Andreas Kugi

List of Publications by Year
in descending order

342 papers	4,506 citations	147801 31 h-index	168389 53 g-index
356 all docs	356 docs citations	356 times ranked	2888 citing authors

#	Article	IF	Citations
1	Cooperative Model Predictive Control Concepts for Coupled AC/DC- and DC/DC-Power Converters. IEEE Transactions on Control Systems Technology, 2023, 31, 359-369.	5.2	5
2	Efficient oscillation detection for verification of mechatronic closed-loop systems using search-based testing. Mechanical Systems and Signal Processing, 2022, 163, 108112.	8.0	3
3	Cancellation of unknown multi-harmonic disturbances in multivariable flexible mechanical structures. Automatica, 2022, 137, 110123.	5.0	6
4	Reheating time optimization for metal products in batch-type furnaces. International Journal of Heat and Mass Transfer, 2022, 186, 122474.	4.8	0
5	Iterative learning and feedback control for the curvature and contact force of a metal strip on a roll. Control Engineering Practice, 2022, 121, 105071.	5.5	1
6	Optimal force control of a permanent magnet linear synchronous motor based on a magnetic equivalent circuit model. Control Engineering Practice, 2022, 122, 105076.	5.5	7
7	Are edger rolls useful to control the plate motion and camber in a reversing rolling mill?. Journal of Process Control, 2022, 114, 71-81.	3.3	2
8	Fast trajectory planning and control of a lab-scale 3D gantry crane for a moving target in an environment with obstacles. Control Engineering Practice, 2022, 126, 105255.	5.5	10
9	A two-stage observer for the compensation of actuator-induced disturbances in tool-force sensors. Mechanical Systems and Signal Processing, 2021, 146, 106989.	8.0	4
10	Stochastic Iterative Learning Control for Lumped- and Distributed-Parameter Systems: A Wiener-Filtering Approach. IEEE Transactions on Automatic Control, 2021, 66, 3856-3862.	5.7	7
11	Nonlinear Model Predictive Control of a Variable-Speed Pumped-Storage Power Plant. IEEE Transactions on Control Systems Technology, 2021, 29, 645-660.	5.2	21
12	Surface-Based Path Following Control: ApplicationÂofÂCurved Tapes on 3-D Objects. IEEE Transactions on Robotics, 2021, 37, 615-626.	10.3	5
13	Modeling and control of a novel pneumatic two-stage piezoelectric-actuated valve. Mechatronics, 2021, 75, 102529.	3.3	1
14	Modeling of a permanent magnet linear synchronous motor using magnetic equivalent circuits. Mechatronics, 2021, 76, 102558.	3.3	14
15	Real-time optimal quantum control of mechanical motion at room temperature. Nature, 2021, 595, 373-377.	27.8	185
16	Continuous-time least-squares forgetting algorithms for indirect adaptive control. European Journal of Control, 2021, 62, 105-112.	2.6	7
17	Fault-tolerant torque control of a three-phase permanent magnet synchronous motor with inter-turn winding short circuit. Control Engineering Practice, 2021, 113, 104846.	5.5	10
18	A novel mass flow controller for tandem hot rolling mills. Journal of Process Control, 2021, 104, 168-177.	3.3	6

#	Article	IF	Citations
19	Optimale Abstützung eines mobilen Großraummanipulators. Automatisierungstechnik, 2021, 69, 782-794.	0.8	2
20	Fast Swing-Up Trajectory Optimization for a Spherical Pendulum on a 7-DoF Collaborative Robot. , 2021, , .		0
21	Optimal Thread-In and Thread-Out Strategies for Heavy Plate Levelers. IFAC-PapersOnLine, 2021, 54, 1-6.	0.9	2
22	Automatic Yaw Rotation of Plates on Roller Tables. IFAC-PapersOnLine, 2021, 54, 19-24.	0.9	0
23	Optimization-based estimator for the lateral strip position in tandem hot rolling. IFAC-PapersOnLine, 2021, 54, 7-12.	0.9	1
24	Optimal Start Times for a Flow Shop with Blocking Constraints, No-Wait Constraints, and Stochastic Processing Times. IFAC-PapersOnLine, 2021, 54, 659-664.	0.9	1
25	Multi-Dimensional Control Performance Assessment for Mechatronic Closed-Loop Systems. , 2021, , .		0
26	Robust Mass Flow Control in Hot Rolling Mills. , 2021, , .		1
