

A Galip Ulsoy

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2781655/publications.pdf>

Version: 2024-02-01

242
papers

8,011
citations

66343

42
h-index

62596

80
g-index

249
all docs

249
docs citations

249
times ranked

3511
citing authors

#	ARTICLE	IF	CITATIONS
1	Reconfigurable Manufacturing Systems. CIRP Annals - Manufacturing Technology, 1999, 48, 527-540.	3.6	1,532
2	Reconfigurable manufacturing systems: Key to future manufacturing. Journal of Intelligent Manufacturing, 2000, 11, 403-419.	7.3	726
3	Trends and perspectives in flexible and reconfigurable manufacturing systems. Journal of Intelligent Manufacturing, 2002, 13, 135-146.	7.3	265
4	Analysis of a System of Linear Delay Differential Equations. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2003, 125, 215-223.	1.6	234
5	Transverse Vibration of an Axially Accelerating String. Journal of Sound and Vibration, 1994, 169, 179-196.	3.9	166
6	On the coupling between the plant and controller optimization problems. , 2001, , .		154
7	Identification of driver state for lane-keeping tasks. IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans, 1999, 29, 486-502.	2.9	135
8	Principal Developments in the Adaptive Control of Machine Tools. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 1983, 105, 107-112.	1.6	133
9	The dynamic response of a rotating shaft subject to a moving load. Journal of Sound and Vibration, 1988, 122, 131-148.	3.9	117
10	Flexural motion of a radially rotating beam attached to a rigid body. Journal of Sound and Vibration, 1988, 121, 201-210.	3.9	115
11	Model Reference Adaptive Force Control in Milling. Journal of Engineering for Industry, 1989, 111, 13-21.	0.8	110
12	Control of Machining Processes. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 1993, 115, 301-308.	1.6	102
13	An Approach to Control Input Shaping With Application to Coordinate Measuring Machines. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 1999, 121, 242-247.	1.6	100
14	Vibration of Wide Band Saw Blades. Journal of Engineering for Industry, 1982, 104, 71-78.	0.8	95
15	Control of a Flexible Robot Arm: Experimental and Theoretical Results. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 1987, 109, 299-309.	1.6	90
16	Vehicle dynamics and external disturbance estimation for vehicle path prediction. IEEE Transactions on Control Systems Technology, 2000, 8, 508-518.	5.2	88
17	Principal developments in band saw vibration and stability research. European Journal of Wood and Wood Products, 1978, 36, 273-280.	2.9	85
18	Modal analysis of a distributed parameter rotating shaft. Journal of Sound and Vibration, 1988, 122, 119-130.	3.9	84

#	ARTICLE	IF	CITATIONS
19	Dynamics of a Radially Rotating Beam With Impact, Part 1: Theoretical and Computational Model. Journal of Vibration and Acoustics, Transactions of the ASME, 1990, 112, 65-70.	1.6	83
20	CAPC: A Road-Departure Prevention System. IEEE Control Systems, 1996, 16, 61-71.	0.8	77
21	Adaptive Sinusoidal Disturbance Rejection in Linear Discrete-Time Systemsâ€™Part I: Theory. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 1999, 121, 648-654.	1.6	76
22	Delay differential equations via the matrix lambert w function and bifurcation analysis: application to machine tool chatter. Mathematical Biosciences and Engineering, 2007, 4, 355-368.	1.9	74
23	Design of Belt-Tensioner Systems for Dynamic Stability. Journal of Vibration and Acoustics, Transactions of the ASME, 1985, 107, 282-290.	1.6	72
24	Combined Robust Design and Robust Control of an Electric DC Motor. IEEE/ASME Transactions on Mechatronics, 2011, 16, 574-582.	5.8	71
25	Stability and Limit Cycles of Parametrically Excited, Axially Moving Strings. Journal of Vibration and Acoustics, Transactions of the ASME, 1996, 118, 346-351.	1.6	64
26	Adaptive Sinusoidal Disturbance Rejection in Linear Discrete-Time Systemsâ€™Part II: Experiments. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 1999, 121, 655-659.	1.6	64
27	Controllability and Observability of Systems of Linear Delay Differential Equations Via the Matrix Lambert W Function. IEEE Transactions on Automatic Control, 2008, 53, 854-860.	5.7	64
28	Dynamics of the arch-type reconfigurable machine tool. International Journal of Machine Tools and Manufacture, 2007, 47, 326-334.	13.4	63
29	Optimizing modular product design for reconfigurable manufacturing. Journal of Intelligent Manufacturing, 2002, 13, 309-316.	7.3	62
30	Real-Time Open Control Architectures and System Performance. CIRP Annals - Manufacturing Technology, 1996, 45, 377-380.	3.6	60
31	Design of observer-based feedback control for time-delay systems with application to automotive powertrain control. Journal of the Franklin Institute, 2010, 347, 358-376.	3.4	60
32	A Dynamic State Model for On-Line Tool Wear Estimation in Turning. Journal of Engineering for Industry, 1987, 109, 396-399.	0.8	59
33	Identification of a Driver Steering Model, and Model Uncertainty, From Driving Simulator Data. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2001, 123, 623-629.	1.6	58
34	Dynamic Simulation of a Leadscrew Driven Flexible Robot Arm and Controller. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 1986, 108, 119-126.	1.6	54
35	Spring-dashpot models for the dynamics of a radially rotating beam with impact. Journal of Sound and Vibration, 1990, 142, 515-525.	3.9	54
36	HIGH-PRECISION MEASUREMENT OF TOOL-TIP DISPLACEMENT USING STRAIN GAUGES IN PRECISION FLEXIBLE LINE BORING. Mechanical Systems and Signal Processing, 1999, 13, 531-546.	8.0	53

