

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	A Low-Parameter Rendering Algorithm for Fine Textures. IEEE Transactions on Haptics, 2022, 15, 57-61.	1.8	3
2	Impact of delayed response on wearable cognitive assistance. PLoS ONE, 2021, 16, e0248690.	1.1	8
3	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
4	Building a Navigable Fine Texture Design Space. IEEE Transactions on Haptics, 2021, 14, 897-906.	1.8	10
5	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
6	Learning efficient haptic shape exploration with a rigid tactile sensor array. PLoS ONE, 2020, 15, e0226880.	1.1	14
7	Localizable Button Click Rendering via Active Lateral Force Feedback. IEEE Transactions on Haptics, 2020, 13, 552-561.	1.8	0
8	Roughness rendering by sinusoidal friction modulation: Perceived intensity and gradient discrimination. , 2019, , .		9
9	Localized Rendering of Button Click Sensation via Active Lateral Force Feedback. , 2019, , .		9
10	Detection and Identification of Pattern Information on an Electrostatic Friction Display. IEEE Transactions on Haptics, 2019, 12, 665-670.	1.8	7
11	Single pitch perception of multi-frequency textures. , 2018, , .		13
12	A recursive Bayesian updating model of haptic stiffness perception.. Journal of Experimental Psychology: Human Perception and Performance, 2018, 44, 941-952.	0.7	8
13	The Perceptual Basis of Vast Space. Psychonomic Bulletin and Review, 2017, 24, 1870-1878.	1.4	14
14	SPATIAL UPDATING OF HAPTIC ARRAYS ACROSS THE LIFE SPAN. Experimental Aging Research, 2017, 43, 274-290.	0.6	7
15	Effects of virtual acoustics on dynamic auditory distance perception. Journal of the Acoustical Society of America, 2017, 141, EL427-EL432.	0.5	6
16	Cross-modal correspondence between vibrations and colors. , 2017, , .		11
17	Perceiving texture gradients on an electrostatic friction display. , 2017, , .		13
18	Spatial updating of multiple targets: Comparison of younger and older adults. Memory and Cognition, 2017, 45, 1240-1251.	0.9	4

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19	An empirical study of latency in an emerging class of edge computing applications for wearable cognitive assistance. , 2017, , .		135
20	Integrating images from a moveable tracked display of three-dimensional data. Cognitive Research: Principles and Implications, 2017, 2, 34.	1.1	0
21	10.1121/1.4981234.1. , 2017, , .		0
22	One-Dimensional Haptic Rendering Using Audio Speaker with Displacement Determined by Inductance. Machines, 2016, 4, 9.	1.2	1
23	Improved typing on a flat keyboard via tactile key-identity feedback. , 2016, , .		0
24	Visual, tangible, and touch-screen: Comparison of platforms for displaying simple graphics. Assistive Technology, 2016, 28, 1-6.	1.2	11
25	Intermanual apparent tactile motion on handheld tablets. , 2015, , .		13
26	Psychophysical Evaluation of Haptic Perception Under Augmentation by a Handheld Device. Human Factors, 2015, 57, 523-537.	2.1	8
27	Handedness in a virtual haptic environment: Assessments from kinematic behavior and modeling. Acta Psychologica, 2015, 155, 37-42.	0.7	4
28	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
29	The representation of women in cognition. Cognition, 2015, 141, 170-171.	1.1	3
30	A model of motor performance during surface penetration: from physics to voluntary control. Experimental Brain Research, 2013, 230, 251-260.	0.7	6
31	Bimanual haptic teleoperation for discovering and uncovering buried objects. , 2013, , .		2
32	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
33	Perceptual collapse: The fusion of spatially distinct tactile cues into a single percept. , 2013, , .		3
34	Please Touch: Object Properties that Invite Touch. IEEE Transactions on Haptics, 2012, 5, 139-147.	1.8	53
35	Roughness Perception in Virtual Textures. IEEE Transactions on Haptics, 2011, 4, 122-133.	1.8	23
36	Irrelevant visual faces influence haptic identification of facial expressions of emotion. Attention, Perception, and Psychophysics, 2011, 73, 521-530.	0.7	4

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37	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
38	The disembodied eye: Consequences of displacing perception from action. <i>Vision Research</i> , 2010, 50, 2618-2626.	0.7	5
39	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
40	Characterization of multi-finger twist motion toward robotic rehabilitation. , 2009, , .		4
41	Good vibrations: Asymmetric vibrations for directional haptic cues. , 2009, , .		25
42	An n-back task using vibrotactile stimulation with comparison to an auditory analogue. <i>Behavior Research Methods</i> , 2008, 40, 367-372.	2.3	7
43	Visual-Haptic Perception of Compliance: Fusion of Visual and Haptic Information. , 2008, , .		7
44	The Geometric Model for Perceived Roughness Applies to Virtual Textures. , 2008, , .		7
45	Spatial Representations From Perception and Cognitive Mediation. <i>Current Directions in Psychological Science</i> , 2008, 17, 359-364.	2.8	16
46	Do intention and exploration modulate the pathways to haptic object identification?. <i>Behavioral and Brain Sciences</i> , 2007, 30, 213-214.	0.4	2
47	Tilt Perception by Constant Tactile and Constant Proprioceptive Feedback through a Human System Interface. , 2007, , .		5
48	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
49	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
50	Feeling textures through a probe: Effects of probe and surface geometry and exploratory factors. <i>Perception & Psychophysics</i> , 2003, 65, 613-631.	2.3	138
51	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
52	Representing spatial location and layout from sparse kinesthetic contacts.. <i>Journal of Experimental Psychology: Human Perception and Performance</i> , 2003, 29, 310-325.	0.7	23
53	Watching a Cursor Distorts Haptically Guided Reproduction of Mouse Movement.. <i>Journal of Experimental Psychology: Applied</i> , 2003, 9, 228-235.	0.9	16
54	Change Detection on Periphery and Dual-Task Performance. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 2002, 46, 1645-1648.	0.2	1

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55	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
56	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
57	Tactile roughness perception with a rigid link interposed between skin and surface. <i>Perception & Psychophysics</i> , 1999, 61, 591-607.	2.3	179
58	Path completion after haptic exploration without vision: Implications for haptic spatial representations. <i>Perception & Psychophysics</i> , 1999, 61, 220-235.	2.3	68
59	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
60	Navigation System for the Blind: Auditory Display Modes and Guidance. <i>Presence: Teleoperators and Virtual Environments</i> , 1998, 7, 193-203.	0.3	258
61	Spatial Updating of Self-Position and Orientation During Real, Imagined, and Virtual Locomotion. <i>Psychological Science</i> , 1998, 9, 293-298.	1.8	402
62	A new direction for applied geography. <i>Applied Geographic Studies</i> , 1997, 1, 151-168.	0.2	0
63	What makes a population atypical—priorities or constraints?. <i>Behavioral and Brain Sciences</i> , 1996, 19, 78-78.	0.4	2
64	Effects of Object Texture on Precontact Movement Time in Human Prehension. <i>Journal of Motor Behavior</i> , 1994, 26, 325-332.	0.5	116
65	On the relation between motor imagery and visual imagery. <i>Behavioral and Brain Sciences</i> , 1994, 17, 212-213.	0.4	22
66	Cognitive representations of functional interactions with objects. <i>Memory and Cognition</i> , 1993, 21, 294-303.	0.9	71