Angelika Peer

List of Publications by Year
in descending order

109 papers	2,724 citations	394421 19 h-index	254184 43 g-index
116 all docs	116 docs citations	116 times ranked	2573 citing authors

#	Article	IF	Citations
1	Activity, Plan, and Goal Recognition: A Review. Frontiers in Robotics and AI, 2021, 8, 643010.	3.2	17
2	Evaluating the sit‐to‐stand transfer assistance from a smart walker in older adults with motor impairments. Geriatrics and Gerontology International, 2020, 20, 312-316.	1.5	10
3	A simulation environment for studying transcutaneous electrotactile stimulation. PLoS ONE, 2019, 14, e0212479.	2.5	4
4	Modeling and Two-Input Sliding Mode Control of Rotary Traveling Wave Ultrasonic Motors. IEEE Transactions on Industrial Electronics, 2018, 65, 7149-7159.	7.9	37
5	An MR-Compatible Haptic Interface With Seven Degrees of Freedom. IEEE/ASME Transactions on Mechatronics, 2018, 23, 624-635.	5.8	5
6	Parameter-Space Stability Analysis of LTI Time-Delay Systems With Parametric Uncertainties. IEEE Transactions on Automatic Control, 2018, 63, 3927-3934.	5.7	4
7	Dynamic contextualization and comparison as the basis of biologically inspired action understanding. Paladyn, 2018, 9, 19-59.	2.7	3
8	A cognitive architecture for modeling emotion dynamics: Intensity estimation from physiological signals. Cognitive Systems Research, 2018, 49, 128-141.	2.7	6
9	A systematic review of study results reported for the evaluation of robotic rollators from the perspective of users. Disability and Rehabilitation: Assistive Technology, 2018, 13, 31-39.	2.2	8
10	Enhancing the Command-Following Bandwidth for Transparent Bilateral Teleoperation. , 2018, , .		3
11	Human sit-to-stand transfer modeling towards intuitive and biologically-inspired robot assistance. Autonomous Robots, 2017, 41, 575-592.	4.8	48
12	Decision-Making Model for Adaptive Impedance Control of Teleoperation Systems. IEEE Transactions on Haptics, 2017, 10, 5-16.	2.7	17
13	Local and Remote Cooperation With Virtual and Robotic Agents: A P300 BCI Study in Healthy and People Living With Spinal Cord Injury. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2017, 25, 1622-1632.	4.9	40
14	Goal-recognition-based adaptive brain-computer interface for navigating immersive robotic systems. Journal of Neural Engineering, 2017, 14, 036024.	3.5	5
15	Design and Evaluation of a Haptic Interface With Octopod Kinematics. IEEE/ASME Transactions on Mechatronics, 2017, 22, 2091-2101.	5.8	5
16	Invariance and variability in interaction error-related potentials and their consequences for classification. Journal of Neural Engineering, 2017, 14, 066015.	3.5	13
17	Evaluation Studies of Robotic Rollators by the User Perspective: A Systematic Review. Gerontology, 2016, 62, 644-653.	2.8	8
18	Port-based modeling of human-robot collaboration towards safety-enhancing energy shaping control. , 2016, , .		9

#	ARTICLE	IF	CITATIONS
19	A new interaction force decomposition maximizing compensating forces under physical work constraints. , 2016, , .		3
20	Advancing the detection of steady-state visual evoked potentials in brain–computer interfaces. Journal of Neural Engineering, 2016, 13, 036005.	3.5	37
21	An Integrated Decision Making Approach for Adaptive Shared Control of Mobility Assistance Robots. International Journal of Social Robotics, 2016, 8, 631-648.	4.6	33
22	Human-Inspired Neurorobotic System for Classifying Surface Textures by Touch. IEEE Robotics and Automation Letters, 2016, 1, 516-523.	5.1	53
23	The Formable Object: A 24-Degree-of-Freedom Shape-Rendering Interface. IEEE/ASME Transactions on Mechatronics, 2015, 20, 1360-1371.	5.8	12
24	Second-order model for rotary traveling wave ultrasonic motors. , 2015, , .		4
25	Control of mobility assistive robot for human fall prevention. , 2015, , .		9
26	Haptic Rendering of Compliant Shapes. IEEE Transactions on Robotics, 2015, 31, 893-905.	10.3	0
27	Deciding on optimal assistance policies in haptic shared control tasks. , 2014, , .		5
28	Safety constrained motion control of mobility assistive robots. , 2014, , .		5
29	Feature Extraction and Selection for Emotion Recognition from EEG. IEEE Transactions on Affective Computing, 2014, 5, 327-339.	8.3	697
30	Design of a new MR-compatible haptic interface with six actuated degrees of freedom. , 2014, , .		8
31	Human sit-to-stand transfer modeling for optimal control of assistive robots. , 2014, , .		5
32	A key region in the human parietal cortex for processing proprioceptive hand feedback during reaching movements. NeuroImage, 2014, 84, 615-625.	4.2	47
33	Advances in Intelligent Mobility Assistance Robot Integrating Multimodal Sensory Processing. Lecture Notes in Computer Science, 2014, , 692-703.	1.3	15
34	Interaction-Based Dynamic Measurement of Haptic Characteristics of Control Elements. Lecture Notes in Computer Science, 2014, , 177-184.	1.3	34
35	Modeling the Weber Fraction of Vibrotactile Amplitudes Using Gain Control Through Global Feedforward Inhibition. Lecture Notes in Computer Science, 2014, , 394-402.	1.3	0
36	The Role of Haptic Feedback for the Integration of Intentions in Shared Task Execution. IEEE Transactions on Haptics, 2013, 6, 94-105.	2.7	58

