Christian Wallraven

List of Publications by Year
in descending order

124 papers	2,346 citations	236612 25 h-index	288905 40 g-index
139 all docs	139 docs citations	139 times ranked	2303 citing authors

#	Article	IF	Citations
1	Acoustic Cues Increase Situational Awareness in Accident Situations: A VR Car-Driving Study. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 3281-3291.	4.7	9
2	Explainable machine learning for memory-related decoding via TabNet and non-linear features^{â^—}. , 2022, , .		0
3	Comparing Facial Expression Recognition in Humans and Machines: Using CAM, GradCAM, and Extremal Perturbation. Lecture Notes in Computer Science, 2022, , 403-416.	1.0	2
4	Predicting driving speed from psychological metrics in a virtual reality car driving simulation. Scientific Reports, 2022, 12, .	1.6	7
5	Operant and classical learning principles underlying mindâ€“body interaction in pain modulation: a pilot fMRI study. Scientific Reports, 2021, 11, 1663.	1.6	5
6	Predominance of eyes and surface information for face race categorization. Scientific Reports, 2021, 11, 1927.	1.6	6
7	Myopia-correcting lenses decrease eye fatigue in a visual search task for both adolescents and adults. PLoS ONE, 2021, 16, e0258441.	1.1	2
8	Enhanced bodily states of fear facilitates bias perception of fearful faces. Molecular Brain, 2020, 13, 157.	1.3	2
9	Editorial: Tactile Intelligence in Robots. Frontiers in Neurorobotics, 2020, 14, 56.	1.6	1
10	EEG-Based Prediction of Successful Memory Formation During Vocabulary Learning. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2020, 28, 2377-2389.	2.7	4
11	3FabRec: Fast Few-Shot Face Alignment by Reconstruction. , 2020, , .		47
12	Deep neural networks process similar facial features compared to humans in facial expression recognition. IBRO Reports, 2019, 6, S193-S194.	0.3	2
13	Fingertip Interaction Metrics Correlate with Visual and Haptic Perception of Real Surfaces. , 2019, , .		23
14	Decoding spatial location of perceived pain to acupuncture needle using multivoxel pattern analysis. Molecular Pain, 2019, 15, 174480691987706.	1.0	6
15	Voluntary and spontaneous facial mimicry toward otherâ€™s emotional expression in patients with Parkinsonâ€™s disease. PLoS ONE, 2019, 14, e0214957.	1.1	17
16	To Brake or Not to Brake? Personality Traits Predict Decision-Making in an Accident Situation. Frontiers in Psychology, 2019, 10, 134.	1.1	21
17	Robust Discrimination and Generation of Faces using Compact, Disentangled Embeddings. , 2019, , .		1
18	Facial Expression Processing Is Not Affected by Parkinsonâ€™s Disease, but by Age-Related Factors. Frontiers in Psychology, 2019, 10, 2458.	1.1	5

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19	Manipulating and decoding subjective gaming experience during active gameplay: a multivariate, whole-brain analysis. NeuroImage, 2019, 188, 1-13.	2.1	14
20	A Preliminary Study for Translation and Validation of the Korean Version of The Cognitive, Affective, and Somatic Empathy Scale in Young Adults. Psychiatry Investigation, 2019, 16, 671-678.	0.7	1
21	Neuroanatomical correlates of haptic object processing: combined evidence from tractography and functional neuroimaging. Brain Structure and Function, 2018, 223, 619-633.	1.2	7
22	Visual and physical affective touch delivered by a rotary tactile stimulation device: A human psychophysical study. Physiology and Behavior, 2018, 185, 55-60.	1.0	2
23	A Survey of Viewpoint Selection Methods for Polygonal Models. Entropy, 2018, 20, 370.	1.1	27
24	Pop or not? EEG correlates of risk-taking behavior in the balloon analogue risk task. , 2017, , .		1
25	â€œCan touch thisâ€: Cross-modal shape categorization performance is associated with microstructural characteristics of white matter association pathways. Human Brain Mapping, 2017, 38, 842-854.	1.9	20
26	Cannot avert the eyes: reduced attentional blink toward othersâ€™ emotional expressions in empathic people. Psychonomic Bulletin and Review, 2017, 24, 810-820.	1.4	6
27	Bayesian prediction of placebo analgesia in an instrumental learning model. PLoS ONE, 2017, 12, e0172609.	1.1	19
28	Brain synchronization during perception of facial emotional expressions with natural and unnatural dynamics. PLoS ONE, 2017, 12, e0181225.	1.1	6
29	Role of interoceptive accuracy in topographical changes in emotion-induced bodily sensations. PLoS ONE, 2017, 12, e0183211.	1.1	21
30	Touch dominates vision in a shape processing task â€“ a virtual-reality study.. Journal of Vision, 2017, 17, 595.	0.1	0
31	An fMRI analysis of subjective experience during immersive gaming. Journal of Vision, 2017, 17, 993.	0.1	0
32	Perceived trustworthiness in economic and medical decision making. European Journal for Person Centered Healthcare, 2017, 5, 337.	0.3	0
33	Personality differences predict decision-making in an accident situation in virtual driving. , 2016, , .		4
34	Perceptual Robotics. , 2016, , 2095-2114.		3
35	Visual and Haptic Shape Processing in the Human Brain: Unisensory Processing, Multisensory Convergence, and Top-Down Influences. Cerebral Cortex, 2016, 26, 3402-3412.	1.6	44
36	Age matters, but disease does not: Comparing processing of emotional and communicational facial expressions across age and across prevalence of Parkinson's disease. Journal of Vision, 2016, 16, 1253.	0.1	0