27	A design technique for fast sampled-data nonlinear model predictive control with convergence and stability results. International Journal of Control, 2020, 93, 81-97.	1.9	5
28	Model-Predictive Control of Servo-Pump Driven Injection Molding Machines. IEEE Transactions on Control Systems Technology, 2020, 28, 1665-1680.	5.2	11
29	Magnetic Actuator Design for Strip Stabilizers in Hot-Dip Galvanizing Lines: Examining Rules and Basic Tradeoffs. IEEE Industry Applications Magazine, 2020, 26, 54-63.	0.4	5
30	High-Speed Nonlinear MPC with Long Prediction Horizon for Interleaved Switching AC/DC-Converters. , 2020, , .		4
31	Efficient scheduling of a stochastic no-wait job shop with controllable processing times. Expert Systems With Applications, 2020, 162, 113879.	7.6	14
32	High-speed nonlinear model predictive control of an interleaved switching DC/DC-converter. Control Engineering Practice, 2020, 103, 104576.	5.5	24
33	Adaptive feedforward thickness control in hot strip rolling with oil lubrication. Control Engineering Practice, 2020, 103, 104584.	5.5	13
34	Frequency-adaptive cancellation of harmonic disturbances at non-measurable positions of steel strips. Mechatronics, 2020, 71, 102423.	3.3	7
35	Feedforward control of the transverse strip profile in hot-dip galvanizing lines. Journal of Process Control, 2020, 92, 35-49.	3.3	7
36	Model-based optimization of blade geometry in rolling-cut shearing to minimize common defects of the sheared edge. Journal of Manufacturing Processes, 2020, 52, 213-219.	5.9	2

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37	Steady-state and dynamic simulation of a grinding mill using grind curves. Minerals Engineering, 2020, 152, 106208.	4.3	9
38	A Magnetic Equivalent Circuit Based Modeling Framework for Electric Motors Applied to a PMSM With Winding Short Circuit. IEEE Transactions on Power Electronics, 2020, 35, 12285-12295.	7.9	27
39	Model-Based Fault Identification of Inter-Turn Winding Short Circuits in PMSM. , 2020, , .		2
40	Pfadfolgeregelung mit Konzepten für den Pfadfortschritt: Ein Assemblierungsszenario. Automatisierungstechnik, 2020, 68, 44-57.	0.8	0
41	Part Mass Estimation Strategy for Injection Molding Machines. IFAC-PapersOnLine, 2020, 53, 10366-10371.	0.9	1
42	Bifurcation suppression in regenerative amplifiers by active feedback methods. Optics Express, 2020, 28, 1722.	3.4	8
43	Model-Based Dynamic Calibration of a Multi-Actuator Gap Leveler for Heavy Plates. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2020, 142, .	2.2	2
44	Discrete-Time Repetitive Control for Multi-Harmonic Reference Trajectories with Arbitrary Frequency. IFAC-PapersOnLine, 2020, 53, 1646-1651.	0.9	2
45	Optimal control of plate motion and camber in a reversing rolling mill. IFAC-PapersOnLine, 2020, 53, 11962-11967.	0.9	2
46	On the global feedback stabilization of regenerative optical amplifiers. IFAC-PapersOnLine, 2020, 53, 5447-5452.	0.9	3
47	Fast motion planning for a laboratory 3D gantry crane in the presence of obstacles. IFAC-PapersOnLine, 2020, 53, 9508-9514.	0.9	3
48	Temperature Control for Induction Heating of Thin Strips. IFAC-PapersOnLine, 2020, 53, 11968-11973.	0.9	3
49	In-Line Estimation of the Magnetization Curve of Steel Strips in a Continuous Induction Furnace. IFAC-PapersOnLine, 2020, 53, 12062-12067.	0.9	2
50	Estimation of Quality Parameters of Trimmed Steel Plates using Laser Sensors. IFAC-PapersOnLine, 2020, 53, 11848-11853.	0.9	0
51	Increasing the Capacity for Automated Valet Parking Using Variable Spot Width. , 2020, , .		1
52	Model-based estimation of the stress-strain curve of metal strips. Mathematical and Computer Modelling of Dynamical Systems, 2019, 25, 224-241.	2.2	2
53	A dynamic model of power metal-oxide-semiconductor field-effect transistor half-bridges for the fast simulation of switching induced electromagnetic emissions. Mathematical and Computer Modelling of Dynamical Systems, 2019, 25, 242-260.	2.2	2
