

Jenny Benois-Pineau

List of Publications by Year in descending order

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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	Visual vs internal attention mechanisms in deep neural networks for image classification and object detection. Pattern Recognition, 2022, 123, 108411.	5.1	56
2	Detection of Risky Situations for Frail Adults With Hybrid Neural Networks on Multimodal Health Data. IEEE MultiMedia, 2022, 29, 7-17.	1.5	8
3	Hybrid FPGAâ€“CPU-Based Architecture for Object Recognition in Visual Servoing of Arm Prosthesis. Journal of Imaging, 2022, 8, 44.	1.7	0
4	BG-3DM2F: Bidirectional gated 3D multi-scale feature fusion for Alzheimerâ€™s disease diagnosis. Multimedia Tools and Applications, 2022, 81, 10743-10776.	2.6	17
5	Multi Layered Feature Explanation Method for Convolutional Neural Networks. Lecture Notes in Computer Science, 2022, , 603-614.	1.0	5
6	A Hybrid Transformer Network for Detection of Risk Situations on Multimodal Life-Log Health Data. , 2022, , .		0
7	3D attention mechanism for fine-grained classification of table tennis strokes using a Twin Spatio-Temporal Convolutional Neural Networks. , 2021, , .		4
8	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
9	Falls Detection and Prevention Systems in Home Care for Older Adults: Myth or Reality?. JMIR Aging, 2021, 4, e29744.	1.4	9
10	Implementation of Scale Invariant Feature Transform detector on FPGA for lowâ€“power wearable devices for prostheses control. International Journal of Circuit Theory and Applications, 2021, 49, 2255-2273.	1.3	4
11	A GRU Neural Network with attention mechanism for detection of risk situations on multimodal lifelog data. , 2021, , .		3
12	Explaining 3D CNNs for Alzheimerâ€™s Disease Classification on sMRI Images with Multiple ROIs. , 2021, , .		2
13	Multimodal Sensor Data Analysis for Detection of Risk Situations of Fragile People in @home Environments. Lecture Notes in Computer Science, 2021, , 342-353.	1.0	6
14	3D Convolutional Networks for Action Recognition: Application to Sport Gesture Recognition. , 2021, , 199-229.		0
15	Array computing based system for visual servoing of neuroprosthesis of upper limbs. , 2021, , .		1
16	A Hierarchical Classification System for the Detection of Covid-19 from Chest X-Ray Images. , 2021, , .		6
17	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
18	Deep Learning in Mining of Visual Content. SpringerBriefs in Computer Science, 2020, , .	0.2	4

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19	Fine grained sport action recognition with Twin spatio-temporal convolutional neural networks. Multimedia Tools and Applications, 2020, 79, 20429-20447.	2.6	36
20	Detection of Semantic Risk Situations in Lifelog Data for Improving Life of Frail People. , 2020, , .		3
21	Instrument Recognition in Laparoscopy for Technical Skill Assessment. Lecture Notes in Computer Science, 2020, , 589-600.	1.0	2
22	Supervised Learning Problem Formulation. SpringerBriefs in Computer Science, 2020, , 5-11.	0.2	0
23	Case Study for Digital Cultural Content Mining. SpringerBriefs in Computer Science, 2020, , 71-85.	0.2	0
24	Introducing Domain Knowledge. SpringerBriefs in Computer Science, 2020, , 87-97.	0.2	1
25	Dynamic Content Mining. SpringerBriefs in Computer Science, 2020, , 59-69.	0.2	0
26	FPGA-based SIFT implementation for wearable computing. , 2019, , .		5
27	Identifying Surgical Instruments in Laparoscopy Using Deep Learning Instance Segmentation. , 2019, , .		26
28	Dropping Activations in Convolutional Neural Networks with Visual Attention Maps. , 2019, , .		1
29	Recognition of Alzheimer's Disease on sMRI based on 3D Multi-Scale CNN Features and a Gated Recurrent Fusion Unit. , 2019, , .		9
30	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
31	Fine-Grained Action Detection and Classification in Table Tennis with Siamese Spatio-Temporal Convolutional Neural Network. , 2019, , .		5
32	Optimal Choice of Motion Estimation Methods for Fine-Grained Action Classification with 3D Convolutional Networks. , 2019, , .		7
33	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
34	Multi-sensing of fragile persons for risk situation detection: devices, methods, challenges. , 2019, , .		6
35	Forward-backward visual saliency propagation in Deep NNs vs internal attentional mechanisms. , 2019, , .		7
36	Saliency-based selection of visual content for deep convolutional neural networks. Multimedia Tools and Applications, 2019, 78, 9553-9576.	2.6	13

