

# Christian Wallraven

## List of Publications by Year in descending order

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Version: 2024-02-01

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	Inserting Needles Into the Body: A Meta-Analysis of Brain Activity Associated With Acupuncture Needle Stimulation. <i>Journal of Pain</i> , 2013, 14, 215-222.	0.7	161
2	The MPI Facial Expression Database – A Validated Database of Emotional and Conversational Facial Expressions. <i>PLoS ONE</i> , 2012, 7, e32321.	1.1	132
3	The contribution of different facial regions to the recognition of conversational expressions. <i>Journal of Vision</i> , 2008, 8, 1-1.	0.1	117
4	Humans and Macaques Employ Similar Face-Processing Strategies. <i>Current Biology</i> , 2009, 19, 509-513.	1.8	112
5	Dynamic information for the recognition of conversational expressions. <i>Journal of Vision</i> , 2009, 9, 7-7.	0.1	93
6	Multimodal similarity and categorization of novel, three-dimensional objects. <i>Neuropsychologia</i> , 2007, 45, 484-495.	0.7	69
7	Evaluating the perceptual realism of animated facial expressions. <i>ACM Transactions on Applied Perception</i> , 2008, 4, 1-20.	1.2	54
8	Going into depth: Evaluating 2D and 3D cues for object classification on a new, large-scale object dataset. , 2011, , .		51
9	Categorizing art: Comparing humans and computers. <i>Computers and Graphics</i> , 2009, 33, 484-495.	1.4	48
10	3FabRec: Fast Few-Shot Face Alignment by Reconstruction. , 2020, , .		47
11	Visual and Haptic Shape Processing in the Human Brain: Unisensory Processing, Multisensory Convergence, and Top-Down Influences. <i>Cerebral Cortex</i> , 2016, 26, 3402-3412.	1.6	44
12	Processing of facial identity and expression: a psychophysical, physiological, and computational perspective. <i>Progress in Brain Research</i> , 2006, 156, 321-343.	0.9	42
13	Visual and haptic perceptual spaces show high similarity in humans. <i>Journal of Vision</i> , 2010, 10, 2-2.	0.1	42
14	Active object recognition on a humanoid robot. , 2012, , .		42
15	Cortical Activation Patterns of Bodily Attention triggered by Acupuncture Stimulation. <i>Scientific Reports</i> , 2015, 5, 12455.	1.6	39
16	Manipulating Video Sequences to Determine the Components of Conversational Facial Expressions. <i>ACM Transactions on Applied Perception</i> , 2005, 2, 251-269.	1.2	37
17	Abstract Representations of Associated Emotions in the Human Brain. <i>Journal of Neuroscience</i> , 2015, 35, 5655-5663.	1.7	36
18	Categorizing natural objects: a comparison of the visual and the haptic modalities. <i>Experimental Brain Research</i> , 2012, 216, 123-134.	0.7	35