54	Nichtlineare modellprädiktive Regelung eines Abwärmerückgewinnungssystems für LKW-Dieselmotoren. Automatisierungstechnik, 2019, 67, 129-144.	0.8	0

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55	Online Parameter Estimation for Adaptive Feedforward Control of the Strip Thickness in a Hot Strip Rolling Mill. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2019, 141, 071005.	2.2	9
56	Nonlinear 3D path following control of a fixed-wing aircraft based on acceleration control. Control Engineering Practice, 2019, 86, 56-69.	5.5	16
57	Lateral Forces in Rolling-Cut Shearing and Their Consequences on Common Edge Defects. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2019, 141, .	2.2	3
58	Magnetic Equivalent Circuit Model of a Dual Three-Phase PMSM with Winding Short Circuit. , 2019, , .		3
59	Torque Control of a Hydrostatic Transmission Applied to a Wheel Loader. , 2019, , .		4
60	Optimal feedforward control of hydraulic drive systems with long pipelines. Proceedings in Applied Mathematics and Mechanics, 2019, 19, e201900195.	0.2	0
61	Slip Model Adaptation Based on Measurements of the Strip Velocity. IFAC-PapersOnLine, 2019, 52, 42-47.	0.9	5
62	Swing-Up of a Spherical Pendulum on a 7-Axis Industrial Robot. IFAC-PapersOnLine, 2019, 52, 346-351.	0.9	1
63	Improved EMD-based Oscillation Detection for Mechatronic Closed-Loop Systems. IFAC-PapersOnLine, 2019, 52, 370-375.	0.9	5
64	Non-Collocated Position Control of Steel Strip With Electromagnetic Rejection of Unknown Multi-Harmonic Disturbances. IFAC-PapersOnLine, 2019, 52, 430-435.	0.9	2
65	Collaborative Synchronization of a 7-Axis Robot. IFAC-PapersOnLine, 2019, 52, 507-512.	0.9	2
66	Time-optimal fold out of large-scale manipulators with obstacle avoidance. IFAC-PapersOnLine, 2019, 52, 114-119.	0.9	2
67	Dynamic Virtual Fixtures Based on Path Following Control. IFAC-PapersOnLine, 2019, 52, 424-429.	0.9	3
68	Optimal Current Slew Rate Control for a Three-Phase MOSFET Inverter Driving a PMSM. IFAC-PapersOnLine, 2019, 52, 85-90.	0.9	0
69	Reduced-Order Modeling of a Radiative Heating Process with Movable Radiators. IFAC-PapersOnLine, 2019, 52, 346-351.	0.9	2
70	A Nonlinear MPC Strategy for AC/DC-Converters tailored to the Implementation on FPGAs. IFAC-PapersOnLine, 2019, 52, 376-381.	0.9	6
71	Vision-based inspection and segmentation of trimmed steel edges. IFAC-PapersOnLine, 2019, 52, 165-170.	0.9	7
72	Cycleâ€based Adaption of a Modelâ€Predictive Control Strategy for Injection Molding Machines. Proceedings in Applied Mathematics and Mechanics, 2019, 19, e201900317.	0.2	1

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73	Asymmetric hydrodynamic roll gap model and its experimental validation. International Journal of Advanced Manufacturing Technology, 2019, 100, 3101-3111.	3.0	9
74	Hamilton's Principle for Material and Nonmaterial Control Volumes Using Lagrangian and Eulerian Description of Motion. Applied Mechanics Reviews, 2019, 71, .	10.1	10
75	Optimization-based feedforward control of the strip thickness profile in hot strip rolling. Journal of Process Control, 2018, 64, 100-111.	3.3	30
76	Early‑and late‑lumping observer designs for long hydraulic pipelines: Application to pumped‑storage power plants. International Journal of Robust and Nonlinear Control, 2018, 28, 2759-2779.	3.7	6
77	Control and estimation strategies for pneumatic drives with partial position information. Mechatronics, 2018, 50, 259-270.	3.3	8
78	Identifikation und Simulation optischer Verstärker für ultra-kurze Laserpulse. Automatisierungstechnik, 2018, 66, 66-78.	0.8	0
79	Hierarchical nonlinear optimization-based controller of a continuous strip annealing furnace. Control Engineering Practice, 2018, 73, 40-55.	5.5	21
80	Convex Constrained Iterative Learning Control Using Projection: Application to a Smart Power Switch. IEEE Transactions on Control Systems Technology, 2018, 26, 1818-1825.	5.2	12
