

Jenny Benois-Pineau

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7496646/publications.pdf>

Version: 2024-02-01

177
papers

1,905
citations

361045

20
h-index

433756

31
g-index

188
all docs

188
docs citations

188
times ranked

1498
citing authors

#	ARTICLE	IF	CITATIONS
1	Classification of Alzheimer's disease subjects from MRI using hippocampal visual features. Multimedia Tools and Applications, 2015, 74, 1249-1266.	2.6	100
2	Recognition of Alzheimer's disease and Mild Cognitive Impairment with multimodal image-derived biomarkers and Multiple Kernel Learning. Neurocomputing, 2017, 220, 98-110.	3.5	82
3	Classification of Alzheimer Disease on Imaging Modalities with Deep CNNs Using Cross-Modal Transfer Learning. , 2018, , .		79
4	Alzheimer's disease diagnosis on structural MR images using circular harmonic functions descriptors on hippocampus and posterior cingulate cortex. Computerized Medical Imaging and Graphics, 2015, 44, 13-25.	3.5	77
5	Visual vs internal attention mechanisms in deep neural networks for image classification and object detection. Pattern Recognition, 2022, 123, 108411.	5.1	56
6	Improving Alzheimer's stage categorization with Convolutional Neural Network using transfer learning and different magnetic resonance imaging modalities. Heliyon, 2020, 6, e05652.	1.4	49
7	Hierarchical Hidden Markov Model in detecting activities of daily living in wearable videos for studies of dementia. Multimedia Tools and Applications, 2014, 69, 743-771.	2.6	41
8	Transfer learning with deep networks for saliency prediction in natural video. , 2016, , .		39
9	FuseMe. , 2017, , .		39
10	Reachy, a 3D-Printed Human-Like Robotic Arm as a Testbed for Human-Robot Control Strategies. Frontiers in Neurorobotics, 2019, 13, 65.	1.6	37
11	Fine grained sport action recognition with Twin spatio-temporal convolutional neural networks. Multimedia Tools and Applications, 2020, 79, 20429-20447.	2.6	36
12	Spatio-temporal segmentation of image sequences for object-oriented low bit-rate image coding. Signal Processing: Image Communication, 1996, 8, 513-543.	1.8	34
13	Active contours approach to object tracking in image sequences with complex background. Pattern Recognition Letters, 1995, 16, 171-178.	2.6	31
14	Feature-based brain MRI retrieval for Alzheimer disease diagnosis. , 2012, , .		31
15	Classification of sMRI for AD Diagnosis with Convolutional Neuronal Networks: A Pilot 2-D+ ϵ Study on ADNI. Lecture Notes in Computer Science, 2017, , 690-701.	1.0	31
16	Retrieval of objects in video by similarity based on graph matching. Pattern Recognition Letters, 2007, 28, 939-949.	2.6	30
17	Semantic Event Fusion of Different Visual Modality Concepts for Activity Recognition. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2016, 38, 1598-1611.	9.7	30
18	Multi-modal activity recognition from egocentric vision, semantic enrichment and lifelogging applications for the care of dementia. Journal of Visual Communication and Image Representation, 2018, 51, 169-190.	1.7	30

