

Antonio Fernández-Caballero

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6324784/publications.pdf>

Version: 2024-02-01

275
papers

4,566
citations

117453

34
h-index

149479

56
g-index

304
all docs

304
docs citations

304
times ranked

3480
citing authors

#	ARTICLE	IF	CITATIONS
1	A survey of video datasets for human action and activity recognition. <i>Computer Vision and Image Understanding</i> , 2013, 117, 633-659.	3.0	349
2	Electrodermal Activity Sensor for Classification of Calm/Distress Condition. <i>Sensors</i> , 2017, 17, 2324.	2.1	131
3	Multimodal behavioral analysis for non-invasive stress detection. <i>Expert Systems With Applications</i> , 2012, 39, 13376-13389.	4.4	127
4	Finding out general tendencies in speckle noise reduction in ultrasound images. <i>Expert Systems With Applications</i> , 2009, 36, 7786-7797.	4.4	123
5	Artificial intelligence within the interplay between natural and artificial computation: Advances in data science, trends and applications. <i>Neurocomputing</i> , 2020, 410, 237-270.	3.5	121
6	Smart environment architecture for emotion detection and regulation. <i>Journal of Biomedical Informatics</i> , 2016, 64, 55-73.	2.5	112
7	Development of intelligent multisensor surveillance systems with agents. <i>Robotics and Autonomous Systems</i> , 2007, 55, 892-903.	3.0	108
8	An optimization on pictogram identification for the road-sign recognition task using SVMs. <i>Computer Vision and Image Understanding</i> , 2010, 114, 373-383.	3.0	106
9	Sensor-driven agenda for intelligent home care of the elderly. <i>Expert Systems With Applications</i> , 2012, 39, 12192-12204.	4.4	100
10	Optical flow or image subtraction in human detection from infrared camera on mobile robot. <i>Robotics and Autonomous Systems</i> , 2010, 58, 1273-1281.	3.0	91
11	Model-driven engineering techniques for the development of multi-agent systems. <i>Engineering Applications of Artificial Intelligence</i> , 2012, 25, 159-173.	4.3	79
12	Towards personalized recommendation by two-step modified Apriori data mining algorithm. <i>Expert Systems With Applications</i> , 2008, 35, 1422-1429.	4.4	71
13	A Review on Nonlinear Methods Using Electroencephalographic Recordings for Emotion Recognition. <i>IEEE Transactions on Affective Computing</i> , 2021, 12, 801-820.	5.7	69
14	Software Architecture for Smart Emotion Recognition and Regulation of the Ageing Adult. <i>Cognitive Computation</i> , 2016, 8, 357-367.	3.6	67
15	Visual surveillance by dynamic visual attention method. <i>Pattern Recognition</i> , 2006, 39, 2194-2211.	5.1	64
16	Human activity monitoring by local and global finite state machines. <i>Expert Systems With Applications</i> , 2012, 39, 6982-6993.	4.4	59
17	A multi-modal approach for activity classification and fall detection. <i>International Journal of Systems Science</i> , 2014, 45, 810-824.	3.7	57
18	A Review on the Role of Color and Light in Affective Computing. <i>Applied Sciences (Switzerland)</i> , 2015, 5, 275-293.	1.3	57

#	ARTICLE	IF	CITATIONS
19	Real-time human segmentation in infrared videos. <i>Expert Systems With Applications</i> , 2011, 38, 2577-2584.	4.4	54
20	Road-traffic monitoring by knowledge-driven static and dynamic image analysis. <i>Expert Systems With Applications</i> , 2008, 35, 701-719.	4.4	52
21	Vehicle Tracking by Simultaneous Detection and Viewpoint Estimation. <i>Lecture Notes in Computer Science</i> , 2013, , 306-316.	1.0	52
22	Influence of Tempo and Rhythmic Unit in Musical Emotion Regulation. <i>Frontiers in Computational Neuroscience</i> , 2016, 10, 80.	1.2	51
23	Modeling and implementing an agent-based environmental health impact decision support system. <i>Expert Systems With Applications</i> , 2009, 36, 2603-2614.	4.4	47
24	Social cognition remediation interventions: A systematic mapping review. <i>PLoS ONE</i> , 2019, 14, e0218720.	1.1	44
25	Video sequence motion tracking by fuzzification techniques. <i>Applied Soft Computing Journal</i> , 2010, 10, 318-331.	4.1	43
26	Multiscale Entropy Analysis for Recognition of Visually Elicited Negative Stress From EEG Recordings. <i>International Journal of Neural Systems</i> , 2019, 29, 1850038.	3.2	43
27	Estimation of Mental Distress from Photoplethysmography. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 69.	1.3	42
28	On the use of agent technology in intelligent, multisensory and distributed surveillance. <i>Knowledge Engineering Review</i> , 2011, 26, 191-208.	2.1	41
29	Computer Vision in Autonomous Unmanned Aerial Vehicles – A Systematic Mapping Study. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 3196.	1.3	41
30	Spatio-temporal shape building from image sequences using lateral interaction in accumulative computation. <i>Pattern Recognition</i> , 2003, 36, 1131-1142.	5.1	40
31	Facial expression recognition in ageing adults: from lab to ambient assisted living. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 2017, 8, 567-578.	3.3	40
32	Agent-oriented modeling and development of a person-following mobile robot. <i>Expert Systems With Applications</i> , 2011, 38, 4280-4290.	4.4	39
33	A Tandem Active Disturbance Rejection Control for a Laboratory Helicopter With Variable-Speed Rotors. <i>IEEE Transactions on Industrial Electronics</i> , 2016, 63, 6395-6406.	5.2	38
34	Motion features to enhance scene segmentation in active visual attention. <i>Pattern Recognition Letters</i> , 2006, 27, 469-478.	2.6	36
35	Human-Avatar Symbiosis for the Treatment of Auditory Verbal Hallucinations in Schizophrenia through Virtual/Augmented Reality and Brain-Computer Interfaces. <i>Frontiers in Neuroinformatics</i> , 2017, 11, 64.	1.3	36
36	Artificial Neural Networks to Assess Emotional States from Brain-Computer Interface. <i>Electronics (Switzerland)</i> , 2018, 7, 384.	1.8	36

