

# Ioannis Pavlidis

## List of Publications by Year in descending order

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Version: 2024-02-01

131  
papers

4,326  
citations

186265  
28  
h-index

144013  
57  
g-index

133  
all docs

133  
docs citations

133  
times ranked

2687  
citing authors

#	ARTICLE	IF	CITATIONS
1	Contact-Free Measurement of Cardiac Pulse Based on the Analysis of Thermal Imagery. IEEE Transactions on Biomedical Engineering, 2007, 54, 1418-1426.	4.2	331
2	Physiology-Based Face Recognition in the Thermal Infrared Spectrum. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2007, 29, 613-626.	13.9	268
3	Face recognition by fusing thermal infrared and visible imagery. Image and Vision Computing, 2006, 24, 727-742.	4.5	213
4	Seeing through the face of deception. Nature, 2002, 415, 35-35.	27.8	182
5	Interacting with human physiology. Computer Vision and Image Understanding, 2007, 108, 150-170.	4.7	160
6	Urban surveillance systems: from the laboratory to the commercial world. Proceedings of the IEEE, 2001, 89, 1478-1497.	21.3	157
7	Thermal image analysis for polygraph testing. IEEE Engineering in Medicine and Biology Magazine, 2002, 21, 56-64.	0.8	141
8	Thermistor at a Distance: Unobtrusive Measurement of Breathing. IEEE Transactions on Biomedical Engineering, 2010, 57, 988-998.	4.2	135
9	StressCam. , 2005, , .		121
10	Imaging Facial Signs of Neurophysiological Responses. IEEE Transactions on Biomedical Engineering, 2009, 56, 477-484.	4.2	121
11	Imaging Facial Physiology for the Detection of Deceit. International Journal of Computer Vision, 2007, 71, 197-214.	15.6	114
12	NEAT-o-Games. Computers in Entertainment, 2008, 6, 1-22.	1.1	110
13	Noncontact measurement of breathing function. IEEE Engineering in Medicine and Biology Magazine, 2006, 25, 57-67.	0.8	87
14	Physiology-Based Face Recognition in the Thermal Infrared Spectrum. , 2007, , 13-1-13-16.		87
15	Face Detection in the Near-IR Spectrum. Image and Vision Computing, 2003, 21, 565-578.	4.5	86
16	The face of fear. Lancet, The, 2001, 357, 1757.	13.7	85
17	The imaging issue in an automatic face/disguise detection system. , 0, , .		81
18	<title>Infrared and visible image fusion for face recognition</title>. , 2004, , .		81

#	ARTICLE	IF	CITATIONS
19	The rise of affectivism. <i>Nature Human Behaviour</i> , 2021, 5, 816-820.	12.0	77
20	Fast by Nature - How Stress Patterns Define Human Experience and Performance in Dexterous Tasks. <i>Scientific Reports</i> , 2012, 2, 305.	3.3	76
21	Thermal Infrared Imaging: A Novel Method to Monitor Airflow During Polysomnography. <i>Sleep</i> , 2009, 32, 1521-1527.	1.1	68
22	Perinasal Imaging of Physiological Stress and Its Affective Potential. <i>IEEE Transactions on Affective Computing</i> , 2012, 3, 366-378.	8.3	67
23	The Energy Expended in Chewing Gum. <i>New England Journal of Medicine</i> , 1999, 341, 2100-2100.	27.0	61
24	Touchless monitoring of breathing function. , 2004, 2004, 1196-9.		58
25	Facial Skin Surface Temperature Changes During a "Concealed Information" Test. <i>Annals of Biomedical Engineering</i> , 2006, 34, 1182-1189.	2.5	55
26	A multimodal dataset for various forms of distracted driving. <i>Scientific Data</i> , 2017, 4, 170110.	5.3	52
27	Spatiotemporal Smoothing as a Basis for Facial Tissue Tracking in Thermal Imaging. <i>IEEE Transactions on Biomedical Engineering</i> , 2013, 60, 1280-1289.	4.2	47
28	Fusion of Infrared and Visible Images for Face Recognition. <i>Lecture Notes in Computer Science</i> , 2004, , 456-468.	1.3	47
29	Coalitional tracking. <i>Computer Vision and Image Understanding</i> , 2007, 106, 205-219.	4.7	45
30	Dissecting Driver Behaviors Under Cognitive, Emotional, Sensorimotor, and Mixed Stressors. <i>Scientific Reports</i> , 2016, 6, 25651.	3.3	42
31	Estimation of blood flow speed and vessel location from thermal video. , 0, , .		40
32	Face Recognition in the Thermal Infrared Spectrum. , 0, , .		37
33	Forehead Thermal Signature Extraction in Lie Detection. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2007, 2007, 243-6.	0.5	36
34	O' game, can you feel my frustration?. , 2009, , .		36
35	The ability of human nuclear DNA to cause false positive low-abundance heteroplasmy calls varies across the mitochondrial genome. <i>BMC Genomics</i> , 2016, 17, 1017.	2.8	36
36	Analysis of Breathing Air Flow Patterns in Thermal Imaging. , 2006, 2006, 946-52.		33