#	ARTICLE	IF	CITATIONS
19	Perceptually-guided deep neural networks for ego-action prediction: Object grasping. Pattern Recognition, 2019, 88, 223-235.	5.1	28
20	The IMMED project. , 2010, , .		27
21	Perceptual modeling in the problem of active object recognition in visual scenes. Pattern Recognition, 2016, 56, 129-141.	5.1	26
22	Improved cardiac magnetic resonance thermometry and dosimetry for monitoring lesion formation during catheter ablation. Magnetic Resonance in Medicine, 2017, 77, 673-683.	1.9	26
23	Identifying Surgical Instruments in Laparoscopy Using Deep Learning Instance Segmentation. , 2019, , .		26
24	Computational Techniques for Eye Movements Analysis towards Supporting Early Diagnosis of Alzheimer's Disease: A Review. Computational and Mathematical Methods in Medicine, 2018, 2018, 1-13.	0.7	25
25	Architectural style classification of Mexican historical buildings using deep convolutional neural networks and sparse features. Journal of Electronic Imaging, 2016, 26, 011016.	0.5	24
26	Multiple Moving Object Detection for Fast Video Content Description in Compressed Domain. Eurasip Journal on Advances in Signal Processing, 2007, 2008, .	1.0	23
27	Saliency Driven Object recognition in egocentric videos with deep CNN: toward application in assistance to Neuroprostheses. Computer Vision and Image Understanding, 2017, 164, 82-91.	3.0	22
28	Human Daily Activities Indexing in Videos from Wearable Cameras for Monitoring of Patients with Dementia Diseases. , 2010, , .		21
29	Classification of sMRI for Alzheimer's disease Diagnosis with CNN. , 2017, , .		21
30	Segmentation-based multi-class semantic object detection. Multimedia Tools and Applications, 2012, 60, 305-326.	2.6	20
31	Fusion of Multiple Visual Cues for Visual Saliency Extraction from Wearable Camera Settings with Strong Motion. Lecture Notes in Computer Science, 2012, , 436-445.	1.0	19
32	Detection of human faces in color image sequences with arbitrary motions for very low bit-rate videophone coding. Pattern Recognition Letters, 1997, 18, 1503-1518.	2.6	18
33	A New Method for Region-Based Depth Ordering in a Video Sequence: Application to Frame Interpolation. Journal of Visual Communication and Image Representation, 2002, 13, 363-385.	1.7	18
34	Detection of moving foreground objects in videos with strong camera motion. Pattern Analysis and Applications, 2011, 14, 311-328.	3.1	18
35	ChaboNet : Design of a deep CNN for prediction of visual saliency in natural video. Journal of Visual Communication and Image Representation, 2019, 60, 79-93.	1.7	18
36	Fast Action Localization in Large-Scale Video Archives. IEEE Transactions on Circuits and Systems for Video Technology, 2016, 26, 1917-1930.	5.6	17

#	ARTICLE	IF	CITATIONS
37	Connoisseur. , 2017, , .		17
38	BG-3DM2F: Bidirectional gated 3D multi-scale feature fusion for Alzheimer's disease diagnosis. Multimedia Tools and Applications, 2022, 81, 10743-10776.	2.6	17
39	Modeling instrumental activities of daily living in egocentric vision as sequences of active objects and context for alzheimer disease research. , 2013, , .		16
40	Comparison of Shot Boundary Detectors. , 0, , .		15
41	Hierarchical segmentation of video sequences for content manipulation and adaptive coding. Signal Processing, 1998, 66, 181-201.	2.1	14
42	Gaussian mixture classification for moving object detection in video surveillance environment. , 2005, , .		14
43	Wearable video monitoring of people with age Dementia : Video indexing at the service of helthcare. , 2008, , .		14
44	A metric for no-reference video quality assessment for HD TV delivery based on saliency maps. , 2011, , .		14
45	Robust Real-Time-Constrained Estimation of Respiratory Motion for Interventional MRI on Mobile Organs. IEEE Transactions on Information Technology in Biomedicine, 2012, 16, 365-374.	3.6	14
46	Sport Action Recognition with Siamese Spatio-Temporal CNNs: Application to Table Tennis. , 2018, , .		14
47	Goal-oriented top-down probabilistic visual attention model for recognition of manipulated objects in egocentric videos. Signal Processing: Image Communication, 2015, 39, 418-431.	1.8	13
48	Saliency-based selection of visual content for deep convolutional neural networks. Multimedia Tools and Applications, 2019, 78, 9553-9576.	2.6	13
49	Shoulder kinematics plus contextual target information enable control of multiple distal joints of a simulated prosthetic arm and hand. Journal of NeuroEngineering and Rehabilitation, 2021, 18, 3.	2.4	13
50	Scalable object-based video retrieval in HD video databases. Signal Processing: Image Communication, 2010, 25, 450-465.	1.8	12
51	Prediction of visual attention with deep CNN on artificially degraded videos for studies of attention of patients with Dementia. Multimedia Tools and Applications, 2017, 76, 22527-22546.	2.6	12
52	Image segmentation by region-contour cooperation for image coding. , 0, , .		10
53	Activities of daily living indexing by hierarchical HMM for dementia diagnostics. , 2011, , .		10
54	Bag-of-bags of words irregular graph pyramids vs spatial pyramid matching for image retrieval. , 2014, , .		10

