Tarunraj Singh

List of Publications by Year
in descending order

242 papers	3,151 citations	201385 27 h-index	214527 47 g-index
246 all docs	246 docs citations	246 times ranked	1727 citing authors

#	Article	IF	Citations
1	Robust time-optimal control - Frequency domain approach. Journal of Guidance, Control, and Dynamics, 1994, 17, 346-353.	1.6	178
2	Design of noise and period-time robust high-order repetitive control, with application to optical storage. Automatica, 2007, 43, 2086-2095.	3.0	155
3	Uncertainty Propagation for Nonlinear Dynamic Systems Using Gaussian Mixture Models. Journal of Guidance, Control, and Dynamics, 2008, 31, 1623-1633.	1.6	147
4	Adaptive Gaussian Sum Filter for Nonlinear Bayesian Estimation. IEEE Transactions on Automatic Control, 2011, 56, 2151-2156.	3.6	125
5	Robust Time-Delay Control. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 1993, 115, 303-306.	0.9	118
6	Blood glucose control algorithms for type 1 diabetic patients: A methodological review. Biomedical Signal Processing and Control, 2013, 8, 107-119.	3.5	101
7	Shaped Input Control of a System With Multiple Modes. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 1993, 115, 341-347.	0.9	96
8	Input shaping/time delay control of maneuvering flexible structures. , 2002, , .		78
9	Fuel/time optimal control of the benchmark problem. Journal of Guidance, Control, and Dynamics, 1995, 18, 1225-1231.	1.6	73
10	Machining condition optimization by genetic algorithms and simulated annealing. Computers and Operations Research, 1997, 24, 647-657.	2.4	73
11	Robust time-delay control of multimode systems. International Journal of Control, 1995, 62, 1319-1339.	1.2	71
12	Distributed Control of Laminated Beams: Timoshenko Theory vs. Euler-Bernoulli Theory. Journal of Intelligent Material Systems and Structures, 1997, 8, 149-157.	1.4	66
13	Polynomial-Chaos-Based Bayesian Approach for State and Parameter Estimations. Journal of Guidance, Control, and Dynamics, 2013, 36, 1058-1074.	1.6	59
14	Formation of local resonance band gaps in finite acoustic metamaterials: A closed-form transfer function model. Journal of Sound and Vibration, 2017, 410, 429-446.	2.1	57
15	Optimal Size and Location of Piezoelectric Actuator/Sensors: Practical Considerations. Journal of Guidance, Control, and Dynamics, 2000, 23, 509-515.	1.6	55
16	Computation of probabilistic hazard maps and source parameter estimation for volcanic ash transport and dispersion. Journal of Computational Physics, 2014, 271, 39-59.	1.9	51
17	Minimax Design of Robust Controllers for Flexible Systems. Journal of Guidance, Control, and Dynamics, 2002, 25, 868-875.	1.6	49
18	Minimax design of vibration absorbers for linear damped systems. Journal of Sound and Vibration, 2011, 330, 2437-2448.	2.1	49