81	Closed-loop stability analysis of a gantry crane with heavy chain and payload. International Journal of Control, 2018, 91, 1931-1943.	1.9	14
82	Feedback Control of the Contour Shape in Heavy-Plate Hot Rolling. IEEE Transactions on Control Systems Technology, 2018, 26, 842-856.	5.2	15
83	The spectral element method as an efficient tool for transient simulations of hydraulic systems. Applied Mathematical Modelling, 2018, 54, 627-647.	4.2	12
84	Magnetic actuator design for strip stabilizers in hot dip galvanizing lines. , 2018, , .		3
85	Active rejection control for unknown harmonic disturbances of the transverse deflection of steel strips with control input, system output, sensor output, and disturbance input at different positions. Mechatronics, 2018, 56, 73-86.	3.3	16
86	A robust real-time model for plate leveling. IFAC-PapersOnLine, 2018, 51, 61-66.	0.9	5
87	Scheduling of a Flexible Job Shop with Multiple Constraints. IFAC-PapersOnLine, 2018, 51, 1293-1298.	0.9	4
88	Model Averaging and Feedforward Temperature Control in an Oscillating Annealing Furnace. IFAC-PapersOnLine, 2018, 51, 163-168.	0.9	3
89	Optimal Parameter Identification for a Hydrodynamic Roll Gap Model in Hot Strip Rolling. IFAC-PapersOnLine, 2018, 51, 195-200.	0.9	6
90	Flatness-based nonlinear control of a three-dimensional gantry crane. IFAC-PapersOnLine, 2018, 51, 331-336.	0.9	8

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91	Computationally Efficient 3D Mathematical Model of a Molybdenum Batch Reheating Furnace â˘ â˘This research work has been performed in the EU project Power Semiconductor and Electronics Manufacturing 4.0 (SemI40), which is funded by the programme Electronic Component Systems for European Leadership (ECSEL) Joint Undertaking (grant agreement no. 692466) and the programme â€œIKT der Zukunftâ€(project no. 853343) of the Austrian Ministry for Transport, Innovation and Technology (bmvit) between May 2016 and April. IFAC-PapersOnLine, 2018, 51, 819-824.	0.9	2
92	Modeling and iterative pulse-shape control of optical chirped pulse amplifiers. Automatica, 2018, 98, 150-158.	5.0	6
93	Model predictive control of an automotive waste heat recovery system. Control Engineering Practice, 2018, 81, 28-42.	5.5	21
94	Mathematical Model and Stability Analysis of the Lateral Plate Motion in a Reversing Rolling Mill Stand. IFAC-PapersOnLine, 2018, 51, 73-78.	0.9	9
95	Control-oriented modeling of servo-pump driven injection molding machines in the filling and packing phase. Mathematical and Computer Modelling of Dynamical Systems, 2018, 24, 451-474.	2.2	10
96	A Path/Surface Following Control Approach to Generate Virtual Fixtures. IEEE Transactions on Robotics, 2018, 34, 1577-1592.	10.3	13
97	State estimation and advanced control of the 2D temperature field in an experimental oscillating annealing device. Control Engineering Practice, 2018, 78, 116-128.	5.5	5
98	Patching process optimization in an agent-controlled timber mill. Journal of Intelligent Manufacturing, 2017, 28, 69-84.	7.3	2
99	Automatic Gauge Control under Laterally Asymmetric Rolling Conditions Combined with Feedforward. IEEE Transactions on Industry Applications, 2017, 53, 2560-2568.	4.9	21
100	An EKF observer to estimate semi-autogenous grinding mill hold-ups. Journal of Process Control, 2017, 51, 27-41.	3.3	20
101	Nonlinear Model Predictive Control of Axial Piston Pumps. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2017, 139, .	1.6	12
102	Nonlinear Observer for Temperatures and Emissivities in a Strip Annealing Furnace. IEEE Transactions on Industry Applications, 2017, 53, 2578-2586.	4.9	9
103	Modeling and static optimization of a variable speed pumped storage power plant. Renewable Energy, 2017, 111, 38-51.	8.9	51
104	Force-based cooperative handling and lay-up of deformable materials: Mechatronic design, modeling, and control of a demonstrator. Mechatronics, 2017, 47, 246-261.	3.3	16