#	ARTICLE	IF	CITATIONS
55	Object-Based Indexing of Compressed Video Content: From SD to HD Video. , 2007, , .		9
56	Significance Delta Reasoning with p-Adic Neural Networks: Application to Shot Change Detection in Video. Computer Journal, 2010, 53, 417-431.	1.5	9
57	Early Alzheimer disease detection with bag-of-visual-words and hybrid fusion on structural MRI. , 2013, , .		9
58	Recognition of Alzheimer's Disease on sMRI based on 3D Multi-Scale CNN Features and a Gated Recurrent Fusion Unit. , 2019, , .		9
59	Falls Detection and Prevention Systems in Home Care for Older Adults: Myth or Reality?. JMIR Aging, 2021, 4, e29744.	1.4	9
60	Tracking of Objects in Video Scenes with Time Varying Content. Eurasip Journal on Advances in Signal Processing, 2002, 2002, 1.	1.0	8
61	Super-resolution mosaicing from MPEG compressed video. Signal Processing: Image Communication, 2007, 22, 845-865.	1.8	8
62	Early and Late Fusion of Temporal Information for Classification of Surgical Actions in Laparoscopic Gynecology. , 2018, , .		8
63	Detection of Risky Situations for Frail Adults With Hybrid Neural Networks on Multimodal Health Data. IEEE MultiMedia, 2022, 29, 7-17.	1.5	8
64	Robust segmentation of moving image sequences. , 0, , .		7
65	Real-Time and Distributed AV Content Analysis System for Consumer Electronics Networks. , 0, , .		7
66	Scene similarity measure for video content segmentation in the framework of a rough indexing paradigm. International Journal of Intelligent Systems, 2006, 21, 765-783.	3.3	7
67	Weighted-MSE based on saliency map for assessing video quality of H.264 video streams. , 2011, , .		7
68	Geometrical cues in visual saliency models for active object recognition in egocentric videos. Multimedia Tools and Applications, 2015, 74, 10077-10095.	2.6	7
69	Optimal Choice of Motion Estimation Methods for Fine-Grained Action Classification with 3D Convolutional Networks. , 2019, , .		7
70	Forward-backward visual saliency propagation in Deep NNs vs internal attentional mechanisms. , 2019, , .		7
71	Content Based Image Retrieval Using Bag-Of-Regions. Lecture Notes in Computer Science, 2012, , 507-517.	1.0	7
72	Rushes summarization by IRIM consortium. , 2008, , .		7