#	ARTICLE	IF	CITATIONS
37	A comparison of model-based machining force control approaches. International Journal of Machine Tools and Manufacture, 2004, 44, 733-748.	13.4	52
38	Eigenvalue Assignment via the Lambert W Function for Control of Time-delay Systems. JVC/Journal of Vibration and Control, 2010, 16, 961-982.	2.6	52
39	Dynamic Stability and Response of a Beam Subject to a Deflection Dependent Moving Load. Journal of Vibration and Acoustics, Transactions of the ASME, 1987, 109, 361-365.	1.6	47
40	Dynamics of a Radially Rotating Beam With Impact, Part 2: Experimental and Simulation Results. Journal of Vibration and Acoustics, Transactions of the ASME, 1990, 112, 71-77.	1.6	47
41	Dynamic stiffness evaluation for reconfigurable machine tools including weakly non-linear joint characteristics. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2002, 216, 87-101.	2.4	47
42	Vibration Control in Rotating or Translating Elastic Systems. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 1984, 106, 6-14.	1.6	46
43	Consistent Modeling of Rotating Timoshenko Shafts Subject to Axial Loads. Journal of Vibration and Acoustics, Transactions of the ASME, 1992, 114, 249-259.	1.6	45
44	Dynamic Modeling for Control of the Milling Process. Journal of Engineering for Industry, 1988, 110, 367-375.	0.8	44
45	Development of process control in sheet metal forming. Journal of Materials Processing Technology, 2002, 127, 361-368.	6.3	43
46	Flank Wear Estimation Under Varying Cutting Conditions. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 1991, 113, 300-307.	1.6	42
47	Dynamic Contour Error Estimation and Feedback Modification for High-Precision Contouring. IEEE/ASME Transactions on Mechatronics, 2016, 21, 1732-1741.	5.8	42
48	COMPLEX GEOMETRY, ROTARY INERTIA AND GYROSCOPIC MOMENT EFFECTS ON DRILL VIBRATIONS. Journal of Sound and Vibration, 1995, 188, 701-715.	3.9	41
49	Model-Based Machining Force Control. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2000, 122, 521-527.	1.6	40
50	Effect of a Nonlinear Joint on the Dynamic Performance of a Machine Tool. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2007, 129, 943-950.	2.2	39
51	Effects of Geometric and Process Parameters on Drill Transverse Vibrations. Journal of Engineering for Industry, 1990, 112, 189-194.	0.8	38
52	Strategic issues in sensors and smart structures. Structural Control and Health Monitoring, 2006, 13, 946-957.	4.0	36
53	Robust Machining Force Control With Process Compensation. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2003, 125, 423-430.	2.2	35
54	Vibration localization in dual-span, axially moving beams. Journal of Sound and Vibration, 1995, 179, 243-266.	3.9	33