105	Combined Path Following and Compliance Control for Fully Actuated Rigid Body Systems in 3-D Space. IEEE Transactions on Control Systems Technology, 2017, 25, 1750-1760.	5.2	18
106	Modeling and optimal steady-state operating points of an ORC waste heat recovery system for diesel engines. Applied Energy, 2017, 206, 329-345.	10.1	33
107	Attitude control strategy for a camera stabilization platform. Mechatronics, 2017, 46, 60-69.	3.3	12
108	Dynamical Models of the Camber and the Lateral Position in Flat Rolling. Applied Mechanics Reviews, 2017, 69, .	10.1	6

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109	Nichtlineares Bewegungsmodell für ein Stahlband in einer Oberflächenbeschichtungsanlage. Automatisierungstechnik, 2017, 65, 546-560.	0.8	2
110	Modellordnungsreduktion, Beobachterentwurf und Sensorplatzierung für einen Infrarot-Glühofen. Automatisierungstechnik, 2017, 65, 337-349.	0.8	1
111	Elasto-plastic bending of steel strip in a hot-dip galvanizing line. Acta Mechanica, 2017, 228, 2455-2470.	2.1	8
112	Two-dimensional thermal modelling with specular reflections in an experimental annealing furnace. Mathematical and Computer Modelling of Dynamical Systems, 2017, 23, 23-39.	2.2	7
113	Efficient Generation of Fast Trajectories for Gantry Cranes with Constraints. IFAC-PapersOnLine, 2017, 50, 1937-1943.	0.9	4
114	Deflection Model of A Multi-Actuator Gap Leveler. IFAC-PapersOnLine, 2017, 50, 11295-11300.	0.9	4
115	Feedforward control of lateral asymmetries in heavy-plate hot rolling using vision-based position estimation. IFAC-PapersOnLine, 2017, 50, 11307-11312.	0.9	4
116	Control of Curvature and Contact Force of a Metal Strip at the Strip-Roll Contact Point. IFAC-PapersOnLine, 2017, 50, 11325-11330.	0.9	4
117	An Efficient Algorithm for Scheduling a Flexible Job Shop with Blocking and No-Wait Constraints * *Great thanks are addressed to the industrial research partner Plansee SE supporting this work. Moreover, financial support from the EU project Power Semiconductor and Electronics Manufacturing 4.0 (SemI40), under grant agreement No 692466, is gratefully acknowledged. The project is co-funded by grants from Austria, Germany, Italy, France, Portugal, and - Electronic	0.9	11
118	Feedforward Control of the Temperature Field in an Experimental Annealing Furnace 1 1The financial support by the Austrian Federal Ministry of Science, Research and Economy, the National Foundation for Research, Technology and Development, and voestalpine Stahl GmbH is gratefully acknowledged.. IFAC-PapersOnLine, 2017, 50, 13790-13795.	0.9	2
119	Modeling and Control of the Oxygen Concentration in a Post Combustion Chamber of a Gas-Fired Furnace * *The authors kindly express their gratitude to the industrial research partner voestalpine Stahl GmbH.. IFAC-PapersOnLine, 2017, 50, 13766-13771.	0.9	0
120	Model-Based Signal Processing for the Force Control of Biaxial Gantry Robots * *This work was supported by Festo AG & Co. KG. IFAC-PapersOnLine, 2017, 50, 3208-3214.	0.9	2
121	Energy-efficient Constrained Control of a Hydrostatic Power Split Drive. IFAC-PapersOnLine, 2017, 50, 4775-4780.	0.9	5
122	Path Following Control for Elastic Joint Robots * *This research was partially supported by the Austrian Research Promotion Agency (FFG), grant number: 850952. IFAC-PapersOnLine, 2017, 50, 4806-4811.	0.9	4
123	Optimal torque control of PMSMs with redundant stator coils in case of open circuit faults. , 2017, , .		0
124	Modeling and Force Control for the Collaborative Manipulation of Deformable Strip-Like Materials. IFAC-PapersOnLine, 2016, 49, 95-102.	0.9	12
125	Nonlinear observability of grinding mill conditions. IFAC-PapersOnLine, 2016, 49, 13-18.	0.9	0
126	Vision-Based Material Tracking in Heavy-Plate Rolling. IFAC-PapersOnLine, 2016, 49, 108-113.	0.9	4

