Wesley Marcel De Neve

List of Publications by Year
in descending order

99 papers	1,367 citations	394421 19 h-index	395702 33 g-index
104 all docs	104 docs citations	104 times ranked	1213 citing authors

#	ARTICLE	IF	CITATIONS
1	MP-Net: Deep learning-based segmentation for fluorescence microscopy images of microplastics isolated from clams. PLoS ONE, 2022, 17, e0269449.	2.5	4
2	ToxDL: deep learning using primary structure and domain embeddings for assessing protein toxicity. Bioinformatics, 2021, 36, 5159-5168.	4.1	37
3	Investigating the significance of adversarial attacks and their relation to interpretability for radar-based human activity recognition systems. Computer Vision and Image Understanding, 2021, 202, 103111.	4.7	9
4	Developing a Segmentation Model for Microscopic Images of Microplastics Isolated from Clams. Lecture Notes in Computer Science, 2021, , 86-97.	1.3	2
5	Massively parallel interrogation of protein fragment secretability using SECRiFY reveals features influencing secretory system transit. Nature Communications, 2021, 12, 6414.	12.8	5
6	Indoor human activity recognition using high-dimensional sensors and deep neural networks. Neural Computing and Applications, 2020, 32, 12295-12309.	5.6	27
7	Item Measurement for Logistics-Oriented Belt Conveyor Systems Using a Scenario-Driven Approach and Automata-Based Control Design. , 2020, , .		3
8	Perturbation analysis of gradient-based adversarial attacks. Pattern Recognition Letters, 2020, 135, 313-320.	4.2	6
9	Medinoid: Computer-Aided Diagnosis and Localization of Glaucoma Using Deep Learning â€. Applied Sciences (Switzerland), 2019, 9, 3064.	2.5	25
10	Electrochromic Photodetectors: Toward Smarter Glasses and Nano Reflective Displays via an Electrolytic Mechanism. ACS Applied Materials & Interfaces, 2019, 11, 27997-28004.	8.0	11
11	Not All Adversarial Examples Require a Complex Defense: Identifying Over-optimized Adversarial Examples with IQR-based Logit Thresholding. , 2019, , .		0
12	Indoor Person Identification Using a Low-Power FMCW Radar. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 3941-3952.	6.3	172
13	AQUa: an adaptive framework for compression of sequencing quality scores with random access functionality. Bioinformatics, 2018, 34, 425-433.	4.1	5
14	Hybrid e-TextBooks as comprehensive interactive learning environments. Interactive Learning Environments, 2018, 26, 486-505.	6.4	12
15	On the application of reservoir computing networks for noisy image recognition. Neurocomputing, 2018, 277, 237-248.	5.9	53
16	Dual Rectified Linear Units (DReLUs): A replacement for tanh activation functions in Quasi-Recurrent Neural Networks. Pattern Recognition Letters, 2018, 116, 8-14.	4.2	38
17	SpliceRover: interpretable convolutional neural networks for improved splice site prediction. Bioinformatics, 2018, 34, 4180-4188.	4.1	90
18	TISRover: ConvNets learn biologically relevant features for effective translation initiation site prediction. International Journal of Data Mining and Bioinformatics, 2018, 20, 267.	0.1	2

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19	Effective and efficient human action recognition using dynamic frame skipping and trajectory rejection. Image and Vision Computing, 2017, 58, 76-85.	4.5	25
20	Indoor tracking of multiple persons with a 77 GHz MIMO FMCW radar. , 2017, , .		23
21	Unsupervised spectral sub-feature learning for hyperspectral image classification. International Journal of Remote Sensing, 2016, 37, 309-326.	2.9	10
22	Towards robust and reliable multimedia analysis through semantic integration of services. Multimedia Tools and Applications, 2016, 75, 14019-14038.	3.9	2
23	A digital-first authoring environment for enriched e-books using EPUB 3. Information Services and Use, 2014, 34, 259-268.	0.2	7
24	Towards block-based compression of genomic data with random access functionality. , 2014, , .		1
25	Visually weighted neighbor voting for image tag relevance learning. Multimedia Tools and Applications, 2013, 72, 1363.	3.9	10
26	Visitor-art interaction by motion path detection. , 2013, , .		0
27	Parallel deblocking filtering in H.264/AVC using multiple CPUs and GPUs. , 2012, , .		0
28	Video Copy Detection Using Inclined Video Tomography and Bag-of-Visual-Words. , 2012, , .		9
29	VITEQ: A generic framework for no-reference quality evaluation of video testimonials. , 2012, , .		0
30	Near-Duplicate Video Clip Detection Using Model-Free Semantic Concept Detection and Adaptive Semantic Distance Measurement. IEEE Transactions on Circuits and Systems for Video Technology, 2012, 22, 1174-1187.	8.3	15
31	Towards data-driven estimation of image tag relevance using visually similar and dissimilar folksonomy images. , 2012, , .		1
32	Contribution of Non-scrambled Chroma Information in Privacy-Protected Face Images to Privacy Leakage. Lecture Notes in Computer Science, 2012, , 453-467.	1.3	0
33	Privacy Protection in Video Surveillance Systems: Analysis of Subband-Adaptive Scrambling in JPEG XR. IEEE Transactions on Circuits and Systems for Video Technology, 2011, 21, 170-177.	8.3	67
34	Collaborative Face Recognition for Improved Face Annotation in Personal Photo Collections Shared on Online Social Networks. IEEE Transactions on Multimedia, 2011, 13, 14-28.	7.2	54
35	Bimodal fusion of low-level visual features and high-level semantic features for near-duplicate video clip detection. Signal Processing: Image Communication, 2011, 26, 612-627.	3.2	5
36	Parallel Deblocking Filtering in MPEG-4 AVC/H.264 on Massively Parallel Architectures. IEEE Transactions on Circuits and Systems for Video Technology, 2011, 21, 96-100.	8.3	32