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37	Design and Evaluation of a Haptic Computer-Assistant for Telemanipulation Tasks. IEEE Transactions on Human-Machine Systems, 2013, 43, 385-397.	3.5	17
38	Formable object — A new haptic interface for shape rendering. , 2013, , .		10
39	Effect-size-based electrode and feature selection for emotion recognition from EEG. , 2013, , .		13
40	Development of a new 6 DOF parallel haptic interface for the rendering of elements and interior equipment in a car. , 2013, , .		2
41	Haptic Perception of Material Properties and Implications for Applications. Proceedings of the IEEE, 2013, PP, 1-12.	21.3	19
42	Supporting interoperability and presence awareness in collaborative mixed reality environments. , 2013, , .		11
43	A Comparison of Evaluation Measures for Emotion Recognition in Dimensional Space. , 2013, , .		3
44	A BCI using VEP for continuous control of a mobile robot. , 2013, 2013, 5254-7.		27
45	Inverse kinematics for shape rendering interfaces. , 2013, , .		2
46	Exploring the Design Space of Haptic Assistants: The Assistance Policy Module. IEEE Transactions on Haptics, 2013, 6, 440-452.	2.7	22
47	Towards robotic re-embodiment using a Brain-and-Body-Computer Interface. , 2012, , .		5
48	Haptic Human-Robot Interaction. IEEE Transactions on Haptics, 2012, 5, 193-195.	2.7	3
49	Parameter-space transparency analysis of teleoperation systems. , 2012, , .		3
50	Beaming: An Asymmetric Telepresence System. IEEE Computer Graphics and Applications, 2012, 32, 10-17.	1.2	47
51	Social Haptic Interaction with Virtual Characters. Springer Series on Touch and Haptic Systems, 2012, , 189-214.	0.3	2
52	Masking Effects for Damping JND. Lecture Notes in Computer Science, 2012, , 145-150.	1.3	17
53	Psychological Experiments in Haptic Collaboration Research. Springer Series on Touch and Haptic Systems, 2012, , 65-90.	0.3	0
54	Tutorial: Control issues in haptic teleoperation. , 2011, , .		0

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55	Workshop on human-X haptic collaboration. , 2011, , .		0
56	Enhancing task classification in human-machine collaborative teleoperation systems by real-time evaluation of an agreement criterion. , 2011, , .		9
57	Towards real-time haptic assistance adaptation optimizing task performance and human effort. , 2011, , .		21
58	Comparison of people's responses to real and virtual handshakes within a virtual environment. Brain Research Bulletin, 2011, 85, 276-282.	3.0	35
59	Handshake: Realistic Human-Robot Interaction in Haptic Enhanced Virtual Reality. Presence: Teleoperators and Virtual Environments, 2011, 20, 371-392.	0.6	31
60	Development and Evaluation of a Device for the Haptic Rendering of Rotatory Car Doors. IEEE Transactions on Industrial Electronics, 2011, 58, 3133-3140.	7.9	18
61	Haptic Human–Robot Collaboration: Comparison of Robot Partner Implementations in Terms of Human-Likeness and Task Performance. Presence: Teleoperators and Virtual Environments, 2011, 20, 173-189.	0.6	12
62	Imitation learning of human grasping skills from motion and force data. , 2011, , .		29
63	Contributions of the PPC to Online Control of Visually Guided Reaching Movements Assessed with fMRI-Guided TMS. Cerebral Cortex, 2011, 21, 1602-1612.	2.9	51
64	Image-based magnetic control of paramagnetic microparticles in water. , 2011, , .		3
65	A survey of environment-, operator-, and task-adapted controllers for teleoperation systems. Mechatronics, 2010, 20, 787-801.	3.3	173
66	Synthesis of an interactive haptic dancing partner. , 2010, , .		9
67	Online intention recognition for computer-assisted teleoperation. , 2010, , .		18
68	High-fidelity telepresence and teleaction. , 2010, , .		0
69	Development of a Multi-modal Multi-user Telepresence and Teleaction System. International Journal of Robotics Research, 2010, 29, 1298-1316.	8.5	27
70	Incorporating human haptic interaction models into teleoperation systems. , 2010, , .		8
71	Plugfest 2009: Global interoperability in Telerobotics and telemedicine. , 2010, 2010, 1733-1738.		26
72	Model-Mediated Teleoperation for multi-operator multi-robot systems. , 2010, , .		20

