache misses and energy-dissipation results for JPEG-2000 filtering. , 0, , .		2
147	On the optimality of embedded deadzone scalar-quantizers for wavelet-based L-infinite-constrained image coding. , 0, , .		2
148	A new family of embedded multiple description scalar quantizers. , 0, , .		3
149	Robust Motion Vector Coding and Error Concealment in MCTF-Based Video Coding. , 0, , .		3
150	Complexity scalability in video coding based on in-band motion-compensated temporal filtering. , 0, , .		0
151	A wavelet-tree image coding system with efficient memory utilization. , 0, , .		6