#	ARTICLE	IF	CITATIONS
55	Mission Energy Prediction for Unmanned Ground Vehicles Using Real-time Measurements and Prior Knowledge. <i>Journal of Field Robotics</i> , 2013, 30, 399-414.	6.0	33
56	Proportional-Integral Control of First-Order Time-Delay Systems via Eigenvalue Assignment. <i>IEEE Transactions on Control Systems Technology</i> , 2013, 21, 1586-1594.	5.2	32
57	On-Line Flank Wear Estimation Using an Adaptive Observer and Computer Vision, Part 1: Theory. <i>Journal of Engineering for Industry</i> , 1993, 115, 30-36.	0.8	31
58	Control Proxy Functions for Sequential Design and Control Optimization. <i>Journal of Mechanical Design, Transactions of the ASME</i> , 2011, 133, .	2.9	31
59	An adaptive observer for on-line tool wear estimation in turning, Part I: Theory. <i>Mechanical Systems and Signal Processing</i> , 1987, 1, 211-225.	8.0	29
60	Stochastic Optimal Capacity Management in Reconfigurable Manufacturing Systems. <i>CIRP Annals - Manufacturing Technology</i> , 2003, 52, 371-374.	3.6	28
61	Experimental Identification of the Nonlinear Parameters of an Industrial Translational Guide for Machine Performance Evaluation. <i>JVC/Journal of Vibration and Control</i> , 2008, 14, 645-668.	2.6	28
62	Sequential co-design of an artifact and its controller via control proxy functions. <i>Mechatronics</i> , 2013, 23, 409-418.	3.3	28
63	Decay function estimation for linear time delay systems via the Lambert W function. <i>JVC/Journal of Vibration and Control</i> , 2012, 18, 1462-1473.	2.6	27
64	Torque-Vectoring-Based Backup Steering Strategy for Steer-by-Wire Autonomous Vehicles With Vehicle Stability Control. <i>IEEE Transactions on Vehicular Technology</i> , 2019, 68, 7319-7328.	6.3	26
65	Challenges and opportunities in the engineering of intelligent systems. <i>Smart Structures and Systems</i> , 2005, 1, 1-12.	1.9	25
66	On-Line Flank Wear Estimation Using an Adaptive Observer and Computer Vision, Part 2: Experiment. <i>Journal of Engineering for Industry</i> , 1993, 115, 37-43.	0.8	24
67	Effects of Drill Vibrations on Cutting Forces and Torque. <i>CIRP Annals - Manufacturing Technology</i> , 1994, 43, 59-62.	3.6	24
68	The Effect of Flexible-Tool Rotation on Regenerative Instability in Machining. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2003, 125, 39-47.	2.2	24
69	Fuzzy-logic-based virtual rumble strip for road departure warning systems. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2003, 4, 1-12.	8.0	23
70	Integrated Plant, Observer, and Controller Optimization With Application to Combined Passive/Active Automotive Suspensions. , 2003, , 225.		23
71	Solution of Systems of Linear Delay Differential Equations via Laplace Transformation. , 2006, , .		23
72	On Measures of Coupling Between the Artifact and Controller Optimal Design Problems. , 2009, , .		23

