

K-V Ling

List of Publications by Year in descending order

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155
papers

2,213
citations

411340

20
h-index

355658

38
g-index

155
all docs

155
docs citations

155
times ranked

1947
citing authors

#	ARTICLE	IF	CITATIONS
1	Air Leakage Detection of Pneumatic Train Door Subsystems Using Open Set Recognition. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-9.	2.4	2
2	Recursive maximum likelihood estimation with $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e1769" altimg="si5.svg" \rangle \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ -distribution noise model. Automatica, 2021, 132, 109789.	3.0	6
3	Robust Power System State Estimation Using $\langle i \rangle \langle /i \rangle$ -Distribution Noise Model. IEEE Systems Journal, 2020, 14, 771-781.	2.9	19
4	A Combined Cycle Gas Turbine Model for Heat and Power Dispatch Subject to Grid Constraints. IEEE Transactions on Sustainable Energy, 2020, 11, 448-456.	5.9	20
5	Covariance Analysis of LAV Robust Dynamic State Estimation in Power Systems. IEEE Systems Journal, 2020, 14, 2801-2812.	2.9	4
6	Conditional Gaussian Distribution Learning for Open Set Recognition. , 2020, , .		123
7	Differential Kalman Filter Design for GNSS Open Loop Tracking. Remote Sensing, 2020, 12, 812.	1.8	3
8	Optimum Placement of Phasor Measurement Units in Power Systems. IEEE Transactions on Instrumentation and Measurement, 2019, 68, 421-429.	2.4	38
9	A general dissipativity constraint for feedback system design, with emphasis on MPC. International Journal of Robust and Nonlinear Control, 2019, 29, 4775-4796.	2.1	5
10	Analysis of a federal Kalman filter-based tracking loop for GPS signals. GPS Solutions, 2019, 23, 1.	2.2	3
11	A clusterized energy management with linearized losses in the presence of multiple types of distributed generation. International Journal of Electrical Power and Energy Systems, 2019, 113, 9-22.	3.3	12
12	Full Coverage of Optimal Phasor Measurement Unit Placement Solutions in Distribution Systems Using Integer Linear Programming. Energies, 2019, 12, 1552.	1.6	24
13	Model Predictive Direct Torque Control of Permanent Magnet Synchronous Motor for Torque Ripple Reduction. , 2019, , .		2
14	Experiments with hybrid Bernstein global optimization algorithm for the OPF problem in power systems. Engineering Optimization, 2019, 51, 1446-1461.	1.5	3
15	Stability Analysis of Event-Triggered Anytime Control With Multiple Control Laws. IEEE Transactions on Automatic Control, 2019, 64, 420-426.	3.6	6
16	Coordinate control of air movement for optimal thermal comfort. Science and Technology for the Built Environment, 2018, 24, 886-896.	0.8	10
17	Indoor Tracking With the Generalized $\langle \text{inline-formula} \rangle$ $\langle \text{tex-math notation="LaTeX"} \rangle \langle \text{\$} \rangle \langle \text{/tex-math} \rangle$ $\langle \text{inline-formula} \rangle$ -Distribution Noise Model. IEEE Transactions on Control Systems Technology, 2018, 26, 915-926.	3.2	6
18	A Generic Method to Model CO ₂ Emission Performances of Combined-Cycle Power Plants for Environmental Unit Commitment. Energy Technology, 2018, 6, 72-83.	1.8	3