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127	Dynamical Model of Axially Moving Steel Strips**Financial support by the Austrian Federal Ministry of Science, Research and Economy and the National Foundation for Research, Technology and Development, and voestalpine Stahl GmbH is gratefully acknowledged.. IFAC-PapersOnLine, 2016, 49, 190-195.	0.9	4
128	A Mathematical Model of a Horizontal Direct-Fired Strip Annealing Furnace. IFAC-PapersOnLine, 2016, 49, 202-207.	0.9	0
129	Combustion processes inside a direct-fired continuous strip annealing furnace. IFAC-PapersOnLine, 2016, 49, 208-213.	0.9	4
130	Optimal Steady-State Temperature Field in an Experimental Annealing Furnace. IFAC-PapersOnLine, 2016, 49, 214-219.	0.9	3
131	Surface Following Control for Fully Actuated Rigid Body Systems in Three-Dimensional Euclidean Space. IFAC-PapersOnLine, 2016, 49, 594-599.	0.9	1
132	Model Predictive Speed Control of Axial Piston Motors**The authors from Vienna University of Technology highly appreciate the technical and financial support provided by Robert Bosch GmbH.. IFAC-PapersOnLine, 2016, 49, 772-777.	0.9	3
133	Analysis and system optimization of a very low frequency high-voltage test system. IFAC-PapersOnLine, 2016, 49, 294-300.	0.9	0
134	Evaluation of Efficiently Generating Fast Robot Trajectories Under Geometric and System Constraints**The authors are grateful to STIWA Automation GmbH for financial and technical support.. IFAC-PapersOnLine, 2016, 49, 395-402.	0.9	0
135	Soft Landing and Disturbance Rejection for Pneumatic Drives with Partial Position Information**The authors thank Festo AG & Co. KG for funding this project.. IFAC-PapersOnLine, 2016, 49, 559-566.	0.9	5
136	Estimation and control of the tool center point of a mobile concrete pump. Automation in Construction, 2016, 61, 112-123.	9.8	5
137	Mathematical modelling of a hydraulic accumulator for hydraulic hybrid drives. Mathematical and Computer Modelling of Dynamical Systems, 2016, 22, 397-411.	2.2	16
138	Simulation von Welleneffekten in Pumpspeicherkraftwerken mit Hilfe der Spektral-Element-Methode. Automatisierungstechnik, 2016, 64, 681-695.	0.8	4
139	Constrained model predictive manifold stabilization based on transverse normal forms. Automatica, 2016, 74, 315-326.	5.0	8
140	Optimization-based reduction of contour errors of heavy plates in hot rolling. Journal of Process Control, 2016, 47, 150-160.	3.3	13
141	A Numerical Implementation of an Extended Luenberger Observer for a Class of Semilinear Hyperbolic PIDEs. IFAC-PapersOnLine, 2016, 49, 216-221.	0.9	0
142	Nonlinear observer for temperatures and emissivities in a strip annealing furnace. , 2016, , .		6
143	Real-Time Nonlinear Model Predictive Control of a Transportâ€"Reaction System. Industrial & Engineering Chemistry Research, 2016, 55, 7730-7741.	3.7	6
144	Experimental Parameterization of a Design Model for Flatness-based Torque Control of a Saturated Surface-Mounted PMSM**This work was supported by Bernecker and Rainer Industrie Elektronik GmbH.. IFAC-PapersOnLine, 2016, 49, 575-582.	0.9	2

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145	Nonlinear model predictive control of the strip temperature in an annealing furnace. Journal of Process Control, 2016, 48, 1-13.	3.3	20
146	Notice of Removal Optimization of a very low frequency (VLF) high-voltage cable test system. , 2016, , .		0
147	Automatic gauge control under laterally asymmetric rolling conditions combined with feedforward. , 2016, , .		3
148	Infinite-dimensional decentralized damping control of large-scale manipulators with hydraulic actuation. Automatica, 2016, 63, 101-115.	5.0	34
149	Backstepping-based boundary observer for a class of time-varying linear hyperbolic PIDEs. Automatica, 2016, 68, 369-377.	5.0	29
150	Stability of an Euler-Bernoulli Beam With a Nonlinear Dynamic Feedback System. IEEE Transactions on Automatic Control, 2016, 61, 2782-2795.	5.7	23
151	Modeling of the Media Supply of Gas Burners of an Industrial Furnace. IEEE Transactions on Industry Applications, 2016, 52, 2664-2672.	4.9	4