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37	You not me: others' emotional facial expressions capture attention automatically â€“ but only for empathic people.. Journal of Vision, 2016, 16, 500.	0.1	0
38	Cortical Activation Patterns of Bodily Attention triggered by Acupuncture Stimulation. Scientific Reports, 2015, 5, 12455.	1.6	39
39	Adaptation of cortical activity to sustained pressure stimulation on the fingertip. BMC Neuroscience, 2015, 16, 71.	0.8	18
40	Sensorimotor Learning of Acupuncture Needle Manipulation Using Visual Feedback. PLoS ONE, 2015, 10, e0139340.	1.1	11
41	When pain is not only pain: Inserting needles into the body evokes distinct reward-related brain responses in the context of a treatment. Physiology and Behavior, 2015, 140, 148-155.	1.0	24
42	Psychophysical and neurophysiological responses to acupuncture stimulation to incorporated rubber hand. Neuroscience Letters, 2015, 591, 48-52.	1.0	22
43	Brain Responses to Acupuncture Stimulation in the Prosthetic Hand of An Amputee Patient. Acupuncture in Medicine, 2015, 33, 420-424.	0.4	7
44	Abstract Representations of Associated Emotions in the Human Brain. Journal of Neuroscience, 2015, 35, 5655-5663.	1.7	36
45	Across Cultures: A Cognitive and Computational Analysis of Emotional and Conversational Facial Expressions in Germany and Korea. Trends in Augmentation of Human Performance, 2015, , 97-108.	0.4	1
46	Decoding Accuracy in Supplementary Motor Cortex Correlates with Perceptual Sensitivity to Tactile Roughness. PLoS ONE, 2015, 10, e0129777.	1.1	22
47	â€œWe remember what we like?â€• Aesthetic value and memorability for photos and artworks - a combined behavioral and computational study. Journal of Vision, 2015, 15, 87.	0.1	0
48	Neuroanatomical correlates of cross-modal transfer performance in object categorization: from vision to touch. Journal of Vision, 2015, 15, 361.	0.1	0
49	The eyes grasp, the hands see: Metric category knowledge transfers between vision and touch. Psychonomic Bulletin and Review, 2014, 21, 976-985.	1.4	26
50	Do congenital prosopagnosia and the other-race effect affect the same face recognition mechanisms?. Frontiers in Human Neuroscience, 2014, 8, 759.	1.0	11
51	Data-driven multisubject neuroimaging analyses for naturalistic stimuli. , 2014, , .		0
52	The semantic space for facial communication. Computer Animation and Virtual Worlds, 2014, 25, 223-231.	0.7	8
53	Haptic Simulation for Acupuncture Needle Manipulation. Journal of Alternative and Complementary Medicine, 2014, 20, 654-660.	2.1	11
54	Across-subject estimation of 3-back task performance using EEG signals. , 2014, , .		0