#	ARTICLE	IF	CITATIONS
19	A Generic Benchmark for Power Market Analysis From Generation Mix To End-Users. , 2018, , .		0
20	Intelligent Fault Detection and Diagnosis of Air Leakage on Train Door. , 2018, , .		4
21	Constraints Tightening Approach Towards Model Predictive Control Based Rendezvous and Docking with Uncooperative Targets. , 2018, , .		1
22	Fastened Unit Commitment with Loss Linearization for Distributed Generation Planning Studies. , 2018, , .		1
23	A trust-region based sequential linear programming approach for AC optimal power flow problems. Electric Power Systems Research, 2018, 165, 134-143.	2.1	16
24	Computational Load Comparison of Multiplexed and Standard Model Predictive Control. , 2018, , .		0
25	Generalized GNSS Signal Carrier Tracking: Part Iâ€”Modeling and Analysis. IEEE Transactions on Aerospace and Electronic Systems, 2017, 53, 1781-1797.	2.6	42
26	Generalized GNSS Signal Carrier Trackingâ€”Part II: Optimization and Implementation. IEEE Transactions on Aerospace and Electronic Systems, 2017, 53, 1798-1811.	2.6	31
27	Model predictive control of a CSTR: A comparative study among linear and nonlinear model approaches. , 2017, , .		3
28	Variance analysis of robust state estimation in power system using influence function. International Journal of Electrical Power and Energy Systems, 2017, 92, 53-62.	3.3	19
29	A tracking cooling fan using geofence and camera-based indoor localization. Building and Environment, 2017, 114, 36-44.	3.0	31
30	A generic method to model carbon emission of combined cycle for environmental power dispatch. , 2017, , .		1
31	Improved Bernstein Optimization Based Nonlinear Model Predictive Control Scheme for Power Systems. IFAC-PapersOnLine, 2017, 50, 537-544.	0.5	0
32	Banded Null Basis and ADMM for Embedded MPC * *This research is supported by the National Research Foundation, Prime Ministers Office, Singapore under its CREATE programme. IFAC-PapersOnLine, 2017, 50, 13170-13175.	0.5	6
33	Optimal nonlinear model predictive control based on Bernstein polynomial approach. , 2017, , .		1
34	Distributed State Estimation Using a Modified Partitioned Moving Horizon Strategy for Power Systems. Sensors, 2017, 17, 2310.	2.1	14
35	Nonlinear model predictive control based on Bernstein global optimization with application to a nonlinear CSTR. , 2016, , .		3
36	Predictive control based framework for optimal scheduling of combined cycle gas turbines. , 2016, , .		6

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37	Examining the Bernstein global optimization approach to optimal power flow problem. AIP Conference Proceedings, 2016, , .	0.3	2
38	Event-triggered anytime control with two controllers. , 2015, , .		1
39	Distributed Moving Horizon Estimation for power systems. , 2015, , .		3
40	Multiplexed model predictive control of interconnected systems. , 2015, , .		1
41	Embedded ADMM-based QP solver for MPC with polytopic constraints. , 2015, , .		13
42	A Performance Improvement Method for Low-Cost Land Vehicle GPS/MEMS-INS Attitude Determination. Sensors, 2015, 15, 5722-5746.	2.1	33
43	Dynamic scaffolding in a cloud-based problem representation system. Campus Wide Information Systems, 2014, 31, 346-356.	1.1	1
44	Improved indoor tracking based on generalized t-distribution noise model. , 2014, , .		1
45	Model predictive control via quadratic dissipativity constraint. , 2014, , .		11
46	Moving horizon estimation on a chip. , 2014, , .		0
47	Application of quadratically-constrained model predictive control in power systems. , 2014, , .		4
48	Closed-loop development for dissipativity constraint. , 2014, , .		3
49	Iterated moving horizon estimation for power systems. , 2014, , .		3
50	A new NCO model for tracking loop design in GNSS software receivers. , 2014, , .		2
51	A scalable and compact systolic architecture for linear solvers. , 2014, , .		0
52	Model predictive control of nonlinear input-affine systems with feasibility and stability constraints. , 2014, , .		5
53	Filtering of the ARMAX Process with Generalized t -Distribution Noise: The Influence Function Approach. Industrial & Engineering Chemistry Research, 2014, 53, 7019-7028.	1.8	16
54	Generalized eigenvalue minimization for uncertain first-order plus time-delay processes. ISA Transactions, 2014, 53, 141-149.	3.1	2

