

# Bong Keun Kim

## List of Publications by Year in descending order

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Version: 2024-02-01

51  
papers

678  
citations

1039880

9  
h-index

839398

18  
g-index

51  
all docs

51  
docs citations

51  
times ranked

443  
citing authors

#	ARTICLE	IF	CITATIONS
1	Advanced disturbance observer design for mechanical positioning systems. IEEE Transactions on Industrial Electronics, 2003, 50, 1207-1216.	5.2	120
2	A laser-technology-based lifting-path tracking system for a robotic tower crane. Automation in Construction, 2009, 18, 865-874.	4.8	84
3	Analysis and Design of Robust Motion Controllers in the Unified Framework. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2002, 124, 313-321.	0.9	58
4	Design and Performance Tuning of Sliding-Mode Controller for High-Speed and High-Accuracy Positioning Systems in Disturbance Observer Framework. IEEE Transactions on Industrial Electronics, 2009, 56, 3798-3809.	5.2	57
5	Performance tuning of robust motion controllers for high-accuracy positioning systems. IEEE/ASME Transactions on Mechatronics, 2002, 7, 500-514.	3.7	30
6	Design of Robust High-Speed Motion Controller for a Plant With Actuator Saturation. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2000, 122, 535-541.	0.9	28
7	Robust controller design for PTP motion of vertical XY positioning systems with a flexible beam. IEEE/ASME Transactions on Mechatronics, 2003, 8, 99-110.	3.7	28
8	Robust time optimal controller design for hard disk drives. IEEE Transactions on Magnetics, 1999, 35, 3598-3600.	1.2	26
9	Ubiquitous Localization and Mapping for Robots with Ambient Intelligence. , 2006, , .		25
10	Robust internal loop compensator design for motion control of precision linear motor. , 0, , .		19
11	Web Services Based Robot Control Platform for Ubiquitous Functions. , 0, , .		17
12	Learning affordance for semantic robots using ontology approach. , 2008, , .		14
13	Advanced design of disturbance observer for high performance motion control systems. , 2002, , .		13
14	Security Door System Using Human Tracking Method with Laser Range Finders. , 2007, , .		13
15	Unified analysis and design of robust disturbance attenuation algorithms using inherent structural equivalence. , 2001, , .		12
16	Robotic wheelchair using a high accuracy visual marker LentiBar and its application to door crossing navigation. , 2015, , .		12
17	Distributed Control of Robot Functions using RT Middleware. , 2006, , .		11
18	Performance predictable design of robust motion controllers for high-precision servo systems. , 2001, , .		10

#	ARTICLE	IF	CITATIONS
19	Visual Mark for Robot Manipulation and Its RT-Middleware Component. <i>Advanced Robotics</i> , 2008, 22, 633-655.	1.1	10
20	Performance tuning of sliding mode controllers: structural analysis approach. , 2001, , .		9
21	Design and Control of Librarian Robot System in Information Structured Environments. <i>Journal of Robotics and Mechatronics</i> , 2009, 21, 507-514.	0.5	8
22	Design of Ubiquitous Space for the Robotic Library System and Its Application. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2008, 41, 8221-8225.	0.4	7
23	Robust synchronizing motion control of twin-servo systems based on network modeling. , 0, , .		6
24	Vision-Based Safety-Related Sensors in Low Visibility by Fog. <i>Sensors</i> , 2020, 20, 2812.	2.1	6
25	Visual Marker System for Autonomous Object Handling by Assistive Robotic Arm. <i>Journal of Robotics and Mechatronics</i> , 2011, 23, 484-493.	0.5	6
26	A new framework for two loop disturbance rejection control. <i>International Journal of Control</i> , 2006, 79, 636-649.	1.2	5
27	Multi-Functional Active Caster Module for Distributed Actuation Devices. , 2006, , .		4
28	Ubiquitous Function Services Based Control for Robots with Ambient Intelligence. <i>Industrial Electronics Society (IECON), Annual Conference of IEEE</i> , 2006, , .	0.0	4
29	Development of ubiquitous mobile manipulator system with RT-Middleware. , 2007, , .		4
30	Sensor data processing based on the data log system using the portable IoT device and RT-Middleware. , 2015, , .		4
31	DISTURBANCE OBSERVER BASED APPROACH TO THE DESIGN OF SLIDING MODE CONTROLLER FOR HIGH PERFORMANCE POSITIONING SYSTEMS. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2002, 35, 55-60.	0.4	3
32	Kinematic analysis on omni-directional mobile robot with double-wheel-type active casters. , 2007, , .		3
33	Multiple robots localization using large planar camera array for automated guided vehicle system. , 2008, , .		3
34	Motion control of precision positioning systems using adaptive compensation. , 2002, , .		2
35	Localization of Outdoor Mobile Robot with Multi-Path Bias Detection. , 2007, , .		2
36	Connecting the Physical World and Events Schedule of User Calendar for Symbiotic Systems. , 2007, , .		2

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37	Implementation of E-Car System Based on Integrated Prototyping. , 2008, , .		2
38	A large planar camera array for multiple automated guided vehicles localization. , 2008, , .		2
39	Design and control of the librarian robot system in the ubiquitous robot technology space. , 2008, , .		2
40	Input preshaping vibration suppression of beam-mass-cart systems using robust internal-loop compensator. , 0, , .		1
41	PTP motion control of XY positioning systems with a flexible beam. , 0, , .		1
42	Development of simulation framework for ubiquitous robots using RT-middleware. , 2007, , .		1
43	Parameter identification for an omni-directional mobile system with distributed mobile actuator module. , 2008, , .		1
44	Connection Framework of RT-Middleware and CAMUS for Maintaining Ubiquity between Two Ubiquitous Robot Spaces. Advanced Robotics, 2009, 23, 1703-1723.	1.1	1
45	Visibility reduction based performance evaluation of vision-based safety sensors. , 2015, , .		1
46	Evaluation of Detection Performance for Safety-Related Sensors in Low-Visibility Environments. IEEE Sensors Journal, 2021, 21, 18855-18863.	2.4	1
47	Bias estimation of DGPS multi-path data for localization of mobile robot. , 2007, , .		0
48	Localization of ubiquitous environment based mobile robot. , 2007, , .		0
49	Connection methodology for two ubiquitous robot spaces - connection of RT-Middleware and CAMUS. , 2008, , .		0
50	Boundary coverage path planning for modeling of building interiors. , 2012, , .		0
51	UML-based design of a robotic wheelchair system for indoor navigation using a visual marker. , 2015, , .		0