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37	Improving image tag recommendation using favorite image context. , 2011, , .		11
38	Towards a better understanding of model-free semantic concept detection for annotation and near-duplicate video clip detection. , 2011, , .		2
39	Leveraging an image folksonomy and the Signature Quadratic Form Distance for semantic-based detection of near-duplicate video clips. , 2011, , .		2
40	Futuretech 2010- MUST 2010 Welcome Message from the Workshop Organizers. , 2010, , .		0
41	Format-independent and metadata-driven media resource adaptation using semantic web technologies. Multimedia Systems, 2010, 16, 85-104.	4.7	12
42	NinSuna: a fully integrated platform for format-independent multimedia content adaptation and delivery using Semantic Web technologies. Multimedia Tools and Applications, 2010, 46, 371-398.	3.9	19
43	Full-Reference Video Quality Metric for Fully Scalable and Mobile SVC Content. IEEE Transactions on Broadcasting, 2010, 56, 269-280.	3.2	51
44	MAP-based image tag recommendation using a visual folksonomy. Pattern Recognition Letters, 2010, 31, 976-982.	4.2	31
45	Tag refinement in an image folksonomy using visual similarity and tag co-occurrence statistics. Signal Processing: Image Communication, 2010, 25, 761-773.	3.2	23
46	Use of semantic features for filtering of malicious content in an IPTV environment. , 2010, , .		1
47	Exploiting collective knowledge in an image folksonomy for semantic-based near-duplicate video detection. , 2010, , .		3
48	Towards using semantic features for near-duplicate video detection. , 2010, , .		3
49	An automatic face indexing framework for actor-based video services in an IPTV environment. , 2010, , .		0
50	Image tag refinement along the &#x2018;what&#x2019; dimension using tag categorization and neighbor voting. , 2010, , .		8
51	Towards an automatic face indexing system for actor-based video services in an IPTV environment. IEEE Transactions on Consumer Electronics, 2010, 56, 147-155.	3.6	12
52	Automatic Face Annotation in Personal Photo Collections Using Context-Based Unsupervised Clustering and Face Information Fusion. IEEE Transactions on Circuits and Systems for Video Technology, 2010, 20, 1292-1309.	8.3	29
53	Semantic Concept Detection for User-Generated Video Content Using a Refined Image Folksonomy. Lecture Notes in Computer Science, 2010, , 511-521.	1.3	0
54	Near-Duplicate Video Detection Using Temporal Patterns of Semantic Concepts. , 2009, , .		8

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55	Home video management system with semantic information. , 2009, , .		0
56	Perceptual quality measurement for scalable video at low spatial resolution in mobile environments. Proceedings of SPIE, 2009, , .	0.8	1
57	Region-of-interest scrambling for scalable surveillance video using JPEG XR. , 2009, , .		10
58	Improved BSDL-based content adaptation for JPEG 2000 and HD Photo (JPEG XR). Signal Processing: Image Communication, 2009, 24, 452-467.	3.2	4
59	Face annotation for personal photos using collaborative face recognition in online social networks. , 2009, , .		6
60	Privacy Protection in Video Surveillance Systems Using Scalable Video Coding. , 2009, , .		28
61	Semantic adaptation of synchronized multimedia streams in a format-independent way. , 2009, , .		0
62	Semantic annotation of personal video content using an image folksonomy. , 2009, , .		7
63	An Objective Perceptual Quality-Based ADTE for Adapting Mobile SVC Video Content. IEICE Transactions on Information and Systems, 2009, E92-D, 93-96.	0.7	5
64	A Statistical and Iterative Method for Data Hiding in Palette-Based Images. Lecture Notes in Computer Science, 2009, , 170-183.	1.3	0
65	Semantic home video categorization. Proceedings of SPIE, 2009, , .	0.8	1
66	gBFlavor: a new tool for fast and automatic generation of generic bitstream syntax descriptions. Multimedia Tools and Applications, 2008, 40, 453-494.	3.9	3
67	A compressed-domain approach for shot boundary detection on H.264/AVC bit streams. Signal Processing: Image Communication, 2008, 23, 473-489.	3.2	21
68	MPEG-21-based scalable bitstream adaptation using medium grain scalability. , 2008, , .		5
69	NinSuna: A Format-Independent Multimedia Content Adaptation Platform Based on Semantic Web Technologies. , 2008, , .		2
70	Using Placeholder Slices and MPEG-21 BSDL for ROI Extraction in H.264/AVC FMO-Encoded Bitstreams. Communications in Computer and Information Science, 2008, , 173-185.	0.5	0
71	Analysis of BSDL-based content adaptation for JPEG 2000 and HD Photo (JPEG XR). , 2008, , .		0
72	XML-driven Exploitation of Combined Scalability in Scalable H.264/AVC Bitstreams. , 2007, , .		0