#	ARTICLE	IF	CITATIONS
73	<title>Extraction of foreground objects from an MPEG2 video stream in rough-indexing framework</title>. , 2003, 5307, 50.		6
74	Knowledge-Based Supervised Learning Methods in a Classical Problem of Video Object Tracking. , 2006, , .		6
75	DAG-based visual interfaces for navigation in indexed video content. Multimedia Tools and Applications, 2006, 31, 51-72.	2.6	6
76	Search of objects of interest in videos. , 2012, , .		6
77	Multi-layer Local Graph Words for Object Recognition. Lecture Notes in Computer Science, 2012, , 29-39.	1.0	6
78	Dominant color correlogram descriptor for content-based image retrieval. , 2015, , .		6
79	Image annotation for Mexican buildings database. , 2016, , .		6
80	Multi-sensing of fragile persons for risk situation detection: devices, methods, challenges. , 2019, , .		6
81	Multimodal Sensor Data Analysis forÂDetection of Risk Situations of Fragile People in @home Environments. Lecture Notes in Computer Science, 2021, , 342-353.	1.0	6
82	The COST292 experimental framework for rushes summarization task in TRECVID 2008. , 2008, , .		6
83	A Hierarchical Classification System for the Detection of Covid-19 from Chest X-Ray Images. , 2021, , .		6
84	<title>Dominant motion estimation and video partitioning with a 1D signal approach</title>. , 1998, 3527, 283.		5
85	PCA-Based Image Registration : Application to On-Line MR Temperature Monitoring of Moving Tissues. , 2007, , .		5
86	A multi-resolution particle filter tracking in a multi-camera environment. , 2009, , .		5
87	Clustering of scene repeats for essential rushes preview. , 2009, , .		5
88	Local object-based super-resolution mosaicing from low-resolution video. Signal Processing, 2011, 91, 1771-1780.	2.1	5
89	Magnetic Resonance Imaging guided cardiac radiofrequency ablation. Irbm, 2015, 36, 86-91.	3.7	5
90	A scalable summary generation method based on cross-modal consensus clustering and OLAP cube modeling. Multimedia Tools and Applications, 2016, 75, 9073-9094.	2.6	5

#	ARTICLE	IF	CITATIONS
91	Introduction of Explicit Visual Saliency in Training of Deep CNNs: Application to Architectural Styles Classification. , 2018, , .		5
92	FPGA-based SIFT implementation for wearable computing. , 2019, , .		5
93	Fine-Grained Action Detection and Classification in Table Tennis with Siamese Spatio-Temporal Convolutional Neural Network. , 2019, , .		5
94	Multi Layered Feature Explanation Method for Convolutional Neural Networks. Lecture Notes in Computer Science, 2022, , 603-614.	1.0	5
95	The ARGOS campaign: Evaluation of video analysis and indexing tools. Signal Processing: Image Communication, 2007, 22, 705-717.	1.8	4
96	Scalable indexing of HD Video. , 2008, , .		4
97	No-reference video quality assessment of H.264 video streams based on semantic saliency maps. , 2012, , .		4
98	Recognition of Activities of Daily Living in natural “at home” scenario for assessment of Alzheimer's disease patients. , 2015, , .		4
99	Recognition of Instrumental Activities of Daily Living in Egocentric Video for Activity Monitoring of Patients with Dementia. , 2015, , 161-178.		4
100	Segmentation of left ventricle on dynamic MRI sequences for blood flow cancellation in Thermotherapy. Signal Processing: Image Communication, 2017, 59, 37-49.	1.8	4
101	Deep Learning in Mining of Visual Content. SpringerBriefs in Computer Science, 2020, , .	0.2	4
102	3D attention mechanism for fine-grained classification of table tennis strokes using a Twin Spatio-Temporal Convolutional Neural Networks. , 2021, , .		4
103	Implementation of Scale Invariant Feature Transform detector on FPGA for low power wearable devices for prostheses control. International Journal of Circuit Theory and Applications, 2021, 49, 2255-2273.	1.3	4
104	Fusion of Multiple Visual Cues for Object Recognition in Videos. Advances in Computer Vision and Pattern Recognition, 2014, , 79-107.	0.9	4
105	Grouping video shots into scenes based on 1D mosaic descriptors. , 0, , .		3
106	Full scheme of MPEG4-like codec based on wavelet transform. , 2002, , .		3
107	The Argos Campaign: Evaluation of Video Analysis Tools. , 2007, , .		3
108	Multi-object particle filter tracking with automatic event analysis. , 2010, , .		3