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19	The role of characteristic motion in object categorization. <i>Journal of Vision</i> , 2004, 4, 5.	0.1	34
20	The Thatcher illusion in humans and monkeys. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2010, 277, 2973-2981.	1.2	30
21	Intra- and inter-hemispheric effective connectivity in the human somatosensory cortex during pressure stimulation. <i>BMC Neuroscience</i> , 2014, 15, 43.	0.8	30
22	Evaluation of real-world and computer-generated stylized facial expressions. <i>ACM Transactions on Applied Perception</i> , 2007, 4, 16.	1.2	29
23	Perception-motivated interpolation of image sequences. <i>ACM Transactions on Applied Perception</i> , 2011, 8, 1-25.	1.2	29
24	Categorization of natural scenes. <i>ACM Transactions on Applied Perception</i> , 2007, 4, 19.	1.2	28
25	View-Based Recognition of Faces in Man and Machine: Re-visiting Inter-extra-Ortho. <i>Lecture Notes in Computer Science</i> , 2002, , 651-660.	1.0	28
26	Similarity and categorization: From vision to touch. <i>Acta Psychologica</i> , 2011, 138, 219-230.	0.7	27
27	Serial exploration of faces: Comparing vision and touch. <i>Journal of Vision</i> , 2012, 12, 6-6.	0.1	27
28	A Survey of Viewpoint Selection Methods for Polygonal Models. <i>Entropy</i> , 2018, 20, 370.	1.1	27
29	Two Routes to Face Perception: Evidence From Psychophysics and Computational Modeling. <i>Cognitive Science</i> , 2009, 33, 1413-1440.	0.8	26
30	The eyes grasp, the hands see: Metric category knowledge transfers between vision and touch. <i>Psychonomic Bulletin and Review</i> , 2014, 21, 976-985.	1.4	26
31	Categorization of natural scenes. , 2006, , .		25
32	When pain is not only pain: Inserting needles into the body evokes distinct reward-related brain responses in the context of a treatment. <i>Physiology and Behavior</i> , 2015, 140, 148-155.	1.0	24
33	Fingertip Interaction Metrics Correlate with Visual and Haptic Perception of Real Surfaces. , 2019, , .		23
34	Psychophysical and neurophysiological responses to acupuncture stimulation to incorporated rubber hand. <i>Neuroscience Letters</i> , 2015, 591, 48-52.	1.0	22
35	Decoding Accuracy in Supplementary Motor Cortex Correlates with Perceptual Sensitivity to Tactile Roughness. <i>PLoS ONE</i> , 2015, 10, e0129777.	1.1	22
36	Learning from humans: Computational modeling of face recognition. <i>Network: Computation in Neural Systems</i> , 2005, 16, 401-418.	2.2	21

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37	Cardiff Conversation Database (CCDb): A Database of Natural Dyadic Conversations. , 2013, , .		21
38	To Brake or Not to Brake? Personality Traits Predict Decision-Making in an Accident Situation. Frontiers in Psychology, 2019, 10, 134.	1.1	21
39	Role of interoceptive accuracy in topographical changes in emotion-induced bodily sensations. PLoS ONE, 2017, 12, e0183211.	1.1	21
40	Perception-motivated interpolation of image sequences. , 2008, , .		20
41	Active In-Hand Object Recognition on a Humanoid Robot. IEEE Transactions on Robotics, 2014, 30, 1260-1269.	7.3	20
42	“Can touch this” 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
43	Decreased Peripheral and Central Responses to Acupuncture Stimulation following Modification of Body Ownership. PLoS ONE, 2014, 9, e109489.	1.1	20
44	Bayesian prediction of placebo analgesia in an instrumental learning model. PLoS ONE, 2017, 12, e0172609.	1.1	19
45	Object feature validation using visual and haptic similarity ratings. ACM Transactions on Applied Perception, 2006, 3, 239-261.	1.2	18
46	Adaptation of cortical activity to sustained pressure stimulation on the fingertip. BMC Neuroscience, 2015, 16, 71.	0.8	18
47	Psychophysical evaluation of animated facial expressions. , 2005, , .		17
48	Voluntary and spontaneous facial mimicry toward other’s emotional expression in patients with Parkinson’s disease. PLoS ONE, 2019, 14, e0214957.	1.1	17
49	Computational Modeling of Face Recognition Based on Psychophysical Experiments. Swiss Journal of Psychology, 2004, 63, 207-215.	0.9	17
50	Cross-Modal Transfer in Visual and Haptic Face Recognition. IEEE Transactions on Haptics, 2009, 2, 236-240.	1.8	16
51	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
52	Manipulating and decoding subjective gaming experience during active gameplay: a multivariate, whole-brain analysis. NeuroImage, 2019, 188, 1-13.	2.1	14
53	Psychophysical investigation of facial expressions using computer animated faces. , 2007, , .		13
54	Multidimensional scaling analysis of haptic exploratory procedures. ACM Transactions on Applied Perception, 2010, 7, 1-17.	1.2	13