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55	Reserve management and real time optimization for a solar powered Membrane Distillation Bio-Reactor water recycling plant via convex optimization. Renewable Energy, 2013, 60, 489-497.	4.3	5
56	Inertia sensor-based guidance system for upperlimb posture correction. Medical Engineering and Physics, 2013, 35, 269-276.	0.8	30
57	Influence Function Analysis of Parameter Estimation with Generalized t Distribution Noise Model. Industrial & Engineering Chemistry Research, 2013, 52, 4168-4177.	1.8	10
58	Models for characterizing noise based PCMOs circuits. Transactions on Embedded Computing Systems, 2013, 13, 1-30.	2.1	0
59	The effect of sample/hold time on initial feasible set in model predictive control design. , 2013, , .		0
60	Model predictive control for deeply pipelined field-programmable gate array implementation: algorithms and circuitry. IET Control Theory and Applications, 2012, 6, 1029-1041.	1.2	44
61	FPGA based wireless sensor node for distributed process monitoring. , 2012, , .		5
62	Editorial: Implementation of feedback controllers. IET Control Theory and Applications, 2012, 6, 1001-1002.	1.2	0
63	Performance evaluation of multiplexed model predictive control for a large airliner in nominal and contingency scenarios. , 2012, , .		3
64	Verification of audio signal processing algorithm using real-time simulator. , 2012, , .		1
65	Multiplexed model predictive control. Automatica, 2012, 48, 396-401.	3.0	32
66	Low Power Probabilistic Floating Point Multiplier Design. , 2011, , .		27
67	A novel and fast method for characterizing noise based PCMOs circuits. , 2011, , .		0
68	Application of model predictive control in wireless sensor networks. , 2011, , .		2
69	Modeling multi-output filtering effects in PCMOs. , 2011, , .		8
70	“Left Arm Up!” Interactive Yoga training in virtual environment. , 2011, , .		13
71	Integral-Square-Error Performance of Multiplexed Model Predictive Control. IEEE Transactions on Industrial Informatics, 2011, 7, 196-203.	7.2	25
72	Parallel move blocking Model Predictive Control. , 2011, , .		27

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73	Guest Editorialâ€”BSN2010 Special Issue. IEEE Transactions on Biomedical Circuits and Systems, 2011, 5, 305-306.	2.7	0
74	Channel-Hopping Model Predictive Control. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 11417-11422.	0.4	6
75	Parallel MPC for Real-Time FPGA-based Implementation. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 1338-1343.	0.4	16
76	A parallel formulation for predictive control with nonuniform hold constraints. Annual Reviews in Control, 2011, 35, 207-214.	4.4	8
77	Designing online problem representation engine for conceptual change. Campus Wide Information Systems, 2011, 29, 61-69.	1.1	2
78	Inertia Sensor based Assistive Devices to Rectify Human Upperlimb Postures. , 2011, , .		0
79	Near Optimal Tracking Solution for Input Constrained UAV using MPC*. , 2010, , .		3
80	Applications of convex optimization in plant-wide control of Membrane Distillation Bio-Reactor (MDBR) water recycling plant. , 2010, , .		1
81	A general mathematical model of probabilistic ripple-carry adders. , 2010, , .		5
82	Robust Multiplexed Model Predictive Control for agent-based conflict resolution. , 2010, , .		4
83	Towards machine diagnostics on chip. , 2010, , .		2
84	Wireless GMR Sensor Node for Vibration Monitoring. , 2010, , .		3
85	Modeling of Probabilistic Ripple-Carry Adders. , 2010, , .		7
86	A More Precise Model of Noise Based PCMOs Errors. , 2010, , .		12
87	Integration of Sensing and Feedback Components for Human Motion Replication. , 2010, , .		4
88	Multiplexed MPC for Multizone Thermal Processing in Semiconductor Manufacturing. IEEE Transactions on Control Systems Technology, 2010, 18, 1371-1380.	3.2	18
89	Multi-Zone Thermal Processing in Semiconductor Manufacturing: Bias Estimation. IEEE Transactions on Industrial Informatics, 2010, 6, 216-228.	7.2	9
90	Implementation of Fast Fourier Transform on Body Sensor Networks. , 2010, , .		6