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73	Performance evaluation of H.264/AVC decoding and visualization using the GPU. , 2007, , .		5
74	XML-based Exploitation of Region of Interest Scalability in Scalable Video Coding. , 2007, , .		1
75	Enhanced Shot-Based Video Adaptation using MPEG-21 generic Bitstream Syntax Schema. , 2007, , .		10
76	MuMiVA: A Multimedia Delivery Platform Using Format-Agnostic, XML-Driven Content Adaptation. , 2007, , .		5
77	Automatic generation of generic Bitstream Syntax Descriptions applied to H.264/AVC SVC encoded video streams. , 2007, , .		0
78	XML-driven Bitrate Adaptation of SVC Bitstreams. , 2007, , .		5
79	An optimized MPEG-21 BSDL framework for the adaptation of scalable bitstreams. Journal of Visual Communication and Image Representation, 2007, 18, 217-239.	2.8	15
80	Motion Compensation and Reconstruction of H.264/AVC Video Bitstreams using the GPU. , 2007, , .		5
81	Analysis of Prediction Mode Decision in Spatial Enhancement Layers in H.264/AVC SVC. Lecture Notes in Computer Science, 2007, , 848-855.	1.3	7
82	Predictable Processing of Multimedia Content, Using MPEG-21 Digital Item Processing. Lecture Notes in Computer Science, 2007, , 549-558.	1.3	1
83	Shot Boundary Detection for H.264/AVC Bitstreams with Frames Containing Multiple Types of Slices. Lecture Notes in Computer Science, 2007, , 177-186.	1.3	3
84	Exploitation of Combined Scalability in Scalable H.264/AVC Bitstreams by Using an MPEG-21 XML-Driven Framework. Lecture Notes in Computer Science, 2007, , 699-710.	1.3	0
85	Efficient Context Management in Context-Aware Environments. , 2007, , .		0
86	Performance Evaluation of Adaptive Residual Interpolation, a Tool for Inter-layer Prediction in H.264/AVC Scalable Video Coding. Lecture Notes in Computer Science, 2007, , 740-749.	1.3	4
87	Rate-distortion performance of H.264/AVC compared to state-of-the-art video codecs. IEEE Transactions on Circuits and Systems for Video Technology, 2006, 16, 134-140.	8.3	35
88	MPEG-21 bitstream syntax descriptions for scalable video codecs. Multimedia Systems, 2006, 11, 403-421.	4.7	16
89	Flexible macroblock ordering in H.264/AVC. Journal of Visual Communication and Image Representation, 2006, 17, 358-375.	2.8	103
90	BFlavor: A harmonized approach to media resource adaptation, inspired by MPEG-21 BSDL and XFlavor. Signal Processing: Image Communication, 2006, 21, 862-889.	3.2	14

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91	A Real-Time Content Adaptation Framework for Exploiting ROI Scalability in H.264/AVC. Lecture Notes in Computer Science, 2006, , 442-453.	1.3	21
92	A Real-Time XML-Based Adaptation System for Scalable Video Formats. Lecture Notes in Computer Science, 2006, , 339-348.	1.3	1
93	Real-Time BSD-Driven Adaptation Along the Temporal Axis of H.264/AVC Bitstreams. Lecture Notes in Computer Science, 2006, , 131-140.	1.3	0
94	Comparison of prediction schemes with motion information reuse for low complexity spatial scalability. , 2005, , .		3
95	GPU-assisted decoding of video samples represented in the YCoCg-R color space. , 2005, , .		9
96	Assessment of the compression efficiency of the MPEG-4 AVC specification. , 2004, , .		1
97	A performance evaluation of MPEG-21 BSDL in the context of H.264/AVC. , 2004, , .		4
98	Advanced mobile multimedia applications: using MPEG-21 and time-dependent metadata.. , 2003, , .		1
99	Generating MPEG-21 BSDL Descriptions Using Context-Related Attributes. , 0, , .		6