

Kyung-Soo Kim

List of Publications by Citations

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111
papers

1,426
citations

20
h-index

33
g-index

137
ext. papers

1,821
ext. citations

3.4
avg, IF

4.96
L-index

#	Paper	IF	Citations
111	Disturbance Observer for Estimating Higher Order Disturbances in Time Series Expansion. <i>IEEE Transactions on Automatic Control</i> , 2010 , 55, 1905-1911	5.9	196
110	Designing robust sliding hyperplanes for parametric uncertain systems: a Riccati approach. <i>Automatica</i> , 2000 , 36, 1041-1048	5.7	100
109	Sliding Mode Control Using Novel Sliding Surfaces. <i>Lecture Notes in Control and Information Sciences</i> , 2009 ,	0.5	88
108	Reduced order disturbance observer for discrete-time linear systems. <i>Automatica</i> , 2013 , 49, 968-975	5.7	79
107	A Robot Finger Design Using a Dual-Mode Twisting Mechanism to Achieve High-Speed Motion and Large Grasping Force. <i>IEEE Transactions on Robotics</i> , 2012 , 28, 1398-1405	6.5	48
106	Designing Anthropomorphic Robot Hand With Active Dual-Mode Twisted String Actuation Mechanism and Tiny Tension Sensors. <i>IEEE Robotics and Automation Letters</i> , 2017 , 2, 1571-1578	4.2	43
105	Morphology-based guidance line extraction for an autonomous weeding robot in paddy fields. <i>Computers and Electronics in Agriculture</i> , 2015 , 113, 266-274	6.5	42
104	A Closed-Form Solution to Asymmetric Motion Profile Allowing Acceleration Manipulation. <i>IEEE Transactions on Industrial Electronics</i> , 2010 , 57, 2499-2506	8.9	38
103	Degradation of optical properties of a film-type single-wall carbon nanotubes saturable absorber (SWNT-SA) with an Er-doped all-fiber laser. <i>Optics Express</i> , 2012 , 20, 12966-74	3.3	34
102	Estimating Clothing Thermal Insulation Using an Infrared Camera. <i>Sensors</i> , 2016 , 16,	3.8	28
101	Design and test of an adaptive vibration absorber based on magnetorheological elastomers and a hybrid electromagnet. <i>Journal of Intelligent Material Systems and Structures</i> , 2013 , 24, 803-812	2.3	27
100	A novel smooth impact drive mechanism actuation method with dual-slider for a compact zoom lens system. <i>Review of Scientific Instruments</i> , 2011 , 82, 085105	1.7	27
99	Ultrashort stretched-pulse L-band laser using carbon-nanotube saturable absorber. <i>Optics Express</i> , 2015 , 23, 7779-85	3.3	25
98	Compound Explosives Detection and Component Analysis via Terahertz Time-Domain Spectroscopy. <i>Journal of the Optical Society of Korea</i> , 2013 , 17, 454-460		25
97	Controller Design of an Electric Power Steering System. <i>IEEE Transactions on Control Systems Technology</i> , 2018 , 26, 748-755	4.8	24
96	Note: A compact three-axis optical force/torque sensor using photo-interrupters. <i>Review of Scientific Instruments</i> , 2013 , 84, 126109	1.7	23
95	Note: real time control of a tunable vibration absorber based on magnetorheological elastomer for suppressing tonal vibrations. <i>Review of Scientific Instruments</i> , 2012 , 83, 046108	1.7	22