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37	DETER: Detection of events for threat evaluation and recognition. Machine Vision and Applications, 2003, 15, 29-45.	2.7	32
38	Together we stand. Nature Physics, 2014, 10, 700-702.	16.7	30
39	A Quantitative Perspective on Ethics in Large Team Science. Science and Engineering Ethics, 2014, 20, 923-945.	2.9	28
40	Automatic detection of vehicle occupants: the imaging problem and its solution. Machine Vision and Applications, 2000, 11, 313-320.	2.7	26
41	A vehicle occupant counting system based on near-infrared phenomenology and fuzzy neural classification. IEEE Transactions on Intelligent Transportation Systems, 2000, 1, 72-85.	8.0	26
42	Virtual Thermistor. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 250-3.	0.5	25
43	An Empirical Study Comparing Unobtrusive Physiological Sensors for Stress Detection in Computer Work. Sensors, 2019, 19, 3766.	3.8	23
44	Imaging the Cardiovascular Pulse. , 0, , .		22
45	NEAT-o-games. , 2007, , .		21
46	Absence of Stressful Conditions Accelerates Dexterous Skill Acquisition in Surgery. Scientific Reports, 2019, 9, 1747.	3.3	21
47	Imaging Breathing Rate in the CO <sub>2</sub> Absorption Band. , 2005, 2006, 700-5.		20
48	Forecasting Markers of Habitual Driving Behaviors Associated With Crash Risk. IEEE Transactions on Intelligent Transportation Systems, 2020, 21, 841-851.	8.0	20
49	Tracking Human Breath in Infrared Imaging. , 0, , .		19
50	Email Makes You Sweat. , 2019, , .		18
51	Grand challenges and emergent modes of convergence science. Humanities and Social Sciences Communications, 2021, 8, .	2.9	18
52	Multispectral Face Recognition: Fusion of Visual Imagery with Physiological Information. , 2007, , 91-108.		18
53	Collaborative Tracking for MRI-Guided Robotic Intervention on the Beating Heart. Lecture Notes in Computer Science, 2010, 13, 351-358.	1.3	18
54	Monitoring of periorbital blood flow rate through thermal image analysis and its application to polygraph testing. , 0, , .		17