#	Article	IF	Citations
19	Efficient particle filtering for road-constrained target tracking. IEEE Transactions on Aerospace and Electronic Systems, 2007, 43, 1454-1469.	2.6	46
20	Estimation and propagation of volcanic source parameter uncertainty in an ash transport and dispersal model: application to the Eyjafjallajokull plume of 14â€"16 April 2010. Bulletin of Volcanology, 2012, 74, 2321-2338.	1.1	46
21	Fuel/Time Optimal Control of Spacecraft Maneuvers. Journal of Guidance, Control, and Dynamics, 1997, 20, 394-397.	1.6	45
22	Input-shaped control of three-dimensional maneuvers of flexible spacecraft. Journal of Guidance, Control, and Dynamics, 1993, 16, 1061-1068.	1.6	44
23	Characterizing performance of Î±-Î²-Î³ filters. IEEE Transactions on Aerospace and Electronic Systems, 2002, 38, 1072-1087.	2.6	42
24	Conjugate Unscented Transformation: Applications to Estimation and Control. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2018, 140, .	0.9	41
25	The higher order unscented filter. , 0, , .		39
26	The effects of adverse condition warning system characteristics on driver performance: An investigation of alarm signal type and threshold level. Behaviour and Information Technology, 2002, 21, 235-248.	2.5	38
27	Jerk Limited Input Shapers. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2004, 126, 215-219.	0.9	35
28	Pole distribution in finite phononic crystals: Understanding Bragg-effects through closed-form system dynamics. Journal of the Acoustical Society of America, 2017, 142, 1399-1412.	0.5	33
29	The Conjugate Unscented Transform &#x2014; An approach to evaluate multi-dimensional expectation integrals. , 2012, , .		32
30	Robust Minimum Power/Jerk Control of Maneuvering Structures. Journal of Guidance, Control, and Dynamics, 2001, 24, 816-826.	1.6	31
31	Widening, transition and coalescence of local resonance band gaps in multi-resonator acoustic metamaterials: From unit cells to finite chains. Journal of Sound and Vibration, 2022, 523, 116716.	2.1	30
32	Equilibrium stability in decentralized design systems. International Journal of Systems Science, 2005, 36, 651-662.	3.7	29
33	On-Off Control With Specified Fuel Usage. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 1999, 121, 206-212.	0.9	27
34	Robust Time-Optimal Control of Flexible Structures With Parametric Uncertainty. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 1997, 119, 743-748.	0.9	26
35	Dispersion transitions and pole-zero characteristics of finite inertially amplified acoustic metamaterials. Journal of Applied Physics, 2018, 123, .	1.1	26
36	Jerk Limited Time Optimal Control of Flexible Structures. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2003, 125, 139-142.	0.9	26

#	Article	IF	Citations
37	Design of closed-loop input shaping controllers. , 0, , .		21
38	Uncertainty propagation in puff-based dispersion models using polynomial chaos. Environmental Modelling and Software, 2010, 25, 1608-1618.	1.9	21
39	Temporal, probabilistic mapping of ash clouds using wind field stochastic variability and uncertain eruption source parameters: Example of the 14 <scp>A</scp>pril 2010 <scp>E</scp>yjafjallajÃ¶kull eruption. Journal of Advances in Modeling Earth Systems, 2014, 6, 1173-1184.	1.3	20
40	Sliding-Mode/Shaped-Input Control of Flexible/Rigid Link Robots. Journal of Sound and Vibration, 1994, 171, 185-200.	2.1	19
41	Exact time-optimal control of the wave equation. Journal of Guidance, Control, and Dynamics, 1996, 19, 130-134.	1.6	18
42	Passive Control of Overhead Cranes. JVC/Journal of Vibration and Control, 1999, 5, 443-459.	1.5	18
43	ON THE FEEDBACK CONTROL OF THE WAVE EQUATION. Journal of Sound and Vibration, 2000, 234, 625-640.	2.1	18
44	Polynomial Chaos Based Design of Robust Input Shapers. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2010, 132, .	0.9	17
45	A DDDAS Framework for Volcanic Ash Propagation and Hazard Analysis. Procedia Computer Science, 2012, 9, 1090-1099.	1.2	17
46	Dispersion and topological characteristics of permutative polyatomic phononic crystals. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2019, 475, 20190022.	1.0	17
47	Challenges in Developing DDDAS based Methodology for Volcanic Ash Hazard Analysis â€" Effect of Numerical Weather Prediction Variability and Parameter Estimation. Procedia Computer Science, 2013, 18, 1871-1880.	1.2	16
48	Adaptive track fusion in a multisensor environment. , 2000, , .		15
49	Unscented Kalman Filter/Smoother for a CBRN puff-based dispersion model. , 2007, , .		15
50	Desired Order Continuous Polynomial Time Window Functions for Harmonic Analysis. IEEE Transactions on Instrumentation and Measurement, 2010, 59, 2475-2481.	2.4	15
51	Polynomial Chaos Quadrature-based Minimum Variance Approach for Source Parameters Estimation. Procedia Computer Science, 2012, 9, 1129-1138.	1.2	14
52	An Investigation of Equilibrium Stability in Decentralized Design Using Nonlinear Control Theory. , 2004, , .		13
53	Sensitivity analysis of a one-dimensional model of a volcanic plume with particle fallout and collapse behavior. Journal of Volcanology and Geothermal Research, 2016, 326, 43-53.	0.8	13
54	Desensitized control of vibratory systems with friction: linear programming approach. Optimal Control Applications and Methods, 2004, 25, 165-180.	1.3	12