#	ARTICLE	IF	CITATIONS
73	Time-Delayed Control of SISO Systems for Improved Stability Margins. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2015, 137, .	1.6	23
74	Dynamic Modeling and Simulation of Flexible Robots With Prismatic Joints. Journal of Mechanical Design, Transactions of the ASME, 1990, 112, 307-314.	2.9	22
75	Tracking Control of Linear Time-Invariant Nonminimum Phase Systems Using Filtered Basis Functions. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2017, 139, .	1.6	21
76	Control input shaping for coordinate measuring machines. , 0, , .		20
77	Improving Component-Swapping Modularity Using Bidirectional Communication in Networked Control Systems. IEEE/ASME Transactions on Mechatronics, 2009, 14, 307-316.	5.8	20
78	Comparison of Combined Embodiment Design and Control Optimization Strategies Using Optimality Conditions. , 2001, , .		20
79	TIME TO LANE CROSSING CALCULATION AND CHARACTERIZATION OF ITS ASSOCIATED UNCERTAINTY. Journal of Intelligent Transportation Systems, 1996, 3, 85-98.	0.1	19
80	Capacity Management in Reconfigurable Manufacturing Systems With Stochastic Market Demand. , 2002, , 567.		19
81	Nonlinear Feed Effect in Machining Chatter Analysis. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2008, 130, .	2.2	19
82	Auto-tuning and adaptive control of sheet metal forming. Control Engineering Practice, 2012, 20, 156-164.	5.5	19
83	Quantification and Use of System Coupling in Decomposed Design Optimization Problems. , 2005, , 95.		18
84	Process Control for Sheet-Metal Stamping. Advances in Industrial Control, 2014, , .	0.5	18
85	An adaptive observer for on-line tool wear estimation in turning, Part II: Results. Mechanical Systems and Signal Processing, 1987, 1, 227-240.	8.0	17
86	Vibration localization in dual-span, axially moving beams. Journal of Sound and Vibration, 1995, 179, 267-287.	3.9	17
87	Supervisory Control of Drilling. Journal of Engineering for Industry, 1996, 118, 10-19.	0.8	17
88	Supervisory Machining Control: Design Approach and Experiments. CIRP Annals - Manufacturing Technology, 1998, 47, 301-306.	3.6	17
89	Robust Control and Time-Domain Specifications for Systems of Delay Differential Equations via Eigenvalue Assignment. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2010, 132, .	1.6	17
90	Mission energy prediction for unmanned ground vehicles. , 2012, , .		17

#	ARTICLE	IF	CITATIONS
91	The Lambert W Function Approach to Time Delay Systems and the LambertW_DDE Toolbox. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 114-119.	0.4	17
92	On-Line Tool Wear Estimation Using Force Measurement and a Nonlinear Observer. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 1992, 114, 666-672.	1.6	16
93	Vibration localization in band-wheel systems:. Journal of Sound and Vibration, 1995, 179, 289-312.	3.9	15
94	Velocity Occupancy Space: Robot Navigation and Moving Obstacle Avoidance With Sensor Uncertainty. , 2009, , .		15
95	Coupling Between Spans in the Vibration of Axially Moving Materials. Journal of Vibration and Acoustics, Transactions of the ASME, 1986, 108, 207-212.	1.6	14
96	Identification of machining force model parameters from acceleration measurements. International Journal of Manufacturing Research, 2008, 3, 265.	0.2	14
97	Coupling Between the Modeling and Controller-Design Problemsâ€™Part I: Analysis. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 1997, 119, 498-502.	1.6	13
98	An Input-Output Criterion for Linear Model Deduction. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2000, 122, 507-513.	1.6	13
99	Multi-Input Multi-Output (MIMO) Modeling and Control for Stamping. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2010, 132, .	1.6	13
100	Combined design and robust control of a vehicle passive/active suspension. International Journal of Vehicle Design, 2012, 59, 315.	0.3	13
101	A Maneuver Based Design of a Passive-Assist Device for Augmenting Active Joints. Journal of Mechanisms and Robotics, 2013, 5, .	2.2	13
102	Adaptive band-limited disturbance rejection in linear discrete-time systems. Mathematical Problems in Engineering, 1995, 1, 139-177.	1.1	12
103	Feed, Speed, and Torque Controllers for Drilling. Journal of Engineering for Industry, 1996, 118, 2-9.	0.8	12
104	Experimental evaluation of a vehicle steering assist controller using a driving simulator. Vehicle System Dynamics, 2006, 44, 223-245.	3.7	12
105	Analysis and Control of Time Delayed Systems via the Lambert W Function. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 13414-13419.	0.4	12
106	Swappable Distributed MIMO Controller for a VCT Engine. IEEE Transactions on Control Systems Technology, 2011, 19, 1168-1177.	5.2	12
107	An improved LMI-based approach for stability of piecewise affine time-delay systems with uncertainty. International Journal of Control, 2012, 85, 1218-1234.	1.9	12
108	Dynamic Modeling of Transverse Drill Bit Vibrations. CIRP Annals - Manufacturing Technology, 1984, 33, 253-258.	3.6	11

