

Seok-Kyoon Kim

List of Publications by Year in descending order

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844
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#	ARTICLE	IF	CITATIONS
1	Feedback Loop Adaptation Speed Feedback Systems for PMSMs via Angle Filtering and Acceleration Stabilization Techniques. IEEE Transactions on Industrial Electronics, 2023, 70, 4416-4426.	7.9	0
2	Computationally Efficient Model Predictive Torque Control of Permanent Magnet Synchronous Machines Using Numerical Techniques. IEEE Transactions on Control Systems Technology, 2022, 30, 1774-1781.	5.2	6
3	Active-Damping Speed Tracking Technique for Permanent Magnet Synchronous Motors With Transient Performance Boosting Mechanism. IEEE Transactions on Industrial Informatics, 2022, 18, 2171-2179.	11.3	15
4	Performance-Boosting Attitude Control for 2-DOF Helicopter Applications via Surface Stabilization Approach. IEEE Transactions on Industrial Electronics, 2022, 69, 7234-7243.	7.9	13
5	Output-Voltage-Tracking Control for Buck Converters Using Variable Convergence Rate Mechanism Without Current Feedback. IEEE Transactions on Industrial Electronics, 2022, 69, 2938-2946.	7.9	5
6	Learning and Adaptation-Based Position-Tracking Controller for Rover Vehicle Applications Considering Actuator Dynamics. IEEE Transactions on Industrial Electronics, 2022, 69, 2976-2985.	7.9	5
7	Variable-Performance Nonlinear Feedback Filter Based on Dynamic Surface Stabilization Approach. IEEE/ASME Transactions on Mechatronics, 2022, 27, 2721-2728.	5.8	0
8	Online current cut-off frequency self-tuning active damping speed controller for permanent magnet synchronous motors. IET Power Electronics, 2022, 15, 57.	2.1	0
9	Stable Speed Estimator for BLDCM Servo System Applications. IEEE Transactions on Circuits and Systems II: Express Briefs, 2022, 69, 2822-2826.	3.0	0
10	Order Reduction Approach to Velocity Sensorless Performance Recovery PD-Type Attitude Stabilizer for 2-DOF Helicopter Applications. IEEE Transactions on Industrial Informatics, 2022, 18, 6848-6856.	11.3	4
11	Current-Sensorless Energy-Shaping Output Voltage-Tracking Control for dc/dc Boost Converters With Damping Adaptation Mechanism. IEEE Transactions on Power Electronics, 2022, 37, 9266-9274.	7.9	5
12	Single-loop output-feedback positioning technique for servo systems via second-order pole-zero cancellation approach. Mechatronics, 2022, 84, 102796.	3.3	0
13	Model-Independent Observer-Based Current Sensorless Speed Servo Systems with Adaptive Feedback Gain. Actuators, 2022, 11, 126.	2.3	3
14	Decentralized Current Sensorless Speed Synchronization with Feedback-Loop Adaptation for Multi-Servo System Applications. IEEE Transactions on Industrial Electronics, 2022, , 1-1.	7.9	1
15	Nonlinear Positioning Technique via Dynamic Current Cut-Off Frequency and Observer-Based Pole-Zero Cancellation Approaches for MAGLEV Applications. IEEE Access, 2022, 10, 70143-70153.	4.2	1
16	Model-Free Observer for Speed and Acceleration Estimations for Speed Servo System Applications. IEEE Transactions on Circuits and Systems II: Express Briefs, 2022, 69, 4944-4948.	3.0	0
17	Decentralized Tension Control With Active-Damping Injection for Large-Scale Roll-to-Roll Systems. IEEE Systems Journal, 2021, 15, 5694-5703.	4.6	7
18	Current and Position Sensor Fault Diagnosis Algorithm for PMSM Drives Based on Robust State Observer. IEEE Transactions on Industrial Electronics, 2021, 68, 5227-5236.	7.9	35