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55	Touching on face space: Comparing visual and haptic processing of face shapes. Psychonomic Bulletin and Review, 2014, 21, 995-1002.	1.4	9
56	Psychological distress and attentional bias toward acne lesions in patients with acne. Psychology, Health and Medicine, 2014, 19, 680-686.	1.3	11
57	Active In-Hand Object Recognition on a Humanoid Robot. IEEE Transactions on Robotics, 2014, 30, 1260-1269.	7.3	20
58	Intra- and inter-hemispheric effective connectivity in the human somatosensory cortex during pressure stimulation. BMC Neuroscience, 2014, 15, 43.	0.8	30
59	Decreased Peripheral and Central Responses to Acupuncture Stimulation following Modification of Body Ownership. PLoS ONE, 2014, 9, e109489.	1.1	20
60	Learning to recognize face shapes through serial exploration. Experimental Brain Research, 2013, 226, 513-523.	0.7	3
61	Exploiting object constancy: effects of active exploration and shape morphing on similarity judgments of novel objects. Experimental Brain Research, 2013, 225, 277-289.	0.7	6
62	Recognizing Conversational Expressions Using Latent Dynamic Conditional Random Fields. , 2013, , .		0
63	Visualizing Natural Image Statistics. IEEE Transactions on Visualization and Computer Graphics, 2013, 19, 1228-1241.	2.9	6
64	Inserting Needles Into the Body: A Meta-Analysis of Brain Activity Associated With Acupuncture Needle Stimulation. Journal of Pain, 2013, 14, 215-222.	0.7	161
65	An amplification of feedback from facial muscles strengthened sympathetic activations to emotional facial cues. Autonomic Neuroscience: Basic and Clinical, 2013, 179, 37-42.	1.4	16
66	Modifying Bodily Self-Awareness during Acupuncture Needle Stimulation Using the Rubber Hand Illusion. Evidence-based Complementary and Alternative Medicine, 2013, 2013, 1-7.	0.5	10
67	Cardiff Conversation Database (CCDb): A Database of Natural Dyadic Conversations. , 2013, , .		21
68	Visual experience is necessary for efficient haptic face recognition. NeuroReport, 2013, 24, 254-258.	0.6	7
69	Estimation of the Horizon in Photographed Outdoor Scenes by Human and Machine. PLoS ONE, 2013, 8, e81462.	1.1	5
70	The Face Speaks: Contextual and Temporal Sensitivity to Backchannel Responses. Lecture Notes in Computer Science, 2013, , 248-259.	1.0	1
71	Multisensory Shape Processing. , 2013, , 473-483.		0
72	BIASED MANIFOLD LEARNING FOR VIEW INVARIANT BODY POSE ESTIMATION. International Journal of Wavelets, Multiresolution and Information Processing, 2012, 10, 1250058.	0.9	1

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73	A morphable 3D-model of Korean faces. , 2012, , .		6
74	Active object recognition on a humanoid robot. , 2012, , .		42
75	Supervised manifold learning based on biased distance for view invariant body pose estimation. , 2012, , .		2
76	Face recognition with enhanced local gabor binary pattern from human fixations. , 2012, , .		3
77	The MPI Facial Expression Database â€" A Validated Database of Emotional and Conversational Facial Expressions. PLoS ONE, 2012, 7, e32321.	1.1	132
78	Serial exploration of faces: Comparing vision and touch. Journal of Vision, 2012, 12, 6-6.	0.1	27
79	Categorizing natural objects: a comparison of the visual and the haptic modalities. Experimental Brain Research, 2012, 216, 123-134.	0.7	35
80	Integrating visual and haptic shape information to form a multimodal perceptual space. , 2011, , .		1
81	Going into depth: Evaluating 2D and 3D cues for object classification on a new, large-scale object dataset. , 2011, , .		51
82	Perception-motivated interpolation of image sequences. ACM Transactions on Applied Perception, 2011, 8, 1-25.	1.2	29
83	Similarity and categorization: From vision to touch. Acta Psychologica, 2011, 138, 219-230.	0.7	27
84	The POETICON enacted scenario corpus — A tool for human and computational experiments on action understanding. , 2011, , .		12
85	Dynamic Aspects of Face Processing in Humans. , 2011, , 575-596.		3
86	Second-Order Relational Manipulations Affect Both Humans and Monkeys. PLoS ONE, 2011, 6, e25793.	1.1	8
87	Visual and haptic perceptual spaces show high similarity in humans. Journal of Vision, 2010, 10, 2-2.	0.1	42
88	The Thatcher illusion in humans and monkeys. Proceedings of the Royal Society B: Biological Sciences, 2010, 277, 2973-2981.	1.2	30
89	View Invariant Body Pose Estimation Based on Biased Manifold Learning. , 2010, , .		4
90	Multidimensional scaling analysis of haptic exploratory procedures. ACM Transactions on Applied Perception, 2010, 7, 1-17.	1.2	13