#	ARTICLE	IF	CITATIONS
109	Identification of a nonlinear driver model via NARMAX modeling. , 2000, , .		11
110	Programming Optimal Suggestions in the Design Concept Phase: Application to the Boothroyd Assembly Charts. Journal of Mechanisms, Transmissions, and Automation in Design, 1985, 107, 285-291.	0.2	10
111	Frequency versus time domain parameter estimation: Application to a slot milling operation. Mechanical Systems and Signal Processing, 1988, 2, 265-277.	8.0	10
112	Decision making for road departure warning systems. , 1998, , .		10
113	Analysis and Control of Time Delay Systems Using the LambertWDDE Toolbox. Advances in Delays and Dynamics, 2014, , 271-284.	0.4	10
114	On this issue. Mechanical Systems and Signal Processing, 1988, 2, 211.	8.0	9
115	Error Source Diagnostics Using a Turning Process Simulator. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 1998, 120, 409-416.	2.2	9
116	DYNAMICS OF PRESTRESSED ROTATING ANISOTROPIC PLATES SUBJECT TO TRANSVERSE LOADS AND HEAT SOURCES, PART I: MODELLING AND SOLUTION METHOD. Journal of Sound and Vibration, 2000, 236, 457-485.	3.9	9
117	Analytical solution of a system of homogeneous delay differential equations via the Lambert function. , 2000, , .		9
118	Design of a vehicle steering assist controller using driver model uncertainty. International Journal of Vehicle Autonomous Systems, 2002, 1, 111.	0.2	9
119	Co-Design of a MEMS Actuator and Its Controller Using Frequency Constraints. , 2008, , .		9
120	Distributed Supervisory Controller Design for Battery Swapping Modularity in Plug-In Hybrid Electric Vehicles. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2012, 134, .	1.6	9
121	DC Motor Control Using the Lambert W Function Approach. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 49-54.	0.4	9
122	Direct Optimal Design for Component Swapping Modularity in Control Systems. IEEE/ASME Transactions on Mechatronics, 2013, 18, 297-306.	5.8	9
123	Spectrum design using distributed delay. International Journal of Dynamics and Control, 2014, 2, 234-246.	2.5	9
124	Feedback Control Via Eigenvalue Assignment for Time Delayed Systems Using the Lambert W Function. , 2007, , .		9
125	An Optimization Strategy for Maximizing Coordinate Measuring Machine Productivity, Part 1: Quantifying the Effects of Operating Speed on Measurement Quality. Journal of Engineering for Industry, 1995, 117, 601-609.	0.8	8
126	Target Management in Complex System Design Using System Norms. Journal of Mechanical Design, Transactions of the ASME, 2005, 127, 536-544.	2.9	8

#	ARTICLE	IF	CITATIONS
127	Combined design and robust control of a vehicle passive/active suspension. , 2007, , .		8
128	Nested Optimization of an Elevator and Its Gain-Scheduled LQG Controller. , 2002, , .		8
129	Coupling in design and robust control optimization. , 2007, , .		8
130	Experimental Model Validation for a Flexible Robot With a Prismatic Joint. Journal of Mechanical Design, Transactions of the ASME, 1990, 112, 315-323.	2.9	7
131	Feed, Speed, and Torque Controllers for Drilling. , 1993, , .		7
132	Modular discrete optimal MIMO controller for a VCT Engine. , 2009, , .		7
133	A passive-assist design approach for improved reliability and efficiency of robot arms. , 2011, , .		7
134	A New Breed of Robots that Drive Themselves. Mechanical Engineering, 2011, 133, 28-33.	0.1	7
135	Generalized Coupling Management in Complex Engineering Systems Optimization. Journal of Mechanical Design, Transactions of the ASME, 2011, 133, .	2.9	7
136	Dynamic Modeling of the Thrust Force and Torque for Drilling. , 1992, , .		6
137	Combined Robust Design and Robust Control of an Electric DC Motor. , 2006, , 989.		6
138	Eigenvalues and Sensitivity Analysis for a Model of HIV-1 Pathogenesis With an Intracellular Delay. , 2008, , .		6
139	Throttle actuator swapping modularity design for idle speed control. , 2009, , .		6
140	Improved part quality in stamping using Multi-Input Multi-Output (MIMO) process control. , 2009, , .		6
141	PI control of first order time-delay systems via eigenvalue assignment. , 2011, , .		6
142	Velocity occupancy space: autonomous navigation in an uncertain, dynamic environment. International Journal of Vehicle Autonomous Systems, 2012, 10, 41.	0.2	6
143	Relationship between coupling and the controllability Gramian in co-design problems. Mechatronics, 2015, 29, 36-45.	3.3	6
144	Optimal Selection of Basis Functions for Minimum-Effort Tracking Control of Nonminimum Phase Systems Using Filtered Basis Functions. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2019, 141, .	1.6	6