#	ARTICLE	IF	CITATIONS
109	Real time constrained motion estimation for ECG-gated cardiac MRI. , 2010, , .		3
110	A multi-object particle filter tracking with a dual consistency check: Application to mid-level concept detection in videos. , 2010, , .		3
111	Preface for the special issue of MTAP following CBMI 2011. Multimedia Tools and Applications, 2013, 62, 1-4.	2.6	3
112	Diffusion Tensor Imaging retrieval for Alzheimer's disease diagnosis. , 2014, , .		3
113	Comparative study of visual saliency maps in the problem of classification of architectural images with Deep CNNs. , 2018, , .		3
114	Perceptually-guided Understanding of Egocentric Video Content. , 2018, , .		3
115	A GRU Neural Network with attention mechanism for detection of risk situations on multimodal lifelog data. , 2021, , .		3
116	Detection of Semantic Risk Situations in Lifelog Data for Improving Life of Frail People. , 2020, , .		3
117	<title>Region-based coding scheme for the transmission of video sequences via channels of varying very low bit rate</title>. , 1997, , .		2
118	Super-resolution mosaicing from MPEG compressed video. , 2005, , .		2
119	Use of Motion Information in Super-Resolution Mosaicing. , 2006, , .		2
120	Signal processing: Image communication, special issue on content-based multimedia indexing and retrieval. Signal Processing: Image Communication, 2007, 22, 605-606.	1.8	2
121	HD motion estimation in a wavelet pyramid in JPEG2000 context. , 2008, , .		2
122	ESPI Image Indexing and Similarity Search in Radon Transform Domain. , 2009, , .		2
123	Multi-resolution tracking of a non-rigid target with particle filters for low and variable frame-rate videos. , 2009, , .		2
124	Motion Estimation in Colour Image Sequences. , 2013, , 377-395.		2
125	Adaptive rejection of outliers for robust motion compensation in cardiac MR-thermometry. , 2013, , .		2
126	A Comparative Study of Irregular Pyramid Matching in Bag-of-Bags of Words Model for Image Retrieval. Lecture Notes in Computer Science, 2014, , 539-548.	1.0	2

#	ARTICLE	IF	CITATIONS
127	Geometrical Cues in Visual Saliency Models for Active Object Recognition in Egocentric Videos. , 2014, , .		2
128	Scalable video summarization of cultural video documents in cross-media space based on data cube approach. , 2014, , .		2
129	Fast cascaded action localization in video using frame alignment. , 2014, , .		2
130	Scalable action localization with kernel-space hashing. , 2015, , .		2
131	Guest editorial: Content-Based Multimedia Indexing. Multimedia Tools and Applications, 2015, 74, 1137-1142.	2.6	2
132	Prediction of visual saliency in video with deep CNNs. Proceedings of SPIE, 2016, , .	0.8	2
133	Deep Saliency: Prediction of Interestingness in Video with CNN. , 2017, , 43-74.		2
134	Explaining 3D CNNs for Alzheimerâ€™s Disease Classification on sMRI Images with Multiple ROIs. , 2021, , .		2
135	PCA-Based Magnetic Field Modeling : Application for On-Line MR Temperature Monitoring. , 2007, 10, 411-419.		2
136	INTERACTIVE FINE OBJECT-BASED SEGMENTATION OF GENERIC VIDEO SCENES FOR OBJECT-BASED INDEXING. , 2003, , .		2
137	Organizing Cultural Heritage with Deep Features. , 2019, , .		2
138	Moving away from narrow-scope solutions in multimedia content analysis. , 2005, , .		2
139	Scalable Indexing of HD Video. Signals and Communication Technology, 2010, , 497-524.	0.4	2
140	Instrument Recognition in Laparoscopy for Technical Skill Assessment. Lecture Notes in Computer Science, 2020, , 589-600.	1.0	2
141	<title>Region-based time-varying image coding at low bit rate with a high visual quality</title>. , 1995, , .		1
142	<title>Region-based representation of video sequences with uniform background motion for a content-based image coding</title>. , 1996, , .		1
143	Indexing of compressed video: Methods, challenges, applications. , 2010, , .		1
144	Object recognition with top-down visual attention modeling for behavioral studies. , 2015, , .		1