#	ARTICLE	IF	CITATIONS
37	Lateral interaction in accumulative computation: a model for motion detection. <i>Neurocomputing</i> , 2003, 50, 341-364.	3.5	35
38	A fuzzy model for human fall detection in infrared video. <i>Journal of Intelligent and Fuzzy Systems</i> , 2013, 24, 215-228.	0.8	35
39	Knowledge modelling for the motion detection task: the algorithmic lateral inhibition method. <i>Expert Systems With Applications</i> , 2004, 27, 169-185.	4.4	34
40	Thermal-Infrared Pedestrian ROI Extraction through Thermal and Motion Information Fusion. <i>Sensors</i> , 2014, 14, 6666-6676.	2.1	34
41	Improvement of the Elderly Quality of Life and Care through Smart Emotion Regulation. <i>Lecture Notes in Computer Science</i> , 2014, , 348-355.	1.0	33
42	On motion detection through a multi-layer neural network architecture. <i>Neural Networks</i> , 2003, 16, 205-222.	3.3	32
43	Dynamic visual attention model in image sequences. <i>Image and Vision Computing</i> , 2007, 25, 597-613.	2.7	32
44	Mobile robot map building from time-of-flight camera. <i>Expert Systems With Applications</i> , 2012, 39, 8835-8843.	4.4	31
45	Deep Support Vector Machines for the Identification of Stress Condition from Electrodermal Activity. <i>International Journal of Neural Systems</i> , 2020, 30, 2050031.	3.2	29
46	Geometric transformation-based data augmentation on defect classification of segmented images of semiconductor materials using a ResNet50 convolutional neural network. <i>Expert Systems With Applications</i> , 2022, 206, 117731.	4.4	29
47	Dynamic stereoscopic selective visual attention (DSSVA): Integrating motion and shape with depth in video segmentation. <i>Expert Systems With Applications</i> , 2008, 34, 1394-1402.	4.4	28
48	A Taxonomy of Vision Systems for Ground Mobile Robots. <i>International Journal of Advanced Robotic Systems</i> , 2014, 11, 111.	1.3	28
49	Segmentation from motion of non-rigid objects by neuronal lateral interaction. <i>Pattern Recognition Letters</i> , 2001, 22, 1517-1524.	2.6	27
50	Facial Expression Recognition from Webcam Based on Active Shape Models and Support Vector Machines. <i>Lecture Notes in Computer Science</i> , 2014, , 147-154.	1.0	25
51	Algorithmic lateral inhibition method in dynamic and selective visual attention task: Application to moving objects detection and labelling. <i>Expert Systems With Applications</i> , 2006, 31, 570-594.	4.4	24
52	Configurational Entropy in Multicomponent Alloys: Matrix Formulation from Ab Initio Based Hamiltonian and Application to the FCC Cr-Fe-Mn-Ni System. <i>Entropy</i> , 2019, 21, 68.	1.1	24
53	Length-speed ratio (LSR) as a characteristic for moving elements real-time classification. <i>Real Time Imaging</i> , 2003, 9, 49-59.	1.6	23
54	Determining heart parameters through left ventricular automatic segmentation for heart disease diagnosis. <i>Expert Systems With Applications</i> , 2009, 36, 2234-2249.	4.4	21

#	ARTICLE	IF	CITATIONS
55	Selection of a Visible-Light vs. Thermal Infrared Sensor in Dynamic Environments Based on Confidence Measures. <i>Applied Sciences (Switzerland)</i> , 2014, 4, 331-350.	1.3	21
56	Multi-Lag Analysis of Symbolic Entropies on EEG Recordings for Distress Recognition. <i>Frontiers in Neuroinformatics</i> , 2019, 13, 40.	1.3	21
57	Differences between young and older adults in physiological and subjective responses to emotion induction using films. <i>Scientific Reports</i> , 2020, 10, 14548.	1.6	21
58	A Review on Machine and Deep Learning for Semiconductor Defect Classification in Scanning Electron Microscope Images. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 9508.	1.3	21
59	Stereovision depth analysis by two-dimensional motion charge memories. <i>Pattern Recognition Letters</i> , 2007, 28, 20-30.	2.6	20
60	Real-time motion detection by lateral inhibition in accumulative computation. <i>Engineering Applications of Artificial Intelligence</i> , 2010, 23, 129-139.	4.3	20
61	INT3-Horus framework for multispectrum activity interpretation in intelligent environments. <i>Expert Systems With Applications</i> , 2013, 40, 6715-6727.	4.4	20
62	Robust Decentralized Nonlinear Control for a Twin Rotor MIMO System. <i>Sensors</i> , 2016, 16, 1160.	2.1	20
63	Generalized Proportional Integral Control for an Unmanned Quadrotor System. <i>International Journal of Advanced Robotic Systems</i> , 2015, 12, 85.	1.3	19
64	Design of reliable virtual human facial expressions and validation by healthy people. <i>Integrated Computer-Aided Engineering</i> , 2020, 27, 287-299.	2.5	19
65	Acceptance and use of a multi-modal avatar-based tool for remediation of social cognition deficits. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 2020, 11, 4513-4524.	3.3	18
66	How Interpersonal Distance Between Avatar and Human Influences Facial Affect Recognition in Immersive Virtual Reality. <i>Frontiers in Psychology</i> , 2021, 12, 675515.	1.1	18
67	RGBÊledollar assistive technologies for acquired brain injury: description and assessment of user experience. <i>Expert Systems</i> , 2015, 32, 370-380.	2.9	17
68	Optimal Feature Selection for Defect Classification in Semiconductor Wafers. <i>IEEE Transactions on Semiconductor Manufacturing</i> , 2022, 35, 324-331.	1.4	17
69	Arousal Level Classification in the Ageing Adult by Measuring Electrodermal Skin Conductivity. <i>Lecture Notes in Computer Science</i> , 2015, , 213-223.	1.0	16
70	IDK and ICARO to develop multi-agent systems in support of Ambient Intelligence. <i>Journal of Intelligent and Fuzzy Systems</i> , 2015, 28, 3-15.	0.8	16
71	Smart environment architecture for robust people detection by infrared and visible video fusion. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 2017, 8, 223-237.	3.3	16
72	Emotion Detection and Regulation from Personal Assistant Robot in Smart Environment. <i>Intelligent Systems Reference Library</i> , 2018, , 179-195.	1.0	16