#	ARTICLE	IF	CITATIONS
145	Adaptive Control. , 1989, , 618-626.		6
146	Monitoring and Control of Machining. Springer Series in Advanced Manufacturing, 2006, , 1-32.	0.5	6
147	An Optimization Strategy for Maximizing Coordinate Measuring Machine Productivity, Part 2: Problem Formulation, Solution, and Experimental Results. Journal of Engineering for Industry, 1995, 117, 610-618.	0.8	5
148	Coupling Between the Modeling and Controller-Design Problemsâ€™Part II: Design. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 1997, 119, 278-283.	1.6	5
149	DYNAMICS OF PRESTRESSED ROTATING ANISOTROPIC PLATES SUBJECT TO TRANSVERSE LOADS AND HEAT SOURCES, PART II: APPLICATION TO A SPECIALLY ORTHOTROPIC DISK. Journal of Sound and Vibration, 2000, 236, 487-504.	3.9	5
150	Experimental Identification of the Nonlinear Parameters of an Industrial Translational Guide. , 2006, , 1089.		5
151	The von Neumann threshold of self-reproducing systems: theory and application. Robotica, 2011, 29, 123-135.	1.9	5
152	Improving Stability Margins via Time Delay Control. , 2013, , .		5
153	Robust design of Passive Assist Devices for multi-DOF robotic manipulator arms. Robotica, 2017, 35, 2238-2255.	1.9	5
154	Self-Reproducing Machines: Preventing Degeneracy. , 2006, , .		5
155	Lane Geometry Perception and the Characterization of Its Associated Uncertainty. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 1999, 121, 1-9.	1.6	4
156	Fast Control of Linear Systems Subject to Input Constraints. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2000, 122, 18-26.	1.6	4
157	Sequential Co-Design of an Artifact and its Controller Via Control Proxy Functions. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 125-130.	0.4	4
158	Maneuver based design of a passive-assist device for augmenting linear motion drives. , 2013, , .		4
159	Simulation-based acceptance testing for unmanned ground vehicles. International Journal of Vehicle Autonomous Systems, 2013, 11, 62.	0.2	4
160	Newton-based contour error estimation and robust Cross-Coupling Control for high-precision fast contouring. , 2015, , .		4
161	Design of distributed controllers for component swapping modularity using linear matrix inequalities. , 2016, , .		4
162	Component Swapping Modularity for Distributed Precision Contouring. IEEE/ASME Transactions on Mechatronics, 2017, 22, 2625-2632.	5.8	4

#	ARTICLE	IF	CITATIONS
163	Turning of slender workpieces: Modeling and experiments. Mechanical Systems and Signal Processing, 1989, 3, 195-205.	8.0	3
164	Real-time energy-efficient path planning for unmanned ground vehicles using mission prior knowledge. International Journal of Vehicle Autonomous Systems, 2014, 12, 221.	0.2	3
165	Linear Quadratic Design of Passive Vibration Isolators. , 2014, , .		3
166	Time-delayed vision-based DC motor control via rightmost eigenvalue assignment. , 2014, , .		3
167	Time-Delayed Vibration Control Of Two Degree-Of-Freedom Mechanical System For Improved Stability Margins. IFAC-PapersOnLine, 2015, 48, 1-6.	0.9	3
168	Smart product design for automotive systems. Frontiers of Mechanical Engineering, 2019, 14, 102-112.	4.3	3
169	Keeping Ground Robots on the Move Through Battery & Mission Management. Mechanical Engineering, 2014, 136, S1-S6.	0.1	3
170	Supervisory Control of Drilling. , 1993, , .		3
171	Effect of a Self-Locking Drive Mechanism on the Performance of a Flexible Robot Arm. , 1990, , .		2
172	Controller Design via System Identification. , 1991, , .		2
173	Vibration Localization in Rotating Shafts, Part 1: Theory. Journal of Vibration and Acoustics, Transactions of the ASME, 1998, 120, 138-148.	1.6	2
174	Target Reduction and Balancing Using System Norms: Application to Vehicle Design. , 2002, , 149.		2
175	Stochastic Optimal Capacity Management in Reconfigurable Manufacturing Systems. Journal for Manufacturing Science and Production, 2004, 6, 83-88.	0.1	2
176	Chatter Stability Analysis Using the Matrix Lambert Function and Bifurcation Analysis. , 2006, , 1103.		2
177	Closure to "Discussion of "Analysis of a System of Linear Delay Differential Equations" (2007, ASME J.) Transactions of the ASME, 2007, 129, 123-123.	1.6	2
178	Robust control and time-domain specifications for systems of delay differential equations via eigenvalue assignment. , 2008, , .		2
179	Design of Observer-Based Feedback Control for Time-Delay Systems With Application to Automotive Powertrain Control. , 2009, , .		2
180	Battery swapping modularity design for plug-in HEVs using the augmented lagrangian decomposition method. , 2011, , .		2