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37	Perceptually-guided deep neural networks for ego-action prediction: Object grasping. Pattern Recognition, 2019, 88, 223-235.	5.1	28
38	Organizing Cultural Heritage with Deep Features. , 2019, , .		2
39	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
40	Introduction of Explicit Visual Saliency in Training of Deep CNNs: Application to Architectural Styles Classification. , 2018, , .		5
41	Sport Action Recognition with Siamese Spatio-Temporal CNNs: Application to Table Tennis. , 2018, , .		14
42	Comparative study of visual saliency maps in the problem of classification of architectural images with Deep CNNs. , 2018, , .		3
43	Increasing Training Stability for Deep CNNs. , 2018, , .		1
44	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
45	Perceptually-guided Understanding of Egocentric Video Content. , 2018, , .		3
46	Classification of Alzheimer Disease on Imaging Modalities with Deep CNNs Using Cross-Modal Transfer Learning. , 2018, , .		79
47	Early and Late Fusion of Temporal Information for Classification of Surgical Actions in Laparoscopic Gynecology. , 2018, , .		8
48	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
49	Classification of sMRI for AD Diagnosis with Convolutional Neuronal Networks: A Pilot 2-D+ Study on ADNI. Lecture Notes in Computer Science, 2017, , 690-701.	1.0	31
50	Segmentation of left ventricle on dynamic MRI sequences for blood flow cancellation in Thermo-therapy. Signal Processing: Image Communication, 2017, 59, 37-49.	1.8	4
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	Classification of sMRI for Alzheimer's disease Diagnosis with CNN. , 2017, , .		21
53	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
54	Visual Content Indexing and Retrieval with Psycho-Visual Models. , 2017, , 1-10.		1

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55	FuseMe. , 2017, , .		39
56	Connoisseur. , 2017, , .		17
57	Deep Saliency: Prediction of Interestingness in Video with CNN. , 2017, , 43-74.		2
58	Semi-Automatic Annotation with Predicted Visual Saliency Maps for Object Recognition in Wearable Video. , 2017, , .		1
59	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
60	Extraction of saliency in images and video: Problems, methods and applications. A survey. , 2017, , .		1
61	Prediction of visual attention with Deep CNN for studies of neurodegenerative diseases. , 2016, , .		1
62	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
63	Transfer learning with deep networks for saliency prediction in natural video. , 2016, , .		39
64	Image annotation for Mexican buildings database. , 2016, , .		6
65	Prediction of visual saliency in video with deep CNNs. Proceedings of SPIE, 2016, , .	0.8	2
66	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
67	Perceptual modeling in the problem of active object recognition in visual scenes. Pattern Recognition, 2016, 56, 129-141.	5.1	26
68	Fast Action Localization in Large-Scale Video Archives. IEEE Transactions on Circuits and Systems for Video Technology, 2016, 26, 1917-1930.	5.6	17
69	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
70	Geometrical cues in visual saliency models for active object recognition in egocentric videos. Multimedia Tools and Applications, 2015, 74, 10077-10095.	2.6	7
71	Video annotations of Mexican nature in a collaborative environment. Proceedings of SPIE, 2015, , .	0.8	0
72	Object recognition with top-down visual attention modeling for behavioral studies. , 2015, , .		1

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73	Scalable action localization with kernel-space hashing. , 2015, , .		2
74	Features-based approach for Alzheimer's disease diagnosis using visual pattern of water diffusion in tensor diffusion imaging. , 2015, , .		0
75	Segmentation of left ventricle on MRI sequences for blood flow cancelation in thermotherapy. , 2015, , .		0
76	Guest editorial: Content-Based Multimedia Indexing. Multimedia Tools and Applications, 2015, 74, 1137-1142.	2.6	2
77	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
78	Magnetic Resonance Imaging guided cardiac radiofrequency ablation. Irbm, 2015, 36, 86-91.	3.7	5
79	Dominant color correlogram descriptor for content-based image retrieval. , 2015, , .		6
80	Recognition of Activities of Daily Living in natural “at home” scenario for assessment of Alzheimer's disease patients. , 2015, , .		4
81	The Mex-Culture Multimedia platform: Preservation and dissemination of the Mexican Culture. , 2015, , .		0
82	Recognition of Instrumental Activities of Daily Living in Egocentric Video for Activity Monitoring of Patients with Dementia. , 2015, , 161-178.		4
83	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
84	Classification of Alzheimer’s disease subjects from MRI using hippocampal visual features. Multimedia Tools and Applications, 2015, 74, 1249-1266.	2.6	100
85	Bag-of-bags of words irregular graph pyramids vs spatial pyramid matching for image retrieval. , 2014, , .		10
86	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
87	Geometrical Cues in Visual Saliency Models for Active Object Recognition in Egocentric Videos. , 2014, , .		2
88	Diffusion Tensor Imaging retrieval for Alzheimer's disease diagnosis. , 2014, , .		3
89	Scalable video summarization of cultural video documents in cross-media space based on data cube approach. , 2014, , .		2
90	Preface to the special issue on Content-Based Multimedia Indexing. Multimedia Tools and Applications, 2014, 69, 423-427.	2.6	0