#	ARTICLE	IF	CITATIONS
73	Recognition of Emotional States from EEG Signals with Nonlinear Regularity- and Predictability-Based Entropy Metrics. <i>Cognitive Computation</i> , 2021, 13, 403-417.	3.6	16
74	Multi-camera systems for rehabilitation therapies: a study of the precision of Microsoft Kinect sensors. <i>Frontiers of Information Technology and Electronic Engineering</i> , 2016, 17, 348-364.	1.5	15
75	Neural Correlates of Phrase Quadrature Perception in Harmonic Rhythm: An EEG Study Using a Brain-Computer Interface. <i>International Journal of Neural Systems</i> , 2018, 28, 1750054.	3.2	15
76	Pharmacological interventions in social cognition deficits: A systematic mapping review. <i>Psychiatry Research</i> , 2018, 270, 57-67.	1.7	15
77	Nonlinear predictability analysis of brain dynamics for automatic recognition of negative stress. <i>Neural Computing and Applications</i> , 2020, 32, 13221-13231.	3.2	15
78	Arousal Detection in Elderly People from Electrodermal Activity Using Musical Stimuli. <i>Sensors</i> , 2020, 20, 4788.	2.1	15
79	Display text segmentation after learning best-fitted OCR binarization parameters. <i>Expert Systems With Applications</i> , 2012, 39, 4032-4043.	4.4	14
80	Film mood induction and emotion classification using physiological signals for health and wellness promotion in older adults living alone. <i>Expert Systems</i> , 2020, 37, e12425.	2.9	14
81	Human-robot interaction in Industry 4.0 based on an Internet of Things real-time gesture control system. <i>Integrated Computer-Aided Engineering</i> , 2021, 28, 159-175.	2.5	14
82	LoRaWAN Scheduling: From Concept to Implementation. <i>IEEE Internet of Things Journal</i> , 2021, 8, 12919-12933.	5.5	14
83	Feeling of Safety and Comfort towards a Socially Assistive Unmanned Aerial Vehicle That Monitors People in a Virtual Home. <i>Sensors</i> , 2021, 21, 908.	2.1	14
84	One-dimensional convolutional neural networks for low/high arousal classification from electrodermal activity. <i>Biomedical Signal Processing and Control</i> , 2022, 71, 103203.	3.5	14
85	Real-Time Accumulative Computation Motion Detectors. <i>Sensors</i> , 2009, 9, 10044-10065.	2.1	13
86	Multi-agent system for knowledge-based event recognition and composition. <i>Expert Systems</i> , 2011, 28, 488-501.	2.9	13
87	Neural Correlates of Phrase Rhythm: An EEG Study of Bipartite vs. Rondo Sonata Form. <i>Frontiers in Neuroinformatics</i> , 2017, 11, 29.	1.3	13
88	Adaptive Interaction Multi-agent Systems in E-learning/E-teaching on the Web. <i>Lecture Notes in Computer Science</i> , 2003, , 144-153.	1.0	12
89	Modelling the Stereovision-Correspondence-Analysis task by Lateral Inhibition in Accumulative Computation problem-solving method. <i>Expert Systems With Applications</i> , 2007, 33, 955-967.	4.4	12
90	Validation of dynamic virtual faces for facial affect recognition. <i>PLoS ONE</i> , 2021, 16, e0246001.	1.1	12