#	ARTICLE	IF	CITATIONS
145	Prediction of visual attention with Deep CNN for studies of neurodegenerative diseases. , 2016, , .		1
146	Visual Content Indexing and Retrieval with Psycho-Visual Models. , 2017, , 1-10.		1
147	Semi-Automatic Annotation with Predicted Visual Saliency Maps for Object Recognition in Wearable Video. , 2017, , .		1
148	Extraction of saliency in images and video: Problems, methods and applications. A survey. , 2017, , .		1
149	Increasing Training Stability for Deep CNNs. , 2018, , .		1
150	Dropping Activations in Convolutional Neural Networks with Visual Attention Maps. , 2019, , .		1
151	A Multi-Resolution Particle Filter Tracking with a Dual Consistency Check for Model Update in a Multi-Camera Environment. Lecture Notes in Electrical Engineering, 2013, , 71-90.	0.3	1
152	Introducing Domain Knowledge. SpringerBriefs in Computer Science, 2020, , 87-97.	0.2	1
153	Array computing based system for visual servoing of neuroprosthesis of upper limbs. , 2021, , .		1
154	Coding of structure in the region-based coder as a problem of optimization on graphs. , 1996, , .		0
155	Tracking of hierarchical active meshes for object based manipulation of video content. , 0, , .		0
156	<title>Human detection and tracking for video surveillance applications in a low-density environment</title>. , 2003, 5150, 51.		0
157	<title>Intuitive color-based visualization of multimedia content as large graphs</title>. , 2004, , .		0
158	Object-Based Video Indexing. , 2005, , 163-201.		0
159	ARGOS: French evaluation campaign for benchmarking of video content analysis methods. , 2007, , .		0
160	Welcome to CBMI 2007 and to Bordeaux!. , 2007, , .		0
161	Multidimensional clustering index for image retrieval. , 2008, , .		0
162	Special Session: Scalable Video Indexing. , 2009, , .		0

#	ARTICLE	IF	CITATIONS
163	A new criterion for motion estimation assessment for MR-thermometry applications. , 2010, , .		0
164	Preface for the special issue of MTAP following CBMI 2010. Multimedia Tools and Applications, 2012, 60, 257-260.	2.6	0
165	ACM MM MIIRH 2013. , 2013, , .		0
166	Preface to the special issue on Content-Based Multimedia Indexing. Multimedia Tools and Applications, 2014, 69, 423-427.	2.6	0
167	Video annotations of Mexican nature in a collaborative environment. Proceedings of SPIE, 2015, , .	0.8	0
168	Features-based approach for Alzheimer's disease diagnosis using visual pattern of water diffusion in tensor diffusion imaging. , 2015, , .		0
169	Segmentation of left ventricle on MRI sequences for blood flow cancelation in thermotherapy. , 2015, , .		0
170	The Mex-Culture Multimedia platform: Preservation and dissemination of the Mexican Culture. , 2015, , .		0
171	Scalability issues in visual information retrieval. SpringerBriefs in Computer Science, 2012, , 65-81.	0.2	0
172	3D Convolutional Networks for Action Recognition: Application to Sport Gesture Recognition. , 2021, , 199-229.		0
173	Supervised Learning Problem Formulation. SpringerBriefs in Computer Science, 2020, , 5-11.	0.2	0
174	Case Study for Digital Cultural Content Mining. SpringerBriefs in Computer Science, 2020, , 71-85.	0.2	0
175	Dynamic Content Mining. SpringerBriefs in Computer Science, 2020, , 59-69.	0.2	0
176	Hybrid FPGAâ€“CPU-Based Architecture for Object Recognition in Visual Servoing of Arm Prosthesis. Journal of Imaging, 2022, 8, 44.	1.7	0
177	A Hybrid Transformer Network for Detection of Risk Situations on Multimodal Life-Log Health Data. , 2022, , .		0