#	ARTICLE	IF	CITATIONS
181	Direct and Indirect Adaptive Process Control of Sheet Metal Forming. , 2012, , .		2
182	Overview of Intelligent Transportation Systems. , 0, , 309-321.		2
183	Experimental Verification of a Passive-Assist Design Approach for Improved Reliability and Efficiency of Robot Arms. , 2012, , .		2
184	Modeling and Control of an Automotive All-Wheel Drive Clutch as a Piecewise Affine System. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2014, 136, .	1.6	2
185	Experimental Verification of Dynamic Contour Error Estimation for High-Precision Contouring of Two-Axis Servo-Systems. , 2015, , .		2
186	Experimental verification of component swapping modularity for precision contouring. , 2017, , .		2
187	Recent Advances in Stamping Control. Advances in Industrial Control, 2014, , 23-39.	0.5	2
188	Improving Stability Margins via Time-Delayed Vibration Control. Advances in Delays and Dynamics, 2017, , 235-247.	0.4	2
189	Arch-type Reconfigurable Machine Tool. , 2008, , 219-238.		2
190	A theoretical analysis and control study of open-circuit grinding. International Journal of Mineral Processing, 1983, 10, 25-43.	2.6	1
191	Efficient Computation of Band Saw Blade Stresses. Journal of Mechanisms, Transmissions, and Automation in Design, 1984, 106, 394-400.	0.2	1
192	An Adaptive Observer for On-Line Tool Wear Estimation in Turning - Part II: Results. , 1988, , .		1
193	Utilization of Control Effort Constraints in Linear Controller Design. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 1989, 111, 378-381.	1.6	1
194	PROBABILISTIC ROBUST PARALLEL DESIGN OF THE SUBSYSTEMS CONSTITUTING A COMPLEX SYSTEM. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2005, 38, 15-20.	0.4	1
195	Controllability and Observability of Systems of Linear Delay Differential Equations via the Matrix Lambert W Function. Proceedings of the American Control Conference, 2007, , .	0.0	1
196	Direct optimal distributed controller design for component swapping modularity with application to ISC. , 2010, , .		1
197	Velocity Occupancy Space for Differential Drive Vehicles. , 2010, , .		1
198	A Lambert W function approach for decay function estimation in linear time delay systems. , 2010, , .		1

