

# Roberta L Klatzky

## List of Publications by Year in descending order

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Version: 2024-02-01

66  
papers

2,313  
citations

393982

19  
h-index

243296

44  
g-index

69  
all docs

69  
docs citations

69  
times ranked

1675  
citing authors

#	ARTICLE	IF	CITATIONS
1	Spatial Updating of Self-Position and Orientation During Real, Imagined, and Virtual Locomotion. <i>Psychological Science</i> , 1998, 9, 293-298.	1.8	402
2	Navigation System for the Blind: Auditory Display Modes and Guidance. <i>Presence: Teleoperators and Virtual Environments</i> , 1998, 7, 193-203.	0.3	258
3	Tactile roughness perception with a rigid link interposed between skin and surface. <i>Perception &amp; Psychophysics</i> , 1999, 61, 591-607.	2.3	179
4	Feeling textures through a probe: Effects of probe and surface geometry and exploratory factors. <i>Perception &amp; Psychophysics</i> , 2003, 65, 613-631.	2.3	138
5	An empirical study of latency in an emerging class of edge computing applications for wearable cognitive assistance. , 2017, , .		135
6	Effects of Object Texture on Precontact Movement Time in Human Prehension. <i>Journal of Motor Behavior</i> , 1994, 26, 325-332.	0.5	116
7	Sensing and Displaying Spatially Distributed Fingertip Forces in Haptic Interfaces for Teleoperator and Virtual Environment Systems. <i>Presence: Teleoperators and Virtual Environments</i> , 1999, 8, 86-103.	0.3	96
8	Cognitive load of navigating without vision when guided by virtual sound versus spatial language.. <i>Journal of Experimental Psychology: Applied</i> , 2006, 12, 223-232.	0.9	85
9	Cognitive representations of functional interactions with objects. <i>Memory and Cognition</i> , 1993, 21, 294-303.	0.9	71
10	Path completion after haptic exploration without vision: Implications for haptic spatial representations. <i>Perception &amp; Psychophysics</i> , 1999, 61, 220-235.	2.3	68
11	Encoding, learning, and spatial updating of multiple object locations specified by 3-D sound, spatial language, and vision. <i>Experimental Brain Research</i> , 2003, 149, 48-61.	0.7	65
12	Nonvisual Route following with Guidance from a Simple Haptic or Auditory Display. <i>Journal of Visual Impairment and Blindness</i> , 2007, 101, 203-211.	0.4	56
13	Please Touch: Object Properties that Invite Touch. <i>IEEE Transactions on Haptics</i> , 2012, 5, 139-147.	1.8	53
14	Human navigation ability: Tests of the encoding-error model of path integration. <i>Spatial Cognition and Computation</i> , 1999, 1, 31-65.	0.6	50
15	Haptic object perception: spatial dimensionality and relation to vision. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2011, 366, 3097-3105.	1.8	46
16	Evidence for Amodal Representations after Bimodal Learning: Integration of Haptic-Visual Layouts into a Common Spatial Image. <i>Spatial Cognition and Computation</i> , 2009, 9, 287-304.	0.6	32
17	Learning Directions of Objects Specified by Vision, Spatial Audition, or Auditory Spatial Language. <i>Learning and Memory</i> , 2002, 9, 364-367.	0.5	31
18	Good vibrations: Asymmetric vibrations for directional haptic cues. , 2009, , .		25

#	ARTICLE	IF	CITATIONS
19	Representing spatial location and layout from sparse kinesthetic contacts.. Journal of Experimental Psychology: Human Perception and Performance, 2003, 29, 310-325.	0.7	23
20	Roughness Perception in Virtual Textures. IEEE Transactions on Haptics, 2011, 4, 122-133.	1.8	23
21	On the relation between motor imagery and visual imagery. Behavioral and Brain Sciences, 1994, 17, 212-213.	0.4	22
22	Spatial Representations From Perception and Cognitive Mediation. Current Directions in Psychological Science, 2008, 17, 359-364.	2.8	16
23	Watching a Cursor Distorts Haptically Guided Reproduction of Mouse Movement.. Journal of Experimental Psychology: Applied, 2003, 9, 228-235.	0.9	16
24	The Perceptual Basis of Vast Space. Psychonomic Bulletin and Review, 2017, 24, 1870-1878.	1.4	14
25	Learning efficient haptic shape exploration with a rigid tactile sensor array. PLoS ONE, 2020, 15, e0226880.	1.1	14
26	Intermanual apparent tactile motion on handheld tablets. , 2015, , .		13
27	Perceiving texture gradients on an electrostatic friction display. , 2017, , .		13
28	Single pitch perception of multi-frequency textures. , 2018, , .		13
29	Visual, tangible, and touch-screen: Comparison of platforms for displaying simple graphics. Assistive Technology, 2016, 28, 1-6.	1.2	11
30	Cross-modal correspondence between vibrations and colors. , 2017, , .		11
31	Combining Locations from Working Memory and Long-Term Memory into a Common Spatial Image. Spatial Cognition and Computation, 2013, 13, 103-128.	0.6	10
32	FingerSight: A Vibrotactile Wearable Ring for Assistance With Locating and Reaching Objects in Peripersonal Space. IEEE Transactions on Haptics, 2020, 13, 325-333.	1.8	10
33	Building a Navigable Fine Texture Design Space. IEEE Transactions on Haptics, 2021, 14, 897-906.	1.8	10
34	Roughness rendering by sinusoidal friction modulation: Perceived intensity and gradient discrimination. , 2019, , .		9
35	Localized Rendering of Button Click Sensation via Active Lateral Force Feedback. , 2019, , .		9
36	Psychophysical Evaluation of Haptic Perception Under Augmentation by a Handheld Device. Human Factors, 2015, 57, 523-537.	2.1	8