#	ARTICLE	IF	CITATIONS
91	Model-Based Design of Adaptive User Interfaces through Connectors. Lecture Notes in Computer Science, 2003, , 245-257.	1.0	12
92	Prometheus and INGENIAS Agent Methodologies: A Complementary Approach. Lecture Notes in Computer Science, 2009, , 131-144.	1.0	12
93	A Multisensory Monitoring and Interpretation Framework Based on the Model-View-Controller Paradigm. Lecture Notes in Computer Science, 2011, , 441-450.	1.0	12
94	Digital Technology for Internet Access by Patients With Early-Stage Schizophrenia in Spain: Multicenter Research Study. Journal of Medical Internet Research, 2019, 21, e11824.	2.1	12
95	Holonic Multi-agent Systems to Integrate Independent Multi-sensor Platforms in Complex Surveillance. , 2006, , .		11
96	An Agent-Based Decision Support System for Ecological-Medical Situation Analysis. Lecture Notes in Computer Science, 2007, , 511-520.	1.0	11
97	A historical perspective of algorithmic lateral inhibition and accumulative computation in computer vision. Neurocomputing, 2011, 74, 1175-1181.	3.5	11
98	Robust Human Detection and Tracking in Intelligent Environments by Information Fusion of Color and Infrared Video. , 2011, , .		11
99	Engineering the development of systems for multisensory monitoring and activity interpretation. International Journal of Systems Science, 2014, 45, 728-740.	3.7	11
100	Heart Attack Detection in Colour Images Using Convolutional Neural Networks. Applied Sciences (Switzerland), 2019, 9, 5065.	1.3	11
101	Facial Affect Recognition by Patients with Schizophrenia Using Human Avatars. Journal of Clinical Medicine, 2021, 10, 1904.	1.0	11
102	Wireless Multisensory Interaction in an Intelligent Rehabilitation Environment. Advances in Intelligent Systems and Computing, 2014, , 193-200.	0.5	11
103	Elicitation of Emotions through Music: The Influence of Note Value. Lecture Notes in Computer Science, 2015, , 488-497.	1.0	11
104	Knowledge modeling through computational agents: application to surveillance systems. Expert Systems, 2011, 28, 306-323.	2.9	10
105	ROSACE: Agent-Based Systems for Dynamic Task Allocation in Crisis Management. Advances in Intelligent and Soft Computing, 2012, , 255-259.	0.2	10
106	Nonlinear Cascade-Based Control for a Twin Rotor MIMO System. , 0, , .		10
107	Facial Emotion Recognition from an Unmanned Flying Social Robot for Home Care of Dependent People. Electronics (Switzerland), 2021, 10, 868.	1.8	10
108	Assessment of dispersion patterns for negative stress detection from electroencephalographic signals. Pattern Recognition, 2021, 119, 108094.	5.1	10

#	ARTICLE	IF	CITATIONS
109	Augmented Humanity: A Systematic Mapping Review. <i>Sensors</i> , 2022, 22, 514.	2.1	10
110	A simulation tool for monitoring elderly who suffer from disorientation in a smart home. <i>Expert Systems</i> , 2015, 32, 676-687.	2.9	9
111	Nonlinear Methodologies Applied to Automatic Recognition of Emotions: An EEG Review. <i>Lecture Notes in Computer Science</i> , 2017, , 754-765.	1.0	9
112	Body Area Networks in Healthcare: A Brief State of the Art. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 3248.	1.3	9
113	Stress Monitoring in Conflict Resolution Situations. <i>Advances in Intelligent and Soft Computing</i> , 2012, , 137-144.	0.2	9
114	Evaluation of environmental impact upon human health with DeciMaS framework. <i>Expert Systems With Applications</i> , 2012, 39, 3469-3483.	4.4	8
115	Modelo de model and modelo de texto: looking for the automation of VigilAgent. <i>Expert Systems</i> , 2014, 31, 199-212.	2.9	8
116	Emotion Detection in Ageing Adults from Physiological Sensors. <i>Advances in Intelligent Systems and Computing</i> , 2015, , 253-261.	0.5	8
117	The INGENIAS Methodology for Advanced Surveillance Systems Modelling. <i>Lecture Notes in Computer Science</i> , 2007, , 541-550.	1.0	8
118	Using ICARO-T Framework for Reactive Agent-Based Mobile Robots. <i>Advances in Intelligent and Soft Computing</i> , 2010, , 91-101.	0.2	8
119	A Proposal for Local and Global Human Activities Identification. <i>Lecture Notes in Computer Science</i> , 2010, , 78-87.	1.0	8
120	The impact of soft computing for the progress of artificial intelligence. <i>Applied Soft Computing Journal</i> , 2011, 11, 1491-1492.	4.1	7
121	Evaluation of Color Preference for Emotion Regulation. <i>Lecture Notes in Computer Science</i> , 2015, , 479-487.	1.0	7
122	Gerontechnologies “ Current achievements and future trends. <i>Expert Systems</i> , 2017, 34, e12203.	2.9	7
123	Virtual Reality Simulation of a Quadrotor to Monitor Dependent People at Home. <i>IEEE Transactions on Emerging Topics in Computing</i> , 2020, , 1-1.	3.2	7
124	Smart Computer-Assisted Cognitive Rehabilitation for the Ageing Population. <i>Advances in Intelligent Systems and Computing</i> , 2016, , 197-205.	0.5	7
125	Conditional Entropy Estimates for Distress Detection with EEG Signals. <i>Lecture Notes in Computer Science</i> , 2017, , 193-202.	1.0	7
126	Segmenting Humans from Mobile Thermal Infrared Imagery. <i>Lecture Notes in Computer Science</i> , 2009, , 334-343.	1.0	7