#	ARTICLE	IF	CITATIONS
199	Robust Maneuver Based Design of Passive-Assist Devices for Augmenting Robotic Manipulator Joints. , 2013, , .		1
200	Real-Time Energy-Efficient Path Planning for Unmanned Ground Vehicles Using Mission Prior Knowledge. , 2013, , .		1
201	Maneuver Based Design of Passive-Assist Devices: A Comparison of Parallel and Serial Systems. , 2013, , .		1
202	Design of Rightmost Eigenvalues Using Distributed Delay. , 2014, , .		1
203	The role of operator style on mission energy requirements for tele-operated unmanned ground vehicles. , 2014, , .		1
204	Velocity occupancy space for differential drive vehicles. International Journal of Vehicle Autonomous Systems, 2014, 12, 65.	0.2	1
205	Vehicle occupancy space for unmanned ground vehicles with actuation error. International Journal of Vehicle Autonomous Systems, 2014, 12, 180.	0.2	1
206	Limitations of Torque Vectoring As a Backup Safety Strategy for Steer-by-Wire Vehicles due to Vehicle Stability Control. , 2017, , .		1
207	Applications and Optimization of a Constant Flux Magnetostrictive Impact Sensor. , 2017, , .		1
208	Auto-Tuning and Adaptive Control. Advances in Industrial Control, 2014, , 87-107.	0.5	1
209	Combined Component Swapping Modularity for a VCT Engine Controller. , 2009, , .		1
210	The Setting and Management of Design Targets in Complex Systems Using System Norms: Extension to Multiple Attributes. , 2003, , .		1
211	Optimal Capacity Management With Stochastic Market Demand and Imperfect Information. , 2003, , .		1
212	Identification of the Normal Force Response to Feed Input in a Turning Operation. , 1990, , .		1
213	Utilization of Control Effort Constraints in Linear Controller Design. , 1986, , .		0
214	Modeling Of Drill Bit Transverse Vibrations. , 1988, 0955, 129.		0
215	An Adaptive Observer for On-Line Tool Wear Estimation in Turning - Part I: Theory. , 1988, , .		0
216	Critical Issues in Development of Open Architecture Controllers. , 1996, , .		0

#	ARTICLE	IF	CITATIONS
217	A Comparison of Two Adaptive Algorithms for Disturbance Cancellation. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1996, 29, 4953-4964.	0.4	0
218	Vibration Localization in Rotating Shafts, Part 2: Experiment. Journal of Vibration and Acoustics, Transactions of the ASME, 1998, 120, 149-155.	1.6	0
219	Osita D. I. Nwokah. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 1999, 121, 582-582.	1.6	0
220	Solution of Systems of Linear Delay Differential Equations Via Lambert Functions. , 2005, , 729.		0
221	Nonlinear Feed Effect in Machining Chatter Analysis. , 2007, , 17.		0
222	Stability criteria for uncertain piecewise affine time-delay systems. , 2012, , .		0
223	Control design for an AWD clutch system via the piecewise affine system framework. , 2012, , .		0
224	Pedestrian Avoidance for Unmanned Ground Vehicles Based on Velocity Occupancy Space. , 2012, , .		0
225	Human Factors and Driver Modeling. , 0, , 93-116.		0
226	Control of Spark Timing. , 0, , 124-125.		0
227	Antilock Brake and Traction-Control Systems. , 0, , 232-256.		0
228	Four-Wheel Steering. , 0, , 272-286.		0
229	Preventing Collisions. , 0, , 322-331.		0
230	Design for Ease of Control and Estimation. , 2016, , .		0
231	Modeling and Validation of a Constant Flux Magnetostrictive Impact Sensor. , 2017, , .		0
232	Boosting Speed and Accuracy in Precision Motion Control. Mechanical Engineering, 2018, 140, S17-S23.	0.1	0
233	LMI-Based Design of Distributed Controllers to Achieve Component Swapping Modularity. IEEE Transactions on Control Systems Technology, 2019, 27, 401-408.	5.2	0
234	Manufacturing Systems and Their Design Principles. The Electrical Engineering Handbook, 2001, , .	0.2	0

#	ARTICLE	IF	CITATIONS
235	Application of Robust Design Techniques to the Parallel Design of Engineering Systems. , 2004, , .		0
236	Statistical Analysis of a Steering Assist Controller Using Driving Simulator Data. , 2005, , .		0
237	Velocity Occupancy Space for Unmanned Ground Vehicles With Actuation Error. , 2012, , .		0
238	Laboratory Development of Process Control. Advances in Industrial Control, 2014, , 53-64.	0.5	0
239	Equipment and Material Flow Control. Advances in Industrial Control, 2014, , 11-22.	0.5	0
240	Machine Control. Advances in Industrial Control, 2014, , 41-51.	0.5	0
241	On the Convergence of the Matrix Lambert W Approach to Solution of Systems of Delay Differential Equations. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2020, 142, .	1.6	0
242	Estimation of Time Varying Parameters in Discrete Time Dynamic Systems: A Tool Wear Estimation Example. , 1989, , .		0