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37	Impact of delayed response on wearable cognitive assistance. PLoS ONE, 2021, 16, e0248690.	1.1	8
38	A recursive Bayesian updating model of haptic stiffness perception.. Journal of Experimental Psychology: Human Perception and Performance, 2018, 44, 941-952.	0.7	8
39	An n-back task using vibrotactile stimulation with comparison to an auditory analogue. Behavior Research Methods, 2008, 40, 367-372.	2.3	7
40	Visual-Haptic Perception of Compliance: Fusion of Visual and Haptic Information. , 2008, , .		7
41	The Geometric Model for Perceived Roughness Applies to Virtual Textures. , 2008, , .		7
42	SPATIAL UPDATING OF HAPTIC ARRAYS ACROSS THE LIFE SPAN. Experimental Aging Research, 2017, 43, 274-290.	0.6	7
43	Detection and Identification of Pattern Information on an Electrostatic Friction Display. IEEE Transactions on Haptics, 2019, 12, 665-670.	1.8	7
44	A model of motor performance during surface penetration: from physics to voluntary control. Experimental Brain Research, 2013, 230, 251-260.	0.7	6
45	Effects of virtual acoustics on dynamic auditory distance perception. Journal of the Acoustical Society of America, 2017, 141, EL427-EL432.	0.5	6
46	Tilt Perception by Constant Tactile and Constant Proprioceptive Feedback through a Human System Interface. , 2007, , .		5
47	The disembodied eye: Consequences of displacing perception from action. Vision Research, 2010, 50, 2618-2626.	0.7	5
48	Characterization of multi-finger twist motion toward robotic rehabilitation. , 2009, , .		4
49	Irrelevant visual faces influence haptic identification of facial expressions of emotion. Attention, Perception, and Psychophysics, 2011, 73, 521-530.	0.7	4
50	Handedness in a virtual haptic environment: Assessments from kinematic behavior and modeling. Acta Psychologica, 2015, 155, 37-42.	0.7	4
51	Spatial updating of multiple targets: Comparison of younger and older adults. Memory and Cognition, 2017, 45, 1240-1251.	0.9	4
52	Perceptual collapse: The fusion of spatially distinct tactile cues into a single percept. , 2013, , .		3
53	The representation of women in cognition. Cognition, 2015, 141, 170-171.	1.1	3
54	A Low-Parameter Rendering Algorithm for Fine Textures. IEEE Transactions on Haptics, 2022, 15, 57-61.	1.8	3

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55	What makes a population atypicalâ€“priorities or constraints?. Behavioral and Brain Sciences, 1996, 19, 78-78.	0.4	2
56	Do intention and exploration modulate the pathways to haptic object identification?. Behavioral and Brain Sciences, 2007, 30, 213-214.	0.4	2
57	Bimanual haptic teleoperation for discovering and uncovering buried objects. , 2013, , .		2
58	Coincidence avoidance principle in surface haptic interpretation. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 2605-2610.	3.3	2
59	Change Detection on Periphery and Dual-Task Performance. Proceedings of the Human Factors and Ergonomics Society, 2002, 46, 1645-1648.	0.2	1
60	One-Dimensional Haptic Rendering Using Audio Speaker with Displacement Determined by Inductance. Machines, 2016, 4, 9.	1.2	1
61	Improved typing on a flat keyboard via tactile key-identity feedback. , 2016, , .		0
62	Integrating images from a moveable tracked display of three-dimensional data. Cognitive Research: Principles and Implications, 2017, 2, 34.	1.1	0
63	Localizable Button Click Rendering via Active Lateral Force Feedback. IEEE Transactions on Haptics, 2020, 13, 552-561.	1.8	0
64	Assessment of surface rendering with 1 DoF vibration. Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization, 2021, 9, 400-406.	1.3	0
65	A new direction for applied geography. Applied Geographic Studies, 1997, 1, 151-168.	0.2	0
66	10.1121/1.4981234.1. , 2017, , .		0