#	ARTICLE	IF	CITATIONS
127	SmartWalk BAN: Using Body Area Networks to Encourage Older Adults to Perform Physical Activity. Electronics (Switzerland), 2021, 10, 56.	1.8	7
128	Comparison of RGB-D and IMU-based gesture recognition for human-robot interaction in remanufacturing. International Journal of Advanced Manufacturing Technology, 2023, 124, 3099-3111.	1.5	7
129	Efficient People Counting from Indoor Overhead Video Camera. Advances in Intelligent Systems and Computing, 2013, , 129-137.	0.5	7
130	Study of Electroencephalographic Signal Regularity for Automatic Emotion Recognition. Lecture Notes in Computer Science, 2017, , 766-777.	1.0	7
131	A conceptual frame with two neural mechanisms to model selective visual attention processes. Neurocomputing, 2008, 71, 704-720.	3.5	6
132	Parametric improvement of lateral interaction in accumulative computation in motion-based segmentation. Neurocomputing, 2008, 71, 776-786.	3.5	6
133	Multi-agent-based System Technologies in Environmental Issues. Environmental Science and Engineering, 2009, , 549-562.	0.1	6
134	Robust People Segmentation by Static Infrared Surveillance Camera. Lecture Notes in Computer Science, 2010, , 348-357.	1.0	6
135	Human-Avatar Symbiosis in Cognitive Cybertherapies: Proof of Concept for Auditory Verbal Hallucinations. Lecture Notes in Computer Science, 2017, , 742-753.	1.0	6
136	Application of Dispersion Entropy for the Detection of Emotions With Electroencephalographic Signals. IEEE Transactions on Cognitive and Developmental Systems, 2022, 14, 1179-1187.	2.6	6
137	Psychosocial remediation in depressive disorders: A systematic review. Journal of Affective Disorders, 2021, 290, 40-51.	2.0	6
138	Cross-sample entropy for the study of coordinated brain activity in calm and distress conditions with electroencephalographic recordings. Neural Computing and Applications, 2021, 33, 9343-9352.	3.2	6
139	Accumulative Computation Method for Motion Features Extraction in Active Selective Visual Attention. Lecture Notes in Computer Science, 2005, , 206-215.	1.0	6
140	A Model of Neural Inspiration for Local Accumulative Computation. Lecture Notes in Computer Science, 2003, , 427-435.	1.0	6
141	Agent-Based Modeling of a Mobile Robot to Detect and Follow Humans. Lecture Notes in Computer Science, 2009, , 80-89.	1.0	6
142	Developing Multi-Agent Systems through Integrating Prometheus, INGENIAS and ICARO-T. Communications in Computer and Information Science, 2010, , 219-232.	0.4	6
143	People Detection in Color and Infrared Video Using HOG and Linear SVM. Lecture Notes in Computer Science, 2013, , 179-189.	1.0	6
144	Collaborative Computer-Assisted Cognitive Rehabilitation System. Advances in Distributed Computing and Artificial Intelligence Journal, 2017, 6, 57-74.	1.1	6

#	ARTICLE	IF	CITATIONS
145	Facilitating MAS Complete Life Cycle through the ProtÃ©gÃ©-Prometheus Approach. , 2008, , 63-72.		6
146	On the identification and establishment of topological spatial relations by autonomous systems. Connection Science, 2014, 26, 261-292.	1.8	5
147	Intelligent multisensory systems in support of information society. International Journal of Systems Science, 2014, 45, 711-713.	3.7	5
148	An Innovative Tool to Create Neurofeedback Games for ADHD Treatment. Lecture Notes in Computer Science, 2017, , 183-192.	1.0	5
149	Integration of Sensors in Control and Automation Systems. Journal of Sensors, 2017, 2017, 1-2.	0.6	5
150	Intelligent trajectory planner and generalised proportional integral control for two carts equipped with a red-green-blue depth sensor on a circular rail. Integrated Computer-Aided Engineering, 2020, 27, 267-285.	2.5	5
151	Generalised Proportional Integral Control for Magnetic Levitation Systems Using a Tangent Linearisation Approach. Mathematics, 2021, 9, 1424.	1.1	5
152	Model-Driven Integration of Organizational Models. Lecture Notes in Computer Science, 2009, , 1-15.	1.0	5
153	Clustering of Trajectories in Video Surveillance Using Growing Neural Gas. Lecture Notes in Computer Science, 2011, , 461-470.	1.0	5
154	Multi-agent system for knowledge-based event recognition and composition. Expert Systems, 2011, 28, no-no.	2.9	5
155	A virtual learning environment for short age children [sic.: for 'short age' read 'young']. , 0, , .		4
156	Methodological Approach to Reducing Speckle Noise in Ultrasound Images. , 2008, , .		4
157	HOLDS: Efficient Fall Detection through Accelerometers and Computer Vision. , 2012, , .		4
158	Lateral Inhibition in Accumulative Computation and Fuzzy Sets for Human Fall Pattern Recognition in Colour and Infrared Imagery. Scientific World Journal, The, 2013, 2013, 1-10.	0.8	4
159	Trajectory Planning of a Quadrotor to Monitor Dependent People. Lecture Notes in Computer Science, 2019, , 212-221.	1.0	4
160	Co-design of avatars to embody auditory hallucinations of patients with schizophrenia. Virtual Reality, 2023, 27, 217-232.	4.1	4
161	Towards the Design of Avatar-Based Therapies for Enhancing Facial Affect Recognition. Advances in Intelligent Systems and Computing, 2019, , 306-313.	0.5	4
162	Gesture Control Wearables for Human-Machine Interaction in Industry 4.0. Lecture Notes in Computer Science, 2019, , 99-108.	1.0	4