#	Article	IF	Citations
55	Evaluation of advanced Lukasâ€"Kanade optical flow on thoracic 4D-CT. Journal of Clinical Monitoring and Computing, 2013, 27, 433-441.	0.7	12
56	Conjugate unscented transform rules for uniform probability density functions. , 2013, , .		12
57	On-off control of flexible spacecraft with specified fuel usage. , 1997, , .		11
58	Desensitized Jerk Limited-Time Optimal Control of Multi-Input Systems. Journal of Guidance, Control, and Dynamics, 2002, 25, 474-481.	1.6	11
59	On noise- and period-time sensitivity in high order repetitive control. , 2004, , .		11
60	Data assimilation in variable dimension dispersion models using particle filters. , 2007, , .		11
61	Approximate interval method for epistemic uncertainty propagation using Polynomial Chaos and evidence theory. , 2010, , .		11
62	State Uncertainty Propagation in the Presence of Parametric Uncertainty and Additive White Noise. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2011, 133, 051009.	0.9	11
63	Discrete sliding mode controller for pressure control with an electrohydraulic servovalve. , 0, , .		10
64	Potential Functions for En-Route Air Traffic Management and Flight Planning. , 2004, , .		10
65	Enhanced Convergence in Distributed Design Processes. , 2006, , 95.		10
66	Optimal information collection for nonlinear systems- An application to multiple target tracking and localization. , 2013, , .		10
67	Zero-phase velocity tracking of vibratory systems. Control Engineering Practice, 2015, 40, 93-101.	3.2	10
68	Near-minimum-time maneuvers of large structures - Theory and experiments. Journal of Guidance, Control, and Dynamics, 1995, 18, 1380-1385.	1.6	9
69	Fuel/Time Optimal Control of Flexible Space Structures: A Frequency Domain Approach. JVC/Journal of Vibration and Control, 1999, 5, 795-817.	1.5	9
70	Sequential linear programming for design of time-optimal controllers. , 2007, , .		9
71	Minimax Input Shaper Design Using Linear Programming. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2008, 130, .	0.9	9
72	Design of input shapers using modal cost for multi-mode systems. Automatica, 2010, 46, 598-604.	3.0	9

#	Article	IF	Citations
73	Fast Construction of Surrogates for UQ Central to DDDASâ€" Application to Volcanic Ash Transport1. Procedia Computer Science, 2014, 29, 1227-1235.	1.2	9
74	Intelligent beam structures: Timoshenko theory vs. Euler-Bernoulli theory. , 0, , .		8
75	Investigation of Factors Affecting Driver Performance Using Adverse Condition Warning Systems. Proceedings of the Human Factors and Ergonomics Society, 2001, 45, 1699-1703.	0.2	8
76	Efficient Minimax Control Design for Prescribed Parameter Uncertainty. Journal of Guidance, Control, and Dynamics, 2004, 27, 1009-1016.	1.6	8
77	Ground target tracking using terrain information. , 2007, , .		8
78	Conjugate Unscented Transform and its Application to Filtering and Stochastic Integral Calculation. , 2012, , .		8
79	Pole-Zero, Zero-Pole Canceling Input Shapers. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2012, 134, .	0.9	8
80	Optimal information collection for source parameter estimation of atmospheric release phenomenon. , 2014, , .		8
81	Band gap synthesis in elastic monatomic lattices via input shaping. Meccanica, 2018, 53, 3105-3122.	1.2	8
82	Computation of near-minimum-time maneuvers of flexible structures by parameter optimization. Journal of Guidance, Control, and Dynamics, 1994, 17, 354-360.	1.6	7
83	Passive control of overhead cranes. , 0, , .		7
84	Efficient particle filtering for road-constrained target tracking. , 2005, , .		7
85	Uncertainty Propagation for Nonlinear Dynamical Systems Using Gaussian Mixture Models. , 2008, , .		7
86	Uncertainty quantification of tunable elastic metamaterials using polynomial chaos. Journal of Applied Physics, 2020, 127, .	1.1	7
87	Shaped inputs for a multimode system. , 0, , .		6
88	Effect of damping on the structure of the time-optimal control profile. Journal of Guidance, Control, and Dynamics, 1996, 19, 1182-1184.	1.6	6
89	Design of Hardware/Algorithms for Enhancement of Driver-Vehicle Performance in Inclement Conditions Using a Virtual Environment. , 0, , .		6
90	Desensitized minimum power/jerk control profiles for rest-to-rest maneuvers. , 2000, , .		6