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55	The POETICON enacted scenario corpus &#x2014; A tool for human and computational experiments on action understanding. , 2011, , .		12
56	The role of image size in the recognition of conversational facial expressions. Computer Animation and Virtual Worlds, 2004, 15, 305-310.	0.7	11
57	Do congenital prosopagnosia and the other-race effect affect the same face recognition mechanisms?. Frontiers in Human Neuroscience, 2014, 8, 759.	1.0	11
58	Haptic Simulation for Acupuncture Needle Manipulation. Journal of Alternative and Complementary Medicine, 2014, 20, 654-660.	2.1	11
59	Psychological distress and attentional bias toward acne lesions in patients with acne. Psychology, Health and Medicine, 2014, 19, 680-686.	1.3	11
60	Sensorimotor Learning of Acupuncture Needle Manipulation Using Visual Feedback. PLoS ONE, 2015, 10, e0139340.	1.1	11
61	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
62	View dependence of complex versus simple facial motions. , 2004, , .		9
63	Touching on face space: Comparing visual and haptic processing of face shapes. Psychonomic Bulletin and Review, 2014, 21, 995-1002.	1.4	9
64	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
65	The semantic space for facial communication. Computer Animation and Virtual Worlds, 2014, 25, 223-231.	0.7	8
66	Second-Order Relational Manipulations Affect Both Humans and Monkeys. PLoS ONE, 2011, 6, e25793.	1.1	8
67	The evaluation of stylized facial expressions. , 2006, , .		7
68	Visual experience is necessary for efficient haptic face recognition. NeuroReport, 2013, 24, 254-258.	0.6	7
69	Brain Responses to Acupuncture Stimulation in the Prosthetic Hand of An Amputee Patient. Acupuncture in Medicine, 2015, 33, 420-424.	0.4	7
70	Neuroanatomical correlates of haptic object processing: combined evidence from tractography and functional neuroimaging. Brain Structure and Function, 2018, 223, 619-633.	1.2	7
71	Predicting driving speed from psychological metrics in a virtual reality car driving simulation. Scientific Reports, 2022, 12, .	1.6	7
72	A morphable 3D-model of Korean faces. , 2012, , .		6

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73	Exploiting object constancy: effects of active exploration and shape morphing on similarity judgments of novel objects. <i>Experimental Brain Research</i> , 2013, 225, 277-289.	0.7	6
74	Visualizing Natural Image Statistics. <i>IEEE Transactions on Visualization and Computer Graphics</i> , 2013, 19, 1228-1241.	2.9	6
75	Cannot avert the eyes: reduced attentional blink toward others's emotional expressions in empathic people. <i>Psychonomic Bulletin and Review</i> , 2017, 24, 810-820.	1.4	6
76	Decoding spatial location of perceived pain to acupuncture needle using multivoxel pattern analysis. <i>Molecular Pain</i> , 2019, 15, 174480691987706.	1.0	6
77	Predominance of eyes and surface information for face race categorization. <i>Scientific Reports</i> , 2021, 11, 1927.	1.6	6
78	Brain synchronization during perception of facial emotional expressions with natural and unnatural dynamics. <i>PLoS ONE</i> , 2017, 12, e0181225.	1.1	6
79	Horizon estimation. , 2010, , .		5
80	Estimation of the Horizon in Photographed Outdoor Scenes by Human and Machine. <i>PLoS ONE</i> , 2013, 8, e81462.	1.1	5
81	Facial Expression Processing Is Not Affected by Parkinson's Disease, but by Age-Related Factors. <i>Frontiers in Psychology</i> , 2019, 10, 2458.	1.1	5
82	Operant and classical learning principles underlying mind-body interaction in pain modulation: a pilot fMRI study. <i>Scientific Reports</i> , 2021, 11, 1663.	1.6	5
83	Using 3D computer graphics for perception. , 2007, , .		4
84	Psychophysics for perception of (in)determinate art. , 2007, , .		4
85	View Invariant Body Pose Estimation Based on Biased Manifold Learning. , 2010, , .		4
86	Personality differences predict decision-making in an accident situation in virtual driving. , 2016, , .		4
87	EEG-Based Prediction of Successful Memory Formation During Vocabulary Learning. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2020, 28, 2377-2389.	2.7	4
88	Perceptual Robotics. , 2008, , 1481-1498.		4
89	Object Recognition in Humans and Machines. , 2007, , 89-104.		4
90	Face recognition with enhanced local gabor binary pattern from human fixations. , 2012, , .		3