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73	Influence of Varied Human Movement Control on Task Performance and Feeling of Telepresence. Presence: Teleoperators and Virtual Environments, 2010, 19, 463-481.	0.6	16
74	Shared decision making in a collaborative task with reciprocal haptic feedback - an efficiency-analysis. , 2010, , .		20
75	Improvement of model-mediated teleoperation using a new hybrid environment estimation technique. , 2010, , .		29
76	Development of a 3ÂDoF MR-Compatible Haptic Interface for Pointing and Reaching Movements. Lecture Notes in Computer Science, 2010, , 211-218.	1.3	11
77	Optimization Criteria for Human Trajectory Formation in Dynamic Virtual Environments. Lecture Notes in Computer Science, 2010, , 257-262.	1.3	8
78	A Coordinating Controller for Improved Task Performance in Multi-user Teleoperation. Lecture Notes in Computer Science, 2010, , 155-160.	1.3	5
79	Online Intention Recognition in Computer-Assisted Teleoperation Systems. Lecture Notes in Computer Science, 2010, , 233-239.	1.3	5
80	Evaluation of a Coordinating Controller for Improved Task Performance in Multi-user Teleoperation. Lecture Notes in Computer Science, 2010, , 240-247.	1.3	5
81	Intercontinental, multimodal, wide-range tele-cooperation using a humanoid robot. , 2009, , .		12
82	Seeing the hand while reaching speeds up onâ€ine responses to a sudden change in target position. Journal of Physiology, 2009, 587, 4605-4616.	2.9	44
83	An HMM approach to realistic haptic human-robot interaction. , 2009, , .		98
84	Fast online impedance estimation for robot control. , 2009, , .		18
85	Role determination in human-human interaction. , 2009, , .		42
86	Predictability of a Human Partner in a Pursuit Tracking Task without Haptic Feedback. , 2009, , .		3
87	Experimental analysis of dominance in haptic collaboration. , 2009, , .		44
88	Performance related energy exchange in haptic human-human interaction in a shared virtual object manipulation task. , 2009, , .		41
89	Efficiency analysis in a collaborative task with reciprocal haptic feedback. , 2009, , .		20
90	Control-theoretic model of haptic human-human interaction in a pursuit tracking task. , 2009, , .		11

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91	Virtual Partner for a Haptic Interaction Task. Cognitive Systems Monographs, 2009, , 183-191.	0.1	10
92	The field of telerobotics [From the Guest Editors]. IEEE Robotics and Automation Magazine, 2008, 15, 9-9.	2.0	6
93	Multi-fingered telemanipulation - mapping of a human hand to a three finger gripper. , 2008, , .		43
94	Robust stability analysis of a bilateral teleoperation system using the parameter space approach. , 2008, , .		23
95	Techniques for environment parameter estimation during telemanipulation. , 2008, , .		21
96	A New Admittance-Type Haptic Interface for Bimanual Manipulations. IEEE/ASME Transactions on Mechatronics, 2008, 13, 416-428.	5.8	59
97	Multi-modal multi-user telepresence and teleaction system. , 2008, , .		3
98	Robust stability analysis of bilateral teleoperation systems using admittance-type devices. , 2008, , .		8
99	Redundancy resolution of a 7 DOF haptic interface considering collision and singularity avoidance. , 2008, , .		7
100	Intercontinental cooperative telemanipulation between Germany and Japan. , 2008, , .		5
101	Intercontinental multimodal tele-cooperation using a humanoid robot. , 2008, , .		13
102	Effects of Varied Human Movement Control on Task Performance and Feeling of Telepresence. Lecture Notes in Computer Science, 2008, , 755-765.	1.3	4
103	Control and performance evaluation of a new redundant haptic interface. , 2007, , .		4
104	Towards a mobile haptic interface for bimanual manipulations. , 2007, , .		25
105	The Human Role in Telerobotics. , 2007, , 11-24.		12
106	Advanced Telerobotics: Dual-Handed and Mobile Remote Manipulation. , 2007, , 471-497.		5
107	Development of a high-performance haptic telemanipulation system with dissimilar kinematics. Advanced Robotics, 2006, 20, 1303-1320.	1.8	13
108	Tele-assembly in Wide Remote Environments. , 2006, , .		13

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109	Haptic telemanipulation with dissimilar kinematics. , 2005, , .		13