#	Article	IF	Citations
91	Optimal Actuator/Sensor Placement for Control of Combustion Instabilities. Journal of Propulsion and Power, 2003, 19, 148-151.	1.3	6
92	Timeâ€optimal control of flexible systems subject to friction. Optimal Control Applications and Methods, 2008, 29, 257-277.	1.3	6
93	An Adaptive Attitude Control Formulation Under Angular Velocity Constraints. , 2008, , .		6
94	Minimax State/Residual-Energy Constrained Shapers for Flexible Structures: Linear Programming Approach. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2010, 132, .	0.9	6
95	Vibration control of unmanned aerial vehicle with suspended load using the concept of differential flatness. , 2019, , .		6
96	Reduced-Order Modeling for Dynamic Mode Decomposition Without an Arbitrary Sparsity Parameter. AIAA Journal, 2020, 58, 3919-3931.	1.5	6
97	Efficient particle filtering for road-constrained target tracking. IEEE Transactions on Aerospace and Electronic Systems, 2007, 43, 1454-1469.	2.6	6
98	Robust time-optimal control of flexible spacecraft with structured uncertainties. , 1996, , .		5
99	Adaptive fuzzy logic control of an anti-lock braking system. , 0, , .		5
100	Optimal design of /spl alpha/-/spl beta/-/spl gamma/(/spl gamma/) filters. , 2000, , .		5
101	Concurrent Feed-forward/Feed-back Design for Flexible Structures. , 2002, , .		5
102	Modeling of Glucose-Insulin System Dynamics in Diabetic Goettingen Minipigs. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 414-419.	0.4	5
103	Polynomial chaos based method for state and parameter estimation. , 2012, , .		5
104	Multi-step ahead predictive model for blood glucose concentrations of type-1 diabetic patients. Scientific Reports, 2021, 11, 24332.	1.6	5
105	Energy-Time optimal control of wheeled mobile robots. Journal of the Franklin Institute, 2022, 359, 5354-5384.	1.9	5
106	Exact time-optimal control of the wave equation. , 1995, , .		4
107	Modeling of an Automotive Air-Conditioning System. , 2000, , .		4
108	Target tracking via a dynamic circular filter/linear /spl alpha/-/spl beta/ filters in 2D. , 2000, , .		4

#	Article	IF	Citations
109	Controller Design for Flexible Systems With Friction: Pulse Amplitude Control. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2005, 127, 336-344.	0.9	4
110	Parametric control of combustion thermo-acoustic instabilities. IEEE Transactions on Control Systems Technology, 2005, 13, 1076-1083.	3.2	4
111	Robust input shaper design using Linear Matrix Inequalities. , 2006, , .		4
112	Closed-form minimax time-delay filters for underdamped systems. Optimal Control Applications and Methods, 2007, 28, 157-173.	1.3	4
113	A Novel Coordinate Transformation for Obstacle Avoidance and Optimal Trajectory Planning. , 2008, , .		4
114	Input shaping design using sequential linear programming (SLP) for non-linear systems. , 2008, , .		4
115	Application of Conjugate Unscented Transform in source parameters estimation. , 2013, , .		4
116	Polynomial Chaos-Based Controller Design for Uncertain Linear Systems With State and Control Constraints. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2018, 140, .	0.9	4
117	Glycemic Control of People With Type 1 Diabetes Based on Probabilistic Constraints. IEEE Journal of Biomedical and Health Informatics, 2019, 23, 1773-1783.	3.9	4
118	Nonintrusive Global Sensitivity Analysis for