#	ARTICLE	IF	CITATIONS
163	Assisting Dependent People at Home Through Autonomous Unmanned Aerial Vehicles. <i>Advances in Intelligent Systems and Computing</i> , 2020, , 216-223.	0.5	4
164	A Meta-ontological Framework for Multi-agent Systems Design. <i>Lecture Notes in Computer Science</i> , 2007, , 521-530.	1.0	4
165	Agent-Based Decision Making through Intelligent Knowledge Discovery. <i>Lecture Notes in Computer Science</i> , 2008, , 709-715.	1.0	4
166	Improving Area Center Robot Navigation Using a Novel Range Scan Segmentation Method. <i>Lecture Notes in Computer Science</i> , 2011, , 233-245.	1.0	4
167	Intelligent monitoring for people assistance and safety. <i>Expert Systems</i> , 2014, 31, 343-344.	2.9	3
168	Color video segmentation by lateral inhibition in accumulative computation. <i>Signal, Image and Video Processing</i> , 2014, 8, 1179-1188.	1.7	3
169	Experimentation on Emotion Regulation with Single-Colored Images. <i>Lecture Notes in Computer Science</i> , 2015, , 265-276.	1.0	3
170	Deliberative control components for eldercare robot team cooperation. <i>Journal of Intelligent and Fuzzy Systems</i> , 2015, 28, 17-28.	0.8	3
171	Cognitively-Inspired Computing for Gerontechnology. <i>Cognitive Computation</i> , 2016, 8, 297-298.	3.6	3
172	Special Issue on Socio-Cognitive and Affective Computing. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 1371.	1.3	3
173	Stress Identification from Electrodermal Activity by Support Vector Machines. <i>Lecture Notes in Computer Science</i> , 2019, , 202-211.	1.0	3
174	Development and Validation of Basic Virtual Human Facial Emotion Expressions. <i>Lecture Notes in Computer Science</i> , 2019, , 222-231.	1.0	3
175	Emotion Detection in Aging Adults Through Continuous Monitoring of Electro-Dermal Activity and Heart-Rate Variability. <i>Lecture Notes in Computer Science</i> , 2019, , 252-261.	1.0	3
176	Electroencephalographic spectral analysis from a wireless low-cost brain-computer interface for symptom capture of auditory verbal hallucinations in schizophrenia. <i>Schizophrenia Research</i> , 2020, 220, 297-299.	1.1	3
177	Neurally Inspired Mechanisms for the Dynamic Visual Attention Map Generation Task. <i>Lecture Notes in Computer Science</i> , 2003, , 694-701.	1.0	3
178	Rapid Prototyping of Distributed User Interfaces. , 2007, , 151-166.		3
179	A Multi-agent System for Infrared and Color Video Fusion. <i>Advances in Intelligent Systems and Computing</i> , 2014, , 131-138.	0.5	3
180	Hierarchical Architecture for Robust People Detection by Fusion of Infrared and Visible Video. <i>Studies in Computational Intelligence</i> , 2016, , 343-351.	0.7	3

#	ARTICLE	IF	CITATIONS
181	LED Strips for Color- and Illumination-Based Emotion Regulation at Home. Lecture Notes in Computer Science, 2015, , 277-287.	1.0	3
182	Nonlinear Symbolic Assessment of Electroencephalographic Recordings for Negative Stress Recognition. Lecture Notes in Computer Science, 2017, , 203-212.	1.0	3
183	A Distributed Tool to Perform Dynamic Therapies for Social Cognitive Deficit Through Avatars. Lecture Notes in Computer Science, 2017, , 731-741.	1.0	3
184	Holonic Multi-agent System Model for Fuzzy Automatic Speech / Speaker Recognition. , 2008, , 73-82.		3
185	Skeleton Simplification by Key Points Identification. Lecture Notes in Computer Science, 2010, , 30-39.	1.0	3
186	Agent-Based Development of Multisensory Monitoring Systems. Lecture Notes in Computer Science, 2011, , 451-460.	1.0	3
187	Protocol Integration for Intelligent Monitoring Applications in Wireless Sensor Networks. Lecture Notes in Computer Science, 2011, , 511-520.	1.0	3
188	Towards Usability Evaluation of Multimodal Assistive Technologies Using RGB-D Sensors. Lecture Notes in Computer Science, 2013, , 210-219.	1.0	3
189	Towards a Semi-automatic Situation Diagnosis System in Surveillance Tasks. Lecture Notes in Computer Science, 2007, , 90-98.	1.0	3
190	Integration of Sensors in Control and Automation Systems 2020. Journal of Sensors, 2022, 2022, 1-3.	0.6	3
191	Video Processing from a Virtual Unmanned Aerial Vehicle: Comparing Two Approaches to Using OpenCV in Unity. Applied Sciences (Switzerland), 2022, 12, 5958.	1.3	3
192	Motion-Based Stereovision Method with Potential Utility in Robot Navigation. Lecture Notes in Computer Science, 2005, , 16-25.	1.0	2
193	Knowledge-Based Road Traffic Monitoring. Lecture Notes in Computer Science, 2007, , 182-191.	1.0	2
194	Hybrid models in agent-based environmental decision support. Applied Soft Computing Journal, 2011, 11, 5243-5258.	4.1	2
195	A Framework for Multisensory Intelligent Monitoring and Interpretation of Behaviors through Information Fusion. , 2011, , .		2
196	Multispectrum Video for Proactive Response in Intelligent Environments. , 2012, , .		2
197	A Grand Challenge for Vision Systems: Improving the Quality of Life and Care of Aging Adults. Frontiers in Robotics and AI, 2015, 2, .	2.0	2
198	Non-linear EEG Modelling by Using Quadratic Entropy for Arousal Level Classification. Smart Innovation, Systems and Technologies, 2016, , 3-13.	0.5	2