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55	Description and clinical studies of a device for the instantaneous detection of office-place stress. <i>Work</i> , 2009, 34, 359-364.	1.1	17
56	Cross-disciplinary evolution of the genomics revolution. <i>Science Advances</i> , 2018, 4, eaat4211.	10.3	17
57	Delineating the Operational Envelope of Mobile and Conventional EDA Sensing on Key Body Locations. , 2016, , .		16
58	Search committee diversity and applicant pool representation of women and underrepresented minorities: A quasi-experimental field study.. <i>Journal of Applied Psychology</i> , 2022, 107, 1414-1427.	5.3	16
59	Tissue Tracking in Thermo-physiological Imagery through Spatio-temporal Smoothing. <i>Lecture Notes in Computer Science</i> , 2009, 12, 1092-1099.	1.3	16
60	Face Recognition Beyond the Visible Spectrum. , 2008, , 157-180.		15
61	Continuous physiological monitoring. , 0, , .		14
62	An Accelerometer-Based Earpiece to Monitor and Quantify Physical Activity. <i>Journal of Physical Activity and Health</i> , 2009, 6, 781-789.	2.0	14
63	Life events and dementia: What is the nature of their relationship?. <i>Psychiatry Research</i> , 2011, 190, 156-158.	3.3	14
64	A Comparative Analysis of Thermal and Visual Modalities for Automated Facial Expression Recognition. <i>Lecture Notes in Computer Science</i> , 2012, , 51-60.	1.3	14
65	Harvesting the Thermal Cardiac Pulse Signal. <i>Lecture Notes in Computer Science</i> , 2006, 9, 569-576.	1.3	14
66	Signature identification through the use of deformable structures. <i>Signal Processing</i> , 1998, 71, 187-201.	3.7	13
67	Thermal Vision for Sleep Apnea Monitoring. <i>Lecture Notes in Computer Science</i> , 2009, 12, 1084-1091.	1.3	12
68	A novel method to monitor driver's distractions. , 2010, , .		12
69	Perinasal indicators of deceptive behavior. , 2015, , .		12
70	Automatic Thermal Monitoring System (ATHEMOS) for Deception Detection. , 0, , .		11
71	The Segmentation of the Supraorbital Vessels in Thermal Imagery. , 2008, , .		10
72	ON-LINE HANDWRITING RECOGNITION USING PHYSICS-BASED SHAPE METAMORPHOSIS. <i>Pattern Recognition</i> , 1998, 31, 1589-1600.	8.1	9

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73	Stress and productivity patterns of interrupted, synergistic, and antagonistic office activities. Scientific Data, 2019, 6, 264.	5.3	9
74	Off-line recognition of signatures using revolving active deformable models. , 0, , .		8
75	Counting Heartbeats at a Distance. , 2006, 2006, 228-31.		8
76	Periorbital thermal signal extraction and applications. , 2008, 2008, 102-5.		8
77	NEAT-o-Games. , 2008, , .		8
78	Physiological face recognition is coming of age. , 2009, , .		8
79	Making sense of accelerometer measurements in pervasive physical activity applications. , 2009, , .		7
80	Causality Effects of Interventions and Stressors on Driving Behaviors under Typical Conditions. Mathematics, 2018, 6, 139.	2.2	7
81	Emotional Footprints of Email Interruptions. , 2020, , .		7
82	Automatic selection of control points for deformable-model-based target tracking. , 0, , .		6
83	Automatic detection of vehicle passengers through near-infrared fusion. , 0, , .		6
84	Face detection in the near-IR spectrum. , 2003, 5074, 745.		6
85	Survey of potential receptivity to robotic-assisted exercise coaching in a diverse sample of smokers and nonsmokers. PLoS ONE, 2018, 13, e0197090.	2.5	6
86	Biometrics. The Electrical Engineering Handbook, 2006, , 29-1-29-48.	0.2	6
87	Recognition of 2D shapes through contour metamorphosis. , 0, , .		5
88	O job can you return my mojo. , 2010, , .		5
89	Dynamic Quantification of Migrainous Thermal Facial Patterns â€“ A Pilot Study. IEEE Journal of Biomedical and Health Informatics, 2019, 23, 1225-1233.	6.3	5
90	Biofeedback Arrests Sympathetic and Behavioral Effects in Distracted Driving. IEEE Transactions on Affective Computing, 2021, 12, 453-465.	8.3	5