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19	Energy-Shaping Speed Controller With Time-Varying Damping Injection for Permanent-Magnet Synchronous Motors. IEEE Transactions on Circuits and Systems II: Express Briefs, 2021, 68, 381-385.	3.0	16
20	Position-Tracking Controller for Two-Wheeled Balancing Robot Applications Using Invariant Dynamic Surface. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 705-711.	9.3	11
21	Real-Time Optimal Torque Control of Interior Permanent Magnet Synchronous Motors Based on a Numerical Optimization Technique. IEEE Transactions on Control Systems Technology, 2021, 29, 1815-1822.	5.2	8
22	Variable-Performance Proportional-Type Angle-Filtering System for Motor Drives. IEEE Transactions on Circuits and Systems II: Express Briefs, 2021, 68, 511-515.	3.0	5
23	Proportional-Derivative Voltage Control With Active Damping for DC/DC Boost Converters via Current Sensorless Approach. IEEE Transactions on Circuits and Systems II: Express Briefs, 2021, 68, 737-741.	3.0	15
24	Variable-Performance Positioning Law for Hybrid-Type Stepper Motors via Active Damping Injection and Disturbance Observer. IEEE Transactions on Circuits and Systems II: Express Briefs, 2021, 68, 1308-1312.	3.0	6
25	Variable Cut-Off Frequency Algorithm-Based Nonlinear Position Controller for Magnetic Levitation System Applications. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 4599-4605.	9.3	10
26	Output-Feedback Speed-Tracking Control Without Current Feedback for BLDCMs Based on Active-Damping and Invariant Surface Approach. IEEE Transactions on Circuits and Systems II: Express Briefs, 2021, 68, 2528-2532.	3.0	11
27	Variable Cut-Off Frequency Observer-Based Positioning for Ball-Beam Systems Without Velocity and Current Feedback Considering Actuator Dynamics. IEEE Transactions on Circuits and Systems I: Regular Papers, 2021, 68, 396-405.	5.4	8
28	Observer-Based Proportional-Type Controller for Two-Wheeled Mobile Robots via Simple Coordinate Transformation Technique. IEEE Transactions on Vehicular Technology, 2021, 70, 11458-11468.	6.3	1
29	Velocity-sensorless proportional-derivative trajectory tracking control with active damping for quadcopters. Nonlinear Dynamics, 2021, 103, 1681-1692.	5.2	6
30	DC Motor Speed Regulator via Active Damping Injection and Angular Acceleration Estimation Techniques. IEEE/CAA Journal of Automatica Sinica, 2021, 8, 641-647.	13.1	3
31	Cascade-Type Pole-Zero Cancellation Output Voltage Regulator for DC/DC Boost Converters. Energies, 2021, 14, 3824.	3.1	4
32	Observer-based decentralized pole-zero cancellation tension control with gain booster and surface stabilizer for roll-to-roll systems. Nonlinear Dynamics, 2021, 105, 2313-2326.	5.2	4
33	Angular Velocity Observer-Based Quadcopter Attitude Stabilization via Pole-Zero Cancellation Technique. IEEE Transactions on Circuits and Systems II: Express Briefs, 2021, 68, 2458-2462.	3.0	7
34	Active Damping Injection Output Voltage Control with Dynamic Current Cut-Off Frequency for DC/DC Buck Converters. Energies, 2021, 14, 6848.	3.1	5
35	Delay-Dependent State-Feedback Dissipative Control for Suspension Systems With Constraints Using a Generalized Free-Weighting-Matrix Method. IEEE Access, 2021, 9, 145573-145582.	4.2	0
36	Pole-Zero Cancellation Speed Control With Variable Current Cut-Off Frequency for Servo Motors. IEEE Access, 2021, 9, 161248-161255.	4.2	1

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37	Output-Feedback Position Tracking Servo System with Feedback Gain Learning Mechanism via Order-Reduction Speed-Error-Stabilization Approach. <i>Actuators</i> , 2021, 10, 324.	2.3	1
38	Adaptive Nonlinear Tracking Control Algorithm for Quadcopter Applications. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , 2020, 56, 84-94.	4.7	21
39	Auto-Tuning Proportional-Type Synchronization Algorithm for DC Motor Speed Control Applications. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2020, 67, 521-525.	3.0	10
40	Velocity Observer-Based Nonlinear Self-Tuning Position Stabilizer for Ball-Beam System Applications. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2020, 67, 1309-1313.	3.0	3
41	Learning Algorithm-Based Offset-Free One-Step Time-Delay Compensation for Power Converter and Motor Drive System Applications. <i>IEEE Transactions on Industrial Informatics</i> , 2020, 16, 3789-3796.	11.3	7
42	Disturbance Observer-Based Offset-Free Global Tracking Control for Input-Constrained LTI Systems with DC/DC Buck Converter Applications. <i>Energies</i> , 2020, 13, 4079.	3.1	4
43	Variable-Performance Servo System Design Without Actuator Current and Angle Measurement for Rover Vehicles. <i>IEEE Transactions on Vehicular Technology</i> , 2020, 69, 12725-12733.	6.3	4
44	Self-Tuning Nonlinear Control System Design for Roll-to-Roll Printing Systems. <i>IEEE/ASME Transactions on Mechatronics</i> , 2020, 25, 2667-2676.	5.8	14
45	Position Regulator With Variable Cut-Off Frequency Mechanism for Hybrid-Type Stepper Motors. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2020, 67, 3533-3540.	5.4	14
46	Active damping injection controller for web longitude and tensions of nonlinear roll-to-roll systems. <i>Nonlinear Dynamics</i> , 2020, 100, 3367-3379.	5.2	7
47	Sensorless nonlinear position stabilizing control for magnetic levitation systems. <i>IET Control Theory and Applications</i> , 2020, 14, 2682-2687.	2.1	5
48	Velocity-Sensorless Decentralized Tension Control for Roll-to-Roll Printing Machines. <i>IEEE Access</i> , 2020, 8, 93682-93691.	4.2	4
49	Nonlinear Signal-Filtering Technique With Real-Time Gain Booster for Feedback System Applications. <i>IEEE Signal Processing Letters</i> , 2020, 27, 2183-2187.	3.6	2
50	Self-Tuning Proportional-Type Performance Recovery Property Output Voltage-Tracking Algorithm for DC-DC Boost Converter. <i>IEEE Transactions on Industrial Electronics</i> , 2019, 66, 3167-3175.	7.9	21
51	Auto-Tuner-Based Controller for Quadcopter Attitude Tracking Applications. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2019, 66, 2012-2016.	3.0	17
52	Performance Recovery Tracking-Controller for Quadcopters via Invariant Dynamic Surface Approach. <i>IEEE Transactions on Industrial Informatics</i> , 2019, 15, 5235-5243.	11.3	21
53	Proportional-Type Sensor Fault Diagnosis Algorithm for DC/DC Boost Converters Based on Disturbance Observer. <i>Energies</i> , 2019, 12, 1412.	3.1	3
54	Robust Invariant Manifold-Based Output Voltage-Tracking Controller for DC/DC Boost Power Conversion Systems. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2019, , 1-8.	9.3	7