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91	A comparison of interior point and active set methods for FPGA implementation of model predictive control. , 2009, , .		44
92	Model Predictive Control of Unified Power Quality Conditioner with control saturation. , 2009, , .		2
93	The Robust Model Predictive Control Design Problem. , 2009, , .		3
94	Hybrid-processors real-time embedded Linux platform. , 2009, , .		1
95	Energy-aware probabilistic multiplier. , 2009, , .		70
96	Computing the cost of multiplexed MPC. , 2008, , .		2
97	Embedded Model Predictive Control (MPC) using a FPGA. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 15250-15255.	0.4	68
98	The national weather sensor grid. , 2007, , .		7
99	Application of Model Predictive Control to Parallel-Type Double Inverted Pendulum Driven by a Linear Motor. , 2007, , .		8
100	Measurement Bias Detection, Identification and Elimination for Multi-Zone Thermal Processing in Semiconductor Manufacturing. , 2007, , .		0
101	Robust multiplexed model predictive control. , 2007, , .		10
102	A FPGA implementation of model predictive control. , 2006, , .		95
103	Development of Sensor Node for Distributed Data Rectification. , 2006, , .		2
104	Message Discovery in SEMI Communication for Rapid Equipment Integration. , 2006, , .		0
105	Online context switching for real time control applications using reconfigurable fuzzy inference chip. International Journal of Computer Applications in Technology, 2006, 27, 153.	0.3	0
106	INTEGRATING MRI AND MRSI INFORMATION INTO TRUS-GUIDED ROBOTIC PROSTATE BIOPSY. International Journal of Humanoid Robotics, 2006, 03, 499-522.	0.6	1
107	EFFICIENT 3D PROSTATE SURFACE DETECTION FOR ULTRASOUND GUIDED ROBOTIC BIOPSY. International Journal of Humanoid Robotics, 2006, 03, 439-461.	0.6	1
108	Online Parameter Estimation for Surgical Needle Steering Model. Lecture Notes in Computer Science, 2006, 9, 321-329.	1.0	6

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109	Evaluation on Similarity Measures of a Surface-to-Image Registration Technique for Ultrasound Images. Lecture Notes in Computer Science, 2006, 9, 742-749.	1.0	4
110	An Architecture for Online Laboratory E-Learning System. International Journal of Distance Education Technologies, 2006, 4, 87-101.	1.9	9
111	<title>Preliminary work of a smart needling project</title>. , 2005, , .		0
112	MULTIPLEXED MODEL PREDICTIVE CONTROL. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2005, 38, 574-579.	0.4	28
113	Deformable registration for integration of MRI/MRSI information in TRUS-guided prostate biopsy. , 2005, 5747, 1263.		1
114	Stabilizing Synchronization Control of Rotor-Magnetic Bearing Systems. Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering, 2005, 219, 499-510.	0.7	6
115	THE RAPID DEVELOPMENT OF A CLOSED-LOOP CONTROL SYSTEM. International Journal of Software Engineering and Knowledge Engineering, 2005, 15, 325-331.	0.6	2
116	H-infinity Inverse Optimal Attitude-Tracking Control of Rigid Spacecraft. Journal of Guidance, Control, and Dynamics, 2005, 28, 481-494.	1.6	95
117	Inverse optimal adaptive control for attitude tracking of spacecraft. IEEE Transactions on Automatic Control, 2005, 50, 1639-1654.	3.6	354
118	AUTOMATIC 3D PROSTATE SURFACE DETECTION FROM TRUS WITH LEVEL SETS. International Journal of Image and Graphics, 2004, 04, 385-403.	1.2	9
119	Class of 4 + 1-phase algorithms with error compensation. Applied Optics, 2004, 43, 4199.	2.1	16
120	H/sub /spl infin// tracking control of a rigid spacecraft. , 2004, , .		1
121	A model predictive controller for multirate cascade systems. , 2004, , .		9
122	In-vehicle GPS/DR navigation system development and test results in Singapore. Wuhan University Journal of Natural Sciences, 2003, 8, 544-550.	0.2	3
123	Prostate Boundary Detection From Ultrasonographic Images. Journal of Ultrasound in Medicine, 2003, 22, 605-623.	0.8	45
124	Registration of Organ Surface with Intra-operative 3D Ultrasound Image Using Genetic Algorithm. Lecture Notes in Computer Science, 2003, , 383-390.	1.0	10
125	GPS based IPS for ERP vehicles. IEEE Aerospace and Electronic Systems Magazine, 2001, 16, 10-14.	2.3	5
126	Magnetic tracker calibration for an augmented reality system for therapy. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2001, 215, 51-59.	1.0	2