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91	Spatiotemporal Reconstruction of the Breathing Function. Lecture Notes in Computer Science, 2012, 15, 149-156.	1.3	5
92	Recognition of on-line handwritten patterns through shape metamorphosis. , 1996, , .		4
93	On enhancing cardiac pulse measurements through thermal imaging. , 2009, , .		4
94	A novel way to conduct human studies and do some good. , 2010, , .		4
95	Eustressed or distressed?. , 2012, , .		4
96	Scholar Plot: Design and Evaluation of an Information Interface for Faculty Research Performance. Frontiers in Research Metrics and Analytics, 2019, 4, 6.	1.9	4
97	A near-infrared fusion scheme for automatic detection of vehicle passengers. , 0, , .		3
98	Contact-free Stress Monitoring for User's Divided Attention. , 2008, , .		3
99	Design and Usage of an Ozone Mapping App. , 2014, , .		3
100	Role model in human physical activity. , 2015, , .		3
101	Using Accelerometer Data to Estimate Surface Incline and Its Walking App Potential. , 2015, , .		3
102	Effects of Simple Personalized Goals on the Usage of a Physical Activity App. , 2016, , .		3
103	Connecting Past with Present: A Mixed-Methods Science Ethics Course and its Evaluation. Science and Engineering Ethics, 2016, 22, 251-274.	2.9	3
104	Coalitional Tracker for Deception Detection in Thermal Imagery. , 2009, , 113-137.		3
105	A Method to Monitor Operator Overloading. Lecture Notes in Computer Science, 2009, , 169-175.	1.3	3
106	A Probabilistic Template Update Method for Tracking Facial Tissue in Thermal Infrared. , 2008, , .		2
107	Automatic Initiation of the Periorbital Signal Extraction in Thermal Imagery. , 2009, , .		2
108	Who said monitoring is boring. , 2011, , .		2

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109	Interfacing real-time ozone information. , 2013, , .		2
110	Evaluating smartphone-based user interface designs for a 2D psychological questionnaire. , 2015, , .		2
111	SubjectBook. , 2016, , .		2
112	Turning security monitoring into an engaging high performance task. , 2016, , .		2
113	Dynamic 3D Print of the Breathing Function. , 2017, , .		2
114	Arousal Responses to Regular Acceleration Events Divide Drivers Into High and Low Groups. , 2021, , .		2
115	Laboratory evaluation of the accuracy of a triaxial accelerometer embedded into a cell phone platform for measuring physical activity. FASEB Journal, 2010, 24, 1044.5.	0.5	2
116	New methods of operational interviewing: utilizing non-contact sensors. , 2005, 5778, 553.		1
117	Face Recognition under the Skin. , 0, , 74-92.		1
118	Left endocardium tracking via collaborative trackers and shape prior. , 2012, , .		1
119	Physiology-Based Face Recognition in the Thermal Infrared Spectrum. , 2012, , 1-16.		1
120	Interfacing information in affective user studies. , 2014, , .		1
121	Perinasal indicators of malevolence. , 2015, , .		1
122	Under the Spell of Deadlines. , 2021, , .		1
123	Physiological face recognition is coming of age. , 2009, , .		1
124	A ground truth tool for Synthetic Aperture Radar (SAR) imagery. , 0, , .		0
125	Thermal Infrared Imaging during Polysomnography: Has the Time Come to Unwire the "Wired"™ Subjects?. , 2010, , 46-50.		0
126	Novel Computational Approach for Identification of Highly Mutated Integrated HIV Genomes. , 2017, , .		0



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127	Guest Editorial: IEEE-BIBE 2017 Special Issue "Advances on Neuro-Informatics", IEEE Journal of Biomedical and Health Informatics, 2019, 23, 1477-1478.	6.3	0
128	Video-Based Surveillance for Chem-Bio Protection of Buildings. , 2003, , 97-111.		0
129	Cardiac MRI Intervention and Diagnosis via Deformable Collaborative Tracking. Lecture Notes in Computer Science, 2011, , 188-194.	1.3	0
130	Grand Challenges and Emergent Modes of Convergence Science. SSRN Electronic Journal, 0, , .	0.4	0
131	Analysis of Breathing Air Flow Patterns in Thermal Imaging. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2006, , .	0.5	0