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55	Nonlinear Position Stabilizing Control with Active Damping Injection Technique for Magnetic Levitation Systems. Electronics (Switzerland), 2019, 8, 221.	3.1	8
56	Using the Stator Current Ripple Model for Real-Time Estimation of Full Parameters of a Permanent Magnet Synchronous Motor. IEEE Access, 2019, 7, 33369-33379.	4.2	20
57	Output voltage tracking controller embedding auto-tuning algorithm for DC/DC boost converters. IET Power Electronics, 2019, 12, 3767-3773.	2.1	4
58	Performance-recovery proportional-type output-voltage tracking algorithm of three-phase inverter for uninterruptible power supply applications. IET Circuits, Devices and Systems, 2019, 13, 185-192.	1.4	2
59	Nonlinear Tracking Controller for DC/DC Boost Converter Voltage Control Applications via Energy-Shaping and Invariant Dynamic Surface Approach. IEEE Transactions on Circuits and Systems II: Express Briefs, 2019, 66, 1855-1859.	3.0	13
60	Offset-Free Proportional-Type Self-Tuning Speed Controller for Permanent Magnet Synchronous Motors. IEEE Transactions on Industrial Electronics, 2019, 66, 7168-7176.	7.9	17
61	Self-Tuning Position-Tracking Controller for Two-Wheeled Mobile Balancing Robots. IEEE Transactions on Circuits and Systems II: Express Briefs, 2019, 66, 1008-1012.	3.0	11
62	Performance recovery output voltage control algorithm for AC/DC converter. International Journal of Control, 2019, 92, 987-1000.	1.9	1
63	Output Voltage-Tracking Controller With Performance Recovery Property for DC/DC Boost Converters. IEEE Transactions on Control Systems Technology, 2019, 27, 1301-1307.	5.2	21
64	Proportional-type nonlinear excitation controller with power angle reference estimator for single-machine infinite-bus power system. IET Generation, Transmission and Distribution, 2019, 13, 4029-4036.	2.5	5
65	Robust Phase Estimation of a Hybrid Monte Carlo/Finite Memory Digital Phase-Locked Loop. IEICE Transactions on Information and Systems, 2019, E102.D, 1089-1092.	0.7	0
66	Robust speed control algorithm with disturbance observer for uncertain PMSM. International Journal of Electronics, 2018, 105, 1300-1318.	1.4	11
67	Proportional-type performance recovery current tracking control algorithm for PMSM. IET Electric Power Applications, 2018, 12, 332-338.	1.8	9
68	Robust DC-Link Voltage Tracking Controller with Variable Control Gain for Permanent Magnet Synchronous Generators. Electronics (Switzerland), 2018, 7, 339.	3.1	3
69	Passivity-Based Robust Output Voltage Tracking Control of DC/DC Boost Converter for Wind Power Systems. Energies, 2018, 11, 1469.	3.1	7
70	Disturbance Observer-based Proportional-type Position Tracking Controller for DC Motor. International Journal of Control, Automation and Systems, 2018, 16, 2169-2176.	2.7	17
71	Robust optimal output voltage tracking algorithm for interleaved N-phase DC/DC boost converter with performance recovery property. International Journal of Electronics, 2018, 105, 1673-1694.	1.4	5
72	Proportional-Type Output Voltage-Tracking Controller for Interleaved DC/DC Boost Converter with Performance Recovery Property. Mathematical Problems in Engineering, 2018, 2018, 1-12.	1.1	0