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91	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
92	Fast cascaded action localization in video using frame alignment. , 2014, , .		2
93	Fusion of Multiple Visual Cues for Object Recognition in Videos. Advances in Computer Vision and Pattern Recognition, 2014, , 79-107.	0.9	4
94	Early Alzheimer disease detection with bag-of-visual-words and hybrid fusion on structural MRI. , 2013, , .		9
95	Preface for the special issue of MTAP following CBMI 2011. Multimedia Tools and Applications, 2013, 62, 1-4.	2.6	3
96	Motion Estimation in Colour Image Sequences. , 2013, , 377-395.		2
97	Modeling instrumental activities of daily living in egocentric vision as sequences of active objects and context for alzheimer disease research. , 2013, , .		16
98	ACM MM MIIRH 2013. , 2013, , .		0
99	Adaptive rejection of outliers for robust motion compensation in cardiac MR-thermometry. , 2013, , .		2
100	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
101	No-reference video quality assessment of H.264 video streams based on semantic saliency maps. , 2012, , .		4
102	Feature-based brain MRI retrieval for Alzheimer disease diagnosis. , 2012, , .		31
103	Search of objects of interest in videos. , 2012, , .		6
104	Multi-layer Local Graph Words for Object Recognition. Lecture Notes in Computer Science, 2012, , 29-39.	1.0	6
105	Segmentation-based multi-class semantic object detection. Multimedia Tools and Applications, 2012, 60, 305-326.	2.6	20
106	Preface for the special issue of MTAP following CBMI 2010. Multimedia Tools and Applications, 2012, 60, 257-260.	2.6	0
107	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
108	Content Based Image Retrieval Using Bag-Of-Regions. Lecture Notes in Computer Science, 2012, , 507-517.	1.0	7

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109	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
110	Scalability issues in visual information retrieval. SpringerBriefs in Computer Science, 2012, , 65-81.	0.2	0
111	Activities of daily living indexing by hierarchical HMM for dementia diagnostics. , 2011, , .		10
112	A metric for no-reference video quality assessment for HD TV delivery based on saliency maps. , 2011, , .		14
113	Weighted-MSE based on saliency map for assessing video quality of H.264 video streams. , 2011, , .		7
114	Detection of moving foreground objects in videos with strong camera motion. Pattern Analysis and Applications, 2011, 14, 311-328.	3.1	18
115	Local object-based super-resolution mosaicing from low-resolution video. Signal Processing, 2011, 91, 1771-1780.	2.1	5
116	Multi-object particle filter tracking with automatic event analysis. , 2010, , .		3
117	Scalable object-based video retrieval in HD video databases. Signal Processing: Image Communication, 2010, 25, 450-465.	1.8	12
118	Real time constrained motion estimation for ECG-gated cardiac MRI. , 2010, , .		3
119	A new criterion for motion estimation assessment for MR-thermometry applications. , 2010, , .		0
120	Human Daily Activities Indexing in Videos from Wearable Cameras for Monitoring of Patients with Dementia Diseases. , 2010, , .		21
121	Significance Delta Reasoning with p-Adic Neural Networks: Application to Shot Change Detection in Video. Computer Journal, 2010, 53, 417-431.	1.5	9
122	Indexing of compressed video: Methods, challenges, applications. , 2010, , .		1
123	The IMMED project. , 2010, , .		27
124	A multi-object particle filter tracking with a dual consistency check: Application to mid-level concept detection in videos. , 2010, , .		3
125	Scalable Indexing of HD Video. Signals and Communication Technology, 2010, , 497-524.	0.4	2
126	ESPI Image Indexing and Similarity Search in Radon Transform Domain. , 2009, , .		2