#	ARTICLE	IF	CITATIONS
199	EEG Mapping for Arousal Level Quantification Using Dynamic Quadratic Entropy. <i>Advances in Intelligent Systems and Computing</i> , 2016, , 207-214.	0.5	2
200	Emotional Induction Through Films: A Model for the Regulation of Emotions. <i>Smart Innovation, Systems and Technologies</i> , 2016, , 15-23.	0.5	2
201	Biologically inspired vision systems in robotics. <i>International Journal of Advanced Robotic Systems</i> , 2017, 14, 172988141774594.	1.3	2
202	Multimodal fusion for robotics. <i>International Journal of Advanced Robotic Systems</i> , 2018, 15, 172988141878283.	1.3	2
203	A Finite State Machine Approach to Algorithmic Lateral Inhibition for Real-Time Motion Detection in Sensors, 2018, 18, 1420.	2.1	2
204	Accelerating bioinspired lateral interaction in accumulative computation for real-time moving object detection with graphics processing units. <i>Natural Computing</i> , 2019, 18, 217-227.	1.8	2
205	Analysis of Electroencephalographic Signals from a Brain-Computer Interface for Emotions Detection. <i>Lecture Notes in Computer Science</i> , 2021, , 219-229.	1.0	2
206	Determining the ambient influences and configuration of optimised environments for emotional wellbeing of older adults. <i>Ergonomics</i> , 2021, 64, 1146-1159.	1.1	2
207	Gesture Control System for Industry 4.0 Human-Robot Interaction – A Usability Test. <i>Advances in Intelligent Systems and Computing</i> , 2020, , 54-61.	0.5	2
208	A Review on Intelligent Monitoring and Activity Interpretation. <i>Inteligencia Artificial</i> , 2017, 20, 53.	0.5	2
209	Robust human detection through fusion of color and infrared video. <i>Electronic Letters on Computer Vision and Image Analysis</i> , 2014, 13, 17.	0.5	2
210	VigilAgent Methodology: Modeling Normal and Anomalous Situations. <i>Advances in Intelligent and Soft Computing</i> , 2011, , 27-35.	0.2	2
211	A multisensor system for positioning of multiple users. , 2014, , .		2
212	TOWARDS INDUSTRY 4.0: USING LEGO MINDSTORMS AND ANDROID FOR THE DEVELOPMENT OF FINAL DEGREE PROJECTS IN INDUSTRIAL ENGINEERING PROGRAMS. <i>INTED Proceedings</i> , 2020, , .	0.0	2
213	Multi-Agent Systems Technology for Composite Decision Making in Complex Systems. , 2009, , 29-38.		1
214	Fuzzy Sets for Human Fall Pattern Recognition. <i>Lecture Notes in Computer Science</i> , 2012, , 117-126.	1.0	1
215	Trends in Practical Applications of Agents and Multiagent Systems. <i>Advances in Intelligent Systems and Computing</i> , 2013, , .	0.5	1
216	Indoor Overhead Video Camera for Efficient People Counting. <i>Jurnal Teknologi (Sciences and)</i> Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 62 T	0.3	1

#	ARTICLE	IF	CITATIONS
217	Computational biomodel of motion parallax for multiview 3D video conferencing. Neurocomputing, 2015, 151, 108-115.	3.5	1
218	Rehabilitation Robotics and Systems. Journal of Healthcare Engineering, 2018, 2018, 1-3.	1.1	1
219	Editorial: Physiological Computing of Social Cognition. Frontiers in Human Neuroscience, 2019, 13, 326.	1.0	1
220	Advanced Trajectory Generator for Two Carts with RGB-D Sensor on Circular Rail. Lecture Notes in Computer Science, 2019, , 181-190.	1.0	1
221	Optimization of lateral interaction in accumulative computation on GPU-based platform. Journal of Supercomputing, 2019, 75, 1670-1685.	2.4	1
222	Stereovision Disparity Analysis by Two-Dimensional Motion Charge Map Inspired in Neurobiology. Lecture Notes in Computer Science, 2005, , 457-466.	1.0	1
223	Acceleration of Moving Object Detection in Bio-Inspired Computer Vision. Lecture Notes in Computer Science, 2017, , 364-373.	1.0	1
224	Algorithmic Lateral Inhibition Formal Model for Real-Time Motion Detection. , 2007, , 638-645.		1
225	Computational Agents to Model Knowledge - Theory, and Practice in Visual Surveillance. Lecture Notes in Computer Science, 2009, , 375-385.	1.0	1
226	Revisiting Algorithmic Lateral Inhibition and Accumulative Computation. Lecture Notes in Computer Science, 2009, , 57-66.	1.0	1
227	Computational Agents in Complex Decision Support Systems. Intelligent Systems Reference Library, 2010, , 117-142.	1.0	1
228	Implementation and Assessment of Robot Team Cooperation Models Using Deliberative Control Components. Lecture Notes in Computer Science, 2012, , 412-421.	1.0	1
229	Efficient analysis of transactions to improve web recommendations. , 2012, , .		1
230	Fuzzy Decision Making Model for Human Fall Detection and Inactivity Monitoring. Smart Innovation, Systems and Technologies, 2012, , 215-224.	0.5	1
231	A Meta-model-Based Tool for Developing Monitoring and Activity Interpretation Systems. Advances in Intelligent and Soft Computing, 2012, , 113-120.	0.2	1
232	Fusion of Overhead and Lateral View Video for Enhanced People Counting. Lecture Notes in Computer Science, 2013, , 220-229.	1.0	1
233	How Many Kinects Should Look At You? A Multi-Agent System Approach. Advances in Intelligent Systems and Computing, 2015, , 105-112.	0.5	1
234	ENHANCING LEARNING OF ECONOMICS CONCEPTS BY STAGGERED PRACTICAL WORKS WITHIN THE DEGREES OF INDUSTRIAL ENGINEERING AT UNIVERSIDAD DE CASTILLA-LA MANCHA. INTED Proceedings, 2020, , .	0.0	1