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73	Robust Offset-Free Speed Tracking Controller of Permanent Magnet Synchronous Generator for Wind Power Generation Applications. <i>Electronics (Switzerland)</i> , 2018, 7, 48.	3.1	3
74	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	10
75	Robust output voltage tracking algorithm for three-phase rectifier with variable sliding surface. <i>IET Power Electronics</i> , 2018, 11, 1119-1127.	2.1	9
76	Self-Tuning Adaptive Speed Controller for Permanent Magnet Synchronous Motor. <i>IEEE Transactions on Power Electronics</i> , 2017, 32, 1493-1506.	7.9	34
77	Robust adaptive speed regulator with self-tuning law for surfaced-mounted permanent magnet synchronous motor. <i>Control Engineering Practice</i> , 2017, 61, 55-71.	5.5	30
78	Proportional-Type Performance Recovery DC-Link Voltage Tracking Algorithm for Permanent Magnet Synchronous Generators. <i>Energies</i> , 2017, 10, 1387.	3.1	1
79	Offset-Free One-Step Ahead State Predictor for Power Electronic Applications Using Robust Proportional-Integral Observer. <i>IEEE Transactions on Industrial Electronics</i> , 2016, 63, 1763-1770.	7.9	12
80	Singularity-Free Adaptive Speed Tracking Control for Uncertain Permanent Magnet Synchronous Motor. <i>IEEE Transactions on Power Electronics</i> , 2016, 31, 1692-1701.	7.9	60
81	Disturbance-observer-based model predictive control for output voltage regulation of three-phase inverter for uninterruptible-power-supply applications. <i>European Journal of Control</i> , 2015, 23, 71-83.	2.6	38
82	Offset-Free Model Predictive Control for the Power Control of Three-Phase AC/DC Converters. <i>IEEE Transactions on Industrial Electronics</i> , 2015, 62, 7114-7126.	7.9	55
83	Offset-Free Robust Adaptive Back-Stepping Speed Control for Uncertain Permanent Magnet Synchronous Motor. <i>IEEE Transactions on Power Electronics</i> , 2015, , 1-1.	7.9	27
84	Robust one-step ahead state predictor using adaptive proportional-integral observer. <i>IET Power Electronics</i> , 2015, 8, 2411-2417.	2.1	6
85	Damping improvement and terminal voltage regulation for a synchronous machine using an energy storage device. <i>International Journal of Electronics</i> , 2015, 102, 582-598.	1.4	3
86	Adaptive observer for estimating the parameters of an HIV model with mutants. <i>International Journal of Control, Automation and Systems</i> , 2015, 13, 126-137.	2.7	7
87	Robust Feedback-Linearizing Output Voltage Regulator for DC/DC Boost Converter. <i>IEEE Transactions on Industrial Electronics</i> , 2015, 62, 7127-7135.	7.9	52
88	Self-tuning adaptive feedback linearizing output voltage control for AC/DC converter. <i>Control Engineering Practice</i> , 2015, 45, 1-11.	5.5	3
89	Enhancing Tracking Performance of a Bilinear System using MPC. <i>Journal of Institute of Control, Robotics and Systems</i> , 2015, 21, 237-242.	0.2	0
90	Use of model predictive controller in dual-loop control of three-phase PWM AC/DC converter. <i>International Journal of Control, Automation and Systems</i> , 2014, 12, 340-348.	2.7	12

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91	A Stabilizing Model Predictive Controller for Voltage Regulation of a DC/DC Boost Converter. IEEE Transactions on Control Systems Technology, 2014, 22, 2016-2023.	5.2	103
92	A stabilizing model predictive controller for voltage regulation of a DC/DC converter. , 2013, , .		3
93	A simple model predictive controller of a three-phase PWM AC/DC converter. , 2013, , .		0
94	Model predictive control (MPC) based direct torque control (DTC) of permanent magnet synchronous motors (PMSMs). , 2013, , .		7
95	Output feedback model predictive controller for voltage regulation of a DC/DC converter. IET Control Theory and Applications, 2013, 7, 1959-1968.	2.1	40
96	Speed and current regulation for uncertain PMSM using adaptive state feedback and backstepping control. , 2009, , .		3
97	Nonlinear output-feedback speed servo systems through active damping injection and position filtering approaches without current feedback. Journal of Power Electronics, 0, , .	1.5	1