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127	A multi-resolution particle filter tracking in a multi-camera environment. , 2009, , .		5
128	Clustering of scene repeats for essential rushes preview. , 2009, , .		5
129	Special Session: Scalable Video Indexing. , 2009, , .		0
130	Multi-resolution tracking of a non-rigid target with particle filters for low and variable frame-rate videos. , 2009, , .		2
131	HD motion estimation in a wavelet pyramid in JPEG2000 context. , 2008, , .		2
132	Wearable video monitoring of people with age Dementia : Video indexing at the service of helthcare. , 2008, , .		14
133	Scalable indexing of HD Video. , 2008, , .		4
134	Multidimensional clustering index for image retrieval. , 2008, , .		0
135	The COST292 experimental framework for rushes summarization task in TRECVID 2008. , 2008, , .		6
136	Rushes summarization by IRIM consortium. , 2008, , .		7
137	Multiple Moving Object Detection for Fast Video Content Description in Compressed Domain. Eurasip Journal on Advances in Signal Processing, 2007, 2008, .	1.0	23
138	ARGOS: French evaluation campaign for benchmarking of video content analysis methods. , 2007, , .		0
139	Welcome to CBMI 2007 and to Bordeaux!. , 2007, , .		0
140	PCA-Based Image Registration : Application to On-Line MR Temperature Monitoring of Moving Tissues. , 2007, , .		5
141	Object-Based Indexing of Compressed Video Content: From SD to HD Video. , 2007, , .		9
142	The Argos Campaign: Evaluation of Video Analysis Tools. , 2007, , .		3
143	Signal processing: Image communication, special issue on content-based multimedia indexing and retrieval. Signal Processing: Image Communication, 2007, 22, 605-606.	1.8	2
144	Super-resolution mosaicing from MPEG compressed video. Signal Processing: Image Communication, 2007, 22, 845-865.	1.8	8

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145	Retrieval of objects in video by similarity based on graph matching. Pattern Recognition Letters, 2007, 28, 939-949.	2.6	30
146	The ARGOS campaign: Evaluation of video analysis and indexing tools. Signal Processing: Image Communication, 2007, 22, 705-717.	1.8	4
147	PCA-Based Magnetic Field Modeling : Application for On-Line MR Temperature Monitoring. , 2007, 10, 411-419.		2
148	Knowledge-Based Supervised Learning Methods in a Classical Problem of Video Object Tracking. , 2006, , .		6
149	Use of Motion Information in Super-Resolution Mosaicing. , 2006, , .		2
150	DAG-based visual interfaces for navigation in indexed video content. Multimedia Tools and Applications, 2006, 31, 51-72.	2.6	6
151	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
152	Object-Based Video Indexing. , 2005, , 163-201.		0
153	Super-resolution mosaicing from MPEG compressed video. , 2005, , .		2
154	Gaussian mixture classification for moving object detection in video surveillance environment. , 2005, , .		14
155	Moving away from narrow-scope solutions in multimedia content analysis. , 2005, , .		2
156	<title>Intuitive color-based visualization of multimedia content as large graphs</title>. , 2004, , .		0
157	<title>Extraction of foreground objects from an MPEG2 video stream in rough-indexing framework</title>. , 2003, 5307, 50.		6
158	<title>Human detection and tracking for video surveillance applications in a low-density environment</title>. , 2003, 5150, 51.		0
159	INTERACTIVE FINE OBJECT-BASED SEGMENTATION OF GENERIC VIDEO SCENES FOR OBJECT-BASED INDEXING. , 2003, , .		2
160	Full scheme of MPEG4-like codec based on wavelet transform. , 2002, , .		3
161	Tracking of Objects in Video Scenes with Time Varying Content. Eurasip Journal on Advances in Signal Processing, 2002, 2002, 1.	1.0	8
162	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

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163	Hierarchical segmentation of video sequences for content manipulation and adaptive coding. Signal Processing, 1998, 66, 181-201.	2.1	14
164	<title>Dominant motion estimation and video partitioning with a 1D signal approach</title>. , 1998, 3527, 283.		5
165	<title>Region-based coding scheme for the transmission of video sequences via channels of varying very low bit rate</title>. , 1997, , .		2
166	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
167	<title>Region-based representation of video sequences with uniform background motion for a content-based image coding</title>. , 1996, , .		1
168	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
169	Coding of structure in the region-based coder as a problem of optimization on graphs. , 1996, , .		0
170	<title>Region-based time-varying image coding at low bit rate with a high visual quality</title>. , 1995, , .		1
171	Active contours approach to object tracking in image sequences with complex background. Pattern Recognition Letters, 1995, 16, 171-178.	2.6	31
172	Grouping video shots into scenes based on 1D mosaic descriptors. , 0, , .		3
173	Image segmentation by region-contour cooperation for image coding. , 0, , .		10
174	Robust segmentation of moving image sequences. , 0, , .		7
175	Tracking of hierarchical active meshes for object based manipulation of video content. , 0, , .		0
176	Real-Time and Distributed AV Content Analysis System for Consumer Electronics Networks. , 0, , .		7
177	Comparison of Shot Boundary Detectors. , 0, , .		15