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91	Horizon estimation. , 2010, , .		5
92	Perceptual representations of parametrically-defined and natural objects comparing vision and haptics. , 2010, , .		2
93	Dynamic information for the recognition of conversational expressions. Journal of Vision, 2009, 9, 7-7.	0.1	93
94	Cross-Modal Transfer in Visual and Haptic Face Recognition. IEEE Transactions on Haptics, 2009, 2, 236-240.	1.8	16
95	Humans and Macaques Employ Similar Face-Processing Strategies. Current Biology, 2009, 19, 509-513.	1.8	112
96	Categorizing art: Comparing humans and computers. Computers and Graphics, 2009, 33, 484-495.	1.4	48
97	Two Routes to Face Perception: Evidence From Psychophysics and Computational Modeling. Cognitive Science, 2009, 33, 1413-1440.	0.8	26
98	Evaluating the perceptual realism of animated facial expressions. ACM Transactions on Applied Perception, 2008, 4, 1-20.	1.2	54
99	Perception-motivated interpolation of image sequences. , 2008, , .		20
100	In The Eye of The Beholder: The Perception of Indeterminate Art. Leonardo, 2008, 41, 116-117.	0.2	2
101	The contribution of different facial regions to the recognition of conversational expressions. Journal of Vision, 2008, 8, 1-1.	0.1	117
102	Perceptual Robotics. , 2008, , 1481-1498.		4
103	Analyzing Perceptual Representations of Complex, Parametrically-Defined Shapes Using MDS. Lecture Notes in Computer Science, 2008, , 265-274.	1.0	2
104	Psychophysical investigation of facial expressions using computer animated faces. , 2007, , .		13
105	Using 3D computer graphics for perception. , 2007, , .		4
106	Evaluation of real-world and computer-generated stylized facial expressions. ACM Transactions on Applied Perception, 2007, 4, 16.	1.2	29
107	Categorization of natural scenes. ACM Transactions on Applied Perception, 2007, 4, 19.	1.2	28
108	Psychophysics for perception of (in)determinate art. , 2007, , .		4

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109	Multimodal similarity and categorization of novel, three-dimensional objects. Neuropsychologia, 2007, 45, 484-495.	0.7	69
110	Object Recognition in Humans and Machines. , 2007, , 89-104.		4
111	The evaluation of stylized facial expressions. , 2006, , .		7
112	Categorization of natural scenes. , 2006, , .		25
113	Processing of facial identity and expression: a psychophysical, physiological, and computational perspective. Progress in Brain Research, 2006, 156, 321-343.	0.9	42
114	Object feature validation using visual and haptic similarity ratings. ACM Transactions on Applied Perception, 2006, 3, 239-261.	1.2	18
115	Learning from humans: Computational modeling of face recognition. Network: Computation in Neural Systems, 2005, 16, 401-418.	2.2	21
116	Psychophysical evaluation of animated facial expressions. , 2005, , .		17
117	Manipulating Video Sequences to Determine the Components of Conversational Facial Expressions. ACM Transactions on Applied Perception, 2005, 2, 251-269.	1.2	37
118	A similarity-based approach to perceptual feature validation. , 2005, , .		1
119	The role of characteristic motion in object categorization. Journal of Vision, 2004, 4, 5.	0.1	34
120	View dependence of complex versus simple facial motions. , 2004, , .		9
121	The role of image size in the recognition of conversational facial expressions. Computer Animation and Virtual Worlds, 2004, 15, 305-310.	0.7	11
122	Computational Modeling of Face Recognition Based on Psychophysical Experiments. Swiss Journal of Psychology, 2004, 63, 207-215.	0.9	17
123	View-Based Recognition of Faces in Man and Machine: Re-visiting Inter-extra-Ortho. Lecture Notes in Computer Science, 2002, , 651-660.	1.0	28
124	Multimodal Categorization. , 0, , 488-501.		0