152	Attitude Estimation Using Redundant Inertial Measurement Units for the Control of a Camera Stabilization Platform. IEEE Transactions on Control Systems Technology, 2016, 24, 1837-1844.	5.2	22
153	Optimisation based path planning for car parking in narrow environments. Robotics and Autonomous Systems, 2016, 79, 1-11.	5.1	53
154	Flatness-Based Torque Control of Saturated Surface-Mounted Permanent Magnet Synchronous Machines. IEEE Transactions on Control Systems Technology, 2016, 24, 1201-1213.	5.2	10
155	Dynamical Models of Axially Moving Rods with Tensile and Bending Stiffness. IFAC-PapersOnLine, 2015, 48, 598-603.	0.9	9
156	Heat Transfer with Specular Reflections in an Experimental Annealing Device. IFAC-PapersOnLine, 2015, 48, 494-499.	0.9	1
157	Two Illustrative Examples to Show the Potential of Thermography for Process Monitoring and Control in Hot Rolling. IFAC-PapersOnLine, 2015, 48, 48-53.	0.9	2
158	Influence of Air Cooling Jets on the Steady-State Shape of Strips in Hot Dip Galvanizing Linesâˆ'âˆ'The financial support by the Austrian Federal Ministry of Science, Research and Economy and the National Foundation for Research, Technology and Development is gratefully acknowledged. The second author gratefully acknowledges financial support provided by the Austrian Academy of Sciences in the form of an APART-fellowship at the Automation and Control Institute of Vienna University of Technology.. IFAC-PapersOnLine, 2015, 48, 143-148.	0.9	5
159	Steering Control of Metal Strips Using a Pivoted Guide Roller. IFAC-PapersOnLine, 2015, 48, 137-142.	0.9	0
160	Modeling of the media-supply of gas burners of an industrial furnace. , 2015, , .		1
161	Modellierung des Umschlingungswinkels eines auf Rollen geführten Metallbandes. Automatisierungstechnik, 2015, 63, 646-655.	0.8	2
162	Time-optimal trajectory generation, path planning and control for a wood patching robot. , 2015, , .		0

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163	Field weakening in flatness-based torque control of saturated surface-mounted permanent magnet synchronous machines. , 2015, , .		3
164	Modelling, simulation and identification of a mobile concrete pump. Mathematical and Computer Modelling of Dynamical Systems, 2015, 21, 180-201.	2.2	11
165	Digital Slew Rate and S-Shape Control for Smart Power Switches to Reduce EMI Generation. IEEE Transactions on Power Electronics, 2015, 30, 5170-5180.	7.9	53
166	State of Charge Estimator Design for a Gas Charged Hydraulic Accumulator. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2015, 137, .	1.6	6
167	Controller design and experimental validation of a very low frequency high-voltage test system. Control Engineering Practice, 2015, 37, 32-42.	5.5	2
168	Mathematical modeling of the contour evolution of heavy plates in hot rolling. Applied Mathematical Modelling, 2015, 39, 4534-4547.	4.2	22
169	Magnetic Equivalent Circuit Modeling of a Saturated Surface-Mounted Permanent Magnet Synchronous Machine. IFAC-PapersOnLine, 2015, 48, 360-365.	0.9	15
170	Mathematical Modeling and Analysis of a Hydrostatic Drive Train. IFAC-PapersOnLine, 2015, 48, 508-513.	0.9	6
171	Optimization-based estimator for the contour and movement of heavy plates in hot rolling. Journal of Process Control, 2015, 29, 23-32.	3.3	18
172	Modelling and experimental validation of the deflection of a leveller for hot heavy plates. Mathematical and Computer Modelling of Dynamical Systems, 2015, 21, 202-227.	2.2	8
173	Mathematical modelling of a diesel common-rail system. Mathematical and Computer Modelling of Dynamical Systems, 2015, 21, 311-335.	2.2	9
174	An optimisation-based path planner for truck-trailer systems with driving direction changes. , 2015, , .		7
175	Optimale nichtlineare Regelung von permanenterregten Synchronmaschinen. Automatisierungstechnik, 2015, 63, 739-750.	0.8	0
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