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91	Learning to recognize face shapes through serial exploration. <i>Experimental Brain Research</i> , 2013, 226, 513-523.	0.7	3
92	Perceptual Robotics. , 2016, , 2095-2114.		3
93	Dynamic Aspects of Face Processing in Humans. , 2011, , 575-596.		3
94	In The Eye of The Beholder: The Perception of Indeterminate Art. <i>Leonardo</i> , 2008, 41, 116-117.	0.2	2
95	Perceptual representations of parametrically-defined and natural objects comparing vision and haptics. , 2010, , .		2
96	Supervised manifold learning based on biased distance for view invariant body pose estimation. , 2012, , .		2
97	Visual and physical affective touch delivered by a rotary tactile stimulation device: A human psychophysical study. <i>Physiology and Behavior</i> , 2018, 185, 55-60.	1.0	2
98	Deep neural networks process similar facial features compared to humans in facial expression recognition. <i>IBRO Reports</i> , 2019, 6, S193-S194.	0.3	2
99	Enhanced bodily states of fear facilitates bias perception of fearful faces. <i>Molecular Brain</i> , 2020, 13, 157.	1.3	2
100	Analyzing Perceptual Representations of Complex, Parametrically-Defined Shapes Using MDS. <i>Lecture Notes in Computer Science</i> , 2008, , 265-274.	1.0	2
101	Myopia-correcting lenses decrease eye fatigue in a visual search task for both adolescents and adults. <i>PLoS ONE</i> , 2021, 16, e0258441.	1.1	2
102	Comparing Facial Expression Recognition in Humans and Machines: Using CAM, GradCAM, and Extremal Perturbation. <i>Lecture Notes in Computer Science</i> , 2022, , 403-416.	1.0	2
103	A similarity-based approach to perceptual feature validation. , 2005, , .		1
104	Integrating visual and haptic shape information to form a multimodal perceptual space. , 2011, , .		1
105	BIASED MANIFOLD LEARNING FOR VIEW INVARIANT BODY POSE ESTIMATION. <i>International Journal of Wavelets, Multiresolution and Information Processing</i> , 2012, 10, 1250058.	0.9	1
106	Pop or not? EEG correlates of risk-taking behavior in the balloon analogue risk task. , 2017, , .		1
107	Robust Discrimination and Generation of Faces using Compact, Disentangled Embeddings. , 2019, , .		1
108	Editorial: Tactile Intelligence in Robots. <i>Frontiers in Neurorobotics</i> , 2020, 14, 56.	1.6	1

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109	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
110	The Face Speaks: Contextual and Temporal Sensitivity to Backchannel Responses. Lecture Notes in Computer Science, 2013, , 248-259.	1.0	1
111	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
112	Multimodal Categorization. , 0, , 488-501.		0
113	Recognizing Conversational Expressions Using Latent Dynamic Conditional Random Fields. , 2013, , .		0
114	Data-driven multisubject neuroimaging analyses for naturalistic stimuli. , 2014, , .		0
115	Across-subject estimation of 3-back task performance using EEG signals. , 2014, , .		0
116	Multisensory Shape Processing. , 2013, , 473-483.		0
117	“We remember what we like?” Aesthetic value and memorability for photos and artworks - a combined behavioral and computational study. Journal of Vision, 2015, 15, 87.	0.1	0
118	Neuroanatomical correlates of cross-modal transfer performance in object categorization: from vision to touch. Journal of Vision, 2015, 15, 361.	0.1	0
119	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
120	You not me: others’ emotional facial expressions capture attention automatically “ but only for empathic people.. Journal of Vision, 2016, 16, 500.	0.1	0
121	Touch dominates vision in a shape processing task “ a virtual-reality study.. Journal of Vision, 2017, 17, 595.	0.1	0
122	An fMRI analysis of subjective experience during immersive gaming. Journal of Vision, 2017, 17, 993.	0.1	0
123	Perceived trustworthiness in economic and medical decision making. European Journal for Person Centered Healthcare, 2017, 5, 337.	0.3	0
124	Explainable machine learning for memory-related decoding via TabNet and non-linear features<sup>^</sup>. , 2022, , .		0