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127	An Online Internet Laboratory for Control Experiments. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2000, 33, 173-176.	0.4	5
128	Automatic prostate boundary recognition in sonographic images using feature model and genetic algorithm.. Journal of Ultrasound in Medicine, 2000, 19, 771-782.	0.8	16
129	Receding horizon recursive state estimation. IEEE Transactions on Automatic Control, 1999, 44, 1750-1753.	3.6	91
130	Augmented reality systems for medical applications. IEEE Engineering in Medicine and Biology Magazine, 1998, 17, 49-58.	1.1	96
131	Generalised predictive controller with pole restriction. IET Control Theory and Applications, 1998, 145, 219-225.	1.7	4
132	Evaluating generalized predictive control for a brushless DC drive. IEEE Transactions on Power Electronics, 1998, 13, 1191-1198.	5.4	23
133	A state space GPC with extensions to multirate control. Automatica, 1996, 32, 1067-1071.	3.0	32
134	Model-based predictive controller. , 1994, , .		1
135	Expert control of air-conditioning plant. Automatica, 1994, 30, 761-773.	3.0	26
136	SELF-TUNING CONTROL WITH FUZZY RULE-BASED SUPERVISION FOR HVAC APPLICATIONS. , 1991, , 205-209.		3
137	Generalized predictive control of a heat exchanger. Control Systems Magazine, 1989, 9, 9-12.	0.1	19
138	Generalised Predictive Control Of A Heat Exchanger. , 0, , .		2
139	Multirate control for a gasification process. , 0, , .		4
140	State observer design using deterministic least squares technique. , 0, , .		3
141	A DSP-based servo system using generalized predictive control. , 0, , .		2
142	Prototype design and implementation for urban area in-car navigation system. , 0, , .		3
143	An efficient heuristic algorithm for multi-constrained path problems. , 0, , .		10
144	Low cost SINS/GPS integration for land vehicle navigation. , 0, , .		20

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145	EDFA spectral equalization by using a genetic algorithm. , 0, , .		0
146	Stabilizing synchronization control of magnetic bearing-based flywheel energy storage systems. , 0, , .		1
147	GPS-based attitude determination for microsatellite using three-antenna technology. , 0, , .		6
148	Evaluation of a surface-to-volume registration method for prostate gland and its application to ultrasound image segmentation. , 0, , .		2
149	Development of an intelligent lift monitoring system for preemptive maintenance. , 0, , .		0
150	Deformable registration between MRI/MRSI and ultrasound images for targeted robotic prostate biopsy. , 0, , .		0
151	An intelligent sensor network for distributed data rectification and process monitoring. , 0, , .		3
152	High Frequency Translational Oscillation & Rotational Drilling of the Needle in Reducing Target Movement. , 0, , .		2
153	Model Predictive Control On A Chip. , 0, , .		8
154	Needle Steering Modeling and Analysis using Unconstrained Modal Analysis. , 0, , .		5
155	GPS Attitude Determination for VELOX-CI Near-Equatorial LEO Microsatellite. , 0, , .		0