#	ARTICLE	IF	CITATIONS
235	ECONOMICS 4.0: A PROPOSAL OF A TRAINING COMPLEMENT FOR THE DEVELOPMENT OF FINAL DEGREE PROJECTS IN INDUSTRIAL ENGINEERING PROGRAMS AT UNIVERSIDAD DE CASTILLA-LA MANCHA IN THE NEW INDUSTRY 4.0 ERA. INTED Proceedings, 2020, , .	0.0	1
236	A PROPOSAL TO IMPROVE PRACTICAL SKILLS LEARNING IN MOBILE ROBOTICS THROUGH LEGO MINDSTORMS NXT. INTED Proceedings, 2020, , .	0.0	1
237	Security Mechanisms of a Mobile Health Application for Promoting Physical Activity among Older Adults. Sensors, 2021, 21, 7323.	2.1	1
238	Towards Adaptive User Interfaces Generation. , 2004, , 226-232.		1
239	DISTANCE LEARNING BY INTELLIGENT TUTORING SYSTEM. , 2007, , 249-256.		1
240	Physical Exercise Effects on University Studentsâ€™ Attention: An EEG Analysis Approach. Electronics (Switzerland), 2022, 11, 770.	1.8	1
241	Pattern recognition in interdisciplinary perception and intelligence. Pattern Recognition Letters, 2008, 29, 1021-1023.	2.6	0
242	Supporting multi-agent systems life cycle by integrating Protege and Prometheus. International Journal of Intelligent Information and Database Systems, 2010, 4, 227.	0.3	0
243	Towards a unified interface in the field of assistive technologies. , 2012, , .		0
244	A methodological approach to mining and simulating data in complex information systems. Intelligent Data Analysis, 2013, 17, 753-769.	0.4	0
245	My Kinect Is Looking at Me - Application to Rehabilitation. Advances in Intelligent Systems and Computing, 2015, , 233-241.	0.5	0
246	Different strategies in the development of ANFIS to recognize vowels. , 2015, , .		0
247	Biologically Inspired Vision Systems for Flying Robots â€“ Editorial. International Journal of Advanced Robotic Systems, 2016, 13, 22.	1.3	0
248	A novel characterisation-based algorithm to discover new knowledge from classification datasets without use of support. Expert Systems With Applications, 2018, 93, 223-231.	4.4	0
249	Distributed Architecture for Acquisition and Processing of Physiological Signals. Proceedings (mdpi), 2019, 31, .	0.2	0
250	Memory Retrieval in Ageing Adults through Traditional Music Genresâ€”An Experiment Based on Electroencephalography Signals. Proceedings (mdpi), 2019, 31, .	0.2	0
251	Special Issue on Body Area Networks. Applied Sciences (Switzerland), 2020, 10, 3540.	1.3	0
252	Detection of Emotions from Electroencephalographic Recordings by Means of a Nonlinear Functional Connectivity Measure. Lecture Notes in Computer Science, 2021, , 242-252.	1.0	0

#	ARTICLE	IF	CITATIONS
253	Entropy and the Emotional Brain: Overview of a Research Field. Artificial Intelligence, 0, , .	2.0	0
254	SHAPING ENVIRONMENTS CONDUCIVE TO EMOTIONAL WELL-BEING FOR ELDERLY PEOPLE WITH INCIPIENT COGNITIVE IMPAIRMENT. Dyna (Spain), 2021, 96, 447-447.	0.1	0
255	Feature and Time Series Extraction in Artificial Neural Networks for Arousal Detection from Electrodermal Activity. Lecture Notes in Computer Science, 2021, , 265-276.	1.0	0
256	Foetal Age and Weight Determination Using a Lateral Interaction Inspired Net. Lecture Notes in Computer Science, 2001, , 660-670.	1.0	0
257	Permanency Memories in Scene Depth Analysis. Lecture Notes in Computer Science, 2005, , 531-536.	1.0	0
258	Lateral Interaction in Accumulative Computation: Motion-Based Grouping Method. Lecture Notes in Computer Science, 2005, , 396-405.	1.0	0
259	Comparison of Accumulative Computation with Traditional Optical Flow. Lecture Notes in Computer Science, 2007, , 447-454.	1.0	0
260	Vision-Based Text Segmentation System for Generic Display Units. Lecture Notes in Computer Science, 2009, , 225-234.	1.0	0
261	Environmental Impact Assessment by Multi-Agent Systems. Studies in Computational Intelligence, 2010, , 69-89.	0.7	0
262	Decision Making in Complex Systems with an Interdisciplinary Approach. Communications in Computer and Information Science, 2011, , 240-250.	0.4	0
263	Mobile Robot Localization through Identifying Spatial Relations from Detected Corners. Lecture Notes in Computer Science, 2011, , 371-380.	1.0	0
264	Development of a Code Generator for the ICARO Agent Framework. Lecture Notes in Computer Science, 2012, , 402-411.	1.0	0
265	Sensor-Driven Intelligent Ambient Agenda. Advances in Intelligent and Soft Computing, 2012, , 19-26.	0.2	0
266	Evaluation of a 3D Video Conference System Based on Multi-camera Motion Parallax. Lecture Notes in Computer Science, 2013, , 159-168.	1.0	0
267	Real-Time Detection of Pedestrians. Advances in Linguistics and Communication Studies, 2016, , 225-243.	0.2	0
268	Smart Computer-Assisted Cognitive Rehabilitation for Visually Impaired People. Advances in Intelligent Systems and Computing, 2017, , 121-130.	0.5	0
269	Use of Soft-Computing Techniques to Study the Influence of External Factors during the Emotional Evaluation of Visual Stimuli. J of Electrical Engineering, 2018, 6, .	0.1	0
270	Multilag Extension of Quadratic Sample Entropy for Distress Recognition with EEG Recordings. Advances in Intelligent Systems and Computing, 2019, , 274-281.	0.5	0

#	ARTICLE	IF	CITATIONS
271	An Innovative Tool to Get Better at Expressing Facial Emotions. <i>Advances in Intelligent Systems and Computing</i> , 2019, , 290-297.	0.5	0
272	Motorized Circular Rail with RGB-D Sensor on Cart for Physical Rehabilitation. <i>Advances in Intelligent Systems and Computing</i> , 2020, , 207-215.	0.5	0
273	The Underlying Formal Model of Algorithmic Lateral Inhibition in Motion Detection. <i>Lecture Notes in Computer Science</i> , 2007, , 119-129.	1.0	0
274	Step-by-Step Description of Lateral Interaction in Accumulative Computation. , 2007, , 518-525.		0
275	User-Centered Adaptive Web Sites: A Proposal for the Near Future. , 2006, , 257-265.		0