94	A practically efficient method for motion control based on asymmetric velocity profile. <i>International Journal of Machine Tools and Manufacture</i> , 2009 , 49, 678-682	9.4	21
93	Sliding Mode Design via Quadratic Performance Optimization with Pole-Clustering Constraint. <i>SIAM Journal on Control and Optimization</i> , 2004 , 43, 670-684	1.9	21
92	An impulse-time perturbation approach for enhancing the robustness of extra-insensitive input shapers. <i>Automatica</i> , 2013 , 49, 3425-3431	5.7	20
91	A 2-Speed Small Transmission Mechanism Based on Twisted String Actuation and a Dog Clutch. <i>IEEE Robotics and Automation Letters</i> , 2018 , 3, 1338-1345	4.2	19
90	Effective image enhancement techniques for fog-affected indoor and outdoor images. <i>IET Image Processing</i> , 2018 , 12, 465-471	1.7	19
89	Robust Zero Placement for Motion Control of Lightly Damped Systems. <i>IEEE Transactions on Industrial Electronics</i> , 2013 , 60, 3857-3864	8.9	19
88	Conceptual and basic designs of the Mobile Harbor crane based on topology and shape optimization. <i>Structural and Multidisciplinary Optimization</i> , 2014 , 50, 505-515	3.6	17
87	A Portable and Remote 6-DOF Pose Sensor System With a Long Measurement Range Based on 1-D Laser Sensors. <i>IEEE Transactions on Industrial Electronics</i> , 2015 , 62, 5722-5729	8.9	16
86	Development of anthropomorphic robot hand with dual-mode twisting actuation and electromagnetic joint locking mechanism 2013 ,		15
85	Distributed-Actuation Mechanism for a Finger-Type Manipulator: Theory and Experiments. <i>IEEE Transactions on Robotics</i> , 2010 , 26, 569-575	6.5	15
84	Developing Accurate Long-Distance 6-DOF Motion Detection With One-Dimensional Laser Sensors: Three-Beam Detection System. <i>IEEE Transactions on Industrial Electronics</i> , 2012 , 1-1	8.9	14
83	Note: Vibration suppression using tunable vibration absorber based on stiffness variable magneto-rheological gel. <i>Review of Scientific Instruments</i> , 2015 , 86, 106106	1.7	13
82	Design of a cat-inspired robotic leg for fast running. <i>Advanced Robotics</i> , 2014 , 28, 1587-1598	1.7	13
81	Design of a miniature force sensor based on photointerrupter for robotic hand. <i>Sensors and Actuators A: Physical</i> , 2018 , 269, 444-453	3.9	13
80	Using the Stator Current Ripple Model for Real-Time Estimation of Full Parameters of a Permanent Magnet Synchronous Motor. <i>IEEE Access</i> , 2019 , 7, 33369-33379	3.5	11
79	Design and Analysis of the Active Dual-Mode Twisting Actuation Mechanism. <i>IEEE/ASME Transactions on Mechatronics</i> , 2017 , 22, 2790-2801	5.5	11
78	. <i>IEEE Transactions on Human-Machine Systems</i> , 2017 , 47, 1089-1099	4.1	11
77	2014 ,		11

76	Structural Optimization of a Novel 6-DOF Pose Sensor System for Enhancing Noise Robustness at a Long Distance. <i>IEEE Transactions on Industrial Electronics</i> , 2014 , 61, 5622-5631	8.9	10
75	A Novel Passive Quasi-Zero Stiffness Isolator for Ultra-Precision Measurement Systems. <i>International Journal of Precision Engineering and Manufacturing</i> , 2019 , 20, 1573-1580	1.7	9
74	Bias Compensation for Fast Servo Track Writer Seek Control. <i>IEEE Transactions on Magnetics</i> , 2011 , 47, 1937-1943	2	9
73	Vibration isolation strategies using magneto-rheological elastomer for a miniature cryogenic cooler in space application 2010 ,		9
72	Using lateral vibration for thermosonic flip-chip interconnection with anisotropic conductive film. <i>Journal of Micromechanics and Microengineering</i> , 2010 , 20, 105015	2	9
71	Nondestructive evaluation of multilayered paint films in ambient atmosphere using terahertz reflection spectroscopy. <i>NDT and E International</i> , 2016 , 80, 71-76	4.1	9
70	Nondestructive Material Characterization in the Terahertz Band by Selective Extraction of Sample-Induced Echo Signals. <i>Journal of Nondestructive Evaluation</i> , 2015 , 34, 1	2.1	8
69	Using scales in the multiobjective approach. <i>IEEE Transactions on Automatic Control</i> , 2000 , 45, 973-977	5.9	8
68	. <i>IEEE/ASME Transactions on Mechatronics</i> , 2017 , 22, 1992-2002	5.5	7
67	A Nonlinear-Model-Based Observer for a State-of-Charge Estimation of a Lithium-Ion Battery in Electric Vehicles. <i>Energies</i> , 2019 , 12, 3383	3.1	7
66	A Robust Current Controller for Uncertain Permanent Magnet Synchronous Motors with a Performance Recovery Property for Electric Power Steering Applications. <i>Energies</i> , 2018 , 11, 1224	3.1	7
65	Design improvement of the three-beam detector towards a precise long-range 6-degree of freedom motion sensor system. <i>Review of Scientific Instruments</i> , 2014 , 85, 015004	1.7	7
64	A Survey of Control Issues in Optical Data Storage Systems. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2011 , 44, 854-868		7
63	Development of a robotic finger with an active dual-mode twisting actuation and a miniature tendon tension sensor 2016 ,		7
62	. <i>IEEE/ASME Transactions on Mechatronics</i> , 2017 , 22, 1983-1991	5.5	6
61	The Role of Relative Spinal Motion during Feline Galloping for Speed Performance. <i>Journal of Bionic Engineering</i> , 2014 , 11, 517-528	2.7	6
60	A Robust State of Charge Estimation Approach Based on Nonlinear Battery Cell Model for Lithium-Ion Batteries in Electric Vehicles. <i>IEEE Transactions on Vehicular Technology</i> , 2021 , 70, 5638-5647	6.8	6
59	Two-channel electrotactile stimulation for sensory feedback of fingers of prosthesis 2016 ,		6

58	Design and control of antagonistic robot joint with Twisted String Actuators 2016 ,		5
57	Weighted virtual tangential vector algorithm for local path planning of mobile robots. <i>Electronics Letters</i> , 2013 , 49, 255-256	1.1	5
56	Design and control of robot manipulator with a distributed actuation mechanism. <i>Mechatronics</i> , 2014 , 24, 1223-1230	3	5
55	Developing a robust sensing system for remote relative 6-DOF motion using 1-D laser sensors 2012 ,		5
54	SoftGait: compliant walking assistance via pneumatically actuated robot legs. <i>Electronics Letters</i> , 2013 , 49, 1208-1209	1.1	5
53	Developing a real time controlled adaptive MRE-based tunable vibration absorber system for a linear cryogenic cooler 2011 ,		5
52	Elastic region of an ACF joint for thermosonic flip-chip bonding. <i>Journal of Micromechanics and Microengineering</i> , 2011 , 21, 095015	2	5
51	Eccentricity Compensation in Optical Storage Systems: Analysis and Experiments. <i>Japanese Journal of Applied Physics</i> , 2002 , 41, 6302-6303	1.4	5
50	An Impulse-time Perturbation Approach for a Symmetric Extra-insensitive Input Shaper. <i>International Journal of Control, Automation and Systems</i> , 2018 , 16, 1239-1246	2.9	5
49	Bioinspired Image Stabilization Control Using the Adaptive Gain Adjustment Scheme of Vestibulo-Ocular Reflex. <i>IEEE/ASME Transactions on Mechatronics</i> , 2016 , 21, 922-930	5.5	4
48	Using common spatial pattern algorithm for unsupervised real-time estimation of fingertip forces from sEMG signals 2015 ,		4
47	Controllable pneumatic generator based on the catalytic decomposition of hydrogen peroxide. <i>Review of Scientific Instruments</i> , 2014 , 85, 075109	1.7	4
46	Design of Prosthetic Robot Hand with High Performances Based on Novel Actuation Principles. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2013 , 46, 313-318		4
45	Formulating a Laplace domain approach for tuning motion profiles 2011 ,		4
44	Practical Approach for Controlling Optical Image Stabilization System. <i>International Journal of Control, Automation and Systems</i> , 2020 , 18, 824-833	2.9	4
43	Estimating Simultaneous and Proportional Finger Force Intention Based on sEMG Using a Constrained Autoencoder. <i>IEEE Access</i> , 2020 , 8, 138264-138276	3.5	4
42	Real-Time Optimal Torque Control of Interior Permanent Magnet Synchronous Motors Based on a Numerical Optimization Technique. <i>IEEE Transactions on Control Systems Technology</i> , 2021 , 29, 1815-1822	4.8	4
41	Design of modular gripper for explosive ordinance disposal robot manipulator based on modified dual-mode twisting actuation. <i>International Journal of Control, Automation and Systems</i> , 2016 , 14, 1322-1330	2.9	3

40	Design of Robot Hand With Pneumatic Dual-Mode Actuation Mechanism Powered by Chemical Gas Generation Method. <i>IEEE Robotics and Automation Letters</i> , 2018 , 3, 4193-4200	4.2	3
39	Auto-positioning of sliding planes based on virtual force. <i>International Journal of Control, Automation and Systems</i> , 2013 , 11, 798-804	2.9	3
38	Sliding Mechanism of Lateral Thermosonic Process With Anisotropic Conductive Film for High Productivity and High Reliability. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , 2013 , 3, 205-212	1.7	3
37	Investigation of fiber Bragg grating as a spectral notch shaper for single-pulse coherent anti-Stokes Raman spectroscopy. <i>Optics Communications</i> , 2017 , 383, 107-112	2	3
36	Note: Reliable and non-contact 6D motion tracking system based on 2D laser scanners for cargo transportation. <i>Review of Scientific Instruments</i> , 2014 , 85, 106102	1.7	3
35	Advanced sensing system of crane spreader motion(for Mobile Harbor) 2012 ,		3
34	Optimization and reliability evaluation of COG bonding process. <i>Journal of Mechanical Science and Technology</i> , 2016 , 30, 1305-1313	1.6	2
33	Design of biped robot inspired by cats for fast running. <i>Electronics Letters</i> , 2014 , 50, 730-731	1.1	2
32	An advanced cargo handling system operating at sea. <i>International Journal of Control, Automation and Systems</i> , 2014 , 12, 852-860	2.9	2
31	Verification of the peak time approach for detection of step initiation using the UTRCEXO. <i>International Journal of Control, Automation and Systems</i> , 2014 , 12, 1070-1076	2.9	2
30	A novel actuation for a robotic fish using a flexible joint. <i>International Journal of Control, Automation and Systems</i> , 2014 , 12, 878-885	2.9	2
29	A feasibility study of designing a tunable vibration absorber using stiffness variable magnetorheological gel 2015 ,		2
28	Supercontinuum notch shaping via fiber Bragg grating for the excitation source in coherent anti-Stokes Raman spectroscopy 2015 ,		2
27	A novel disturbance observer based robust current-control for a PMSM drive system 2015 ,		2
26	Portable serial robot manipulator with distributed actuation mechanism 2014 ,		2
25	Remote position detection of steel coils using 2D laser scanners: Two-line-tracker 2014 ,		2
24	Tuning the S-curve motion profile in short distance case 2013 ,		2
23	BLDC motor driven robot finger design using the sliding actuation principle 2010 ,		2

22	Disturbance attenuation via strictly positive real compensators. <i>Journal of the Franklin Institute</i> , 2003 , 340, 515-521	4	2
21	Applications: Twisted String Actuation-based Compact Automatic Transmission 2021 ,		2
20	Note: Position/torque control of antagonistic robot joint with high-compliant twisted string actuators (TSAs). <i>Review of Scientific Instruments</i> , 2016 , 87, 126107	1.7	2
19	Using Intaglio-Shaped Bumps for Increasing the Conductive Particle Density in Lateral Thermosonic Process With Anisotropic Conductive Film. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , 2014 , 4, 371-376	1.7	1
18	Generalized design of disturbance observer for non-minimum phase system using an H-infinity approach 2013 ,		1
17	Finger module design based on dual-mode twisting actuation for explosive ordnance disposal gripper 2013 ,		1
16	Development of a vehicle body velocity sensor using Modulated Motion Blur 2017 ,		1
15	Design, analysis and simulation of biped running robot 2014 ,		1
14	Structure optimization of 1-D laser sensors assembly for robust 6-DOF measurement 2012 ,		1
13	Ground following locomotion of a robot inspired by pill bugs 2011 ,		1
12	A Lyapunov Approach for Discrete-time Sliding Hyperplane Design and Robust Sliding Mode Control using MROF. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2008 , 41, 1129-1134		1
11	Precise Control Law Design of Robot Finger Embedding Distributed Actuation Mechanism. <i>Journal of Institute of Control, Robotics and Systems</i> , 2010 , 16, 846-851	1	1
10	Double-looped Mach-Zehnder interferometer for achieving multiple ring-down interferograms. <i>Optics Express</i> , 2014 , 22, 28353-62	3.3	0
9	Precedence walking assistance mechanism for exoskeletons with improved detection of step initiation based on gait analysis. <i>Journal of Mechanical Science and Technology</i> , 2014 , 28, 4353-4359	1.6	0
8	The MSC Prosthetic Hand: Rapid, Powerful, and Intuitive. <i>IEEE Robotics and Automation Letters</i> , 2022 , 7, 3170-3177	4.2	0
7	Bipedal Walking and Impact Reduction Algorithm for a Robot with Pneumatically Driven Knees. <i>International Journal of Control, Automation and Systems</i> , 2021 , 19, 3937-3946	2.9	0
6	A disturbance observer based approach to current control of PMSM drives for torque ripple reduction. <i>IFAC-PapersOnLine</i> , 2019 , 52, 206-209	0.7	
5	Note: Hybrid active/passive force feedback actuator using hydrostatic transmission. <i>Review of Scientific Instruments</i> , 2017 , 88, 126103	1.7	

4	Highly Damage-Resistant Thin Film Saturable Absorber Based on Mechanically Functionalized SWCNTs.. <i>Nanoscale Research Letters</i> , 2022 , 17, 11	5
3	Generalized Control Framework for Exoskeleton Robots by Interaction Force Feedback Control. <i>International Journal of Control, Automation and Systems</i> , 2021 , 19, 3419	2.9
2	Modulated Motion Blur-Based Vehicle Body Velocity and Pose Estimation Using an Optical Image Modulator. <i>IEEE Transactions on Vehicular Technology</i> , 2021 , 70, 8744-8754	6.8
1	Development of quadruped robot for inspection of underground pipelines in nuclear power plants. <i>Electronics Letters</i> , 2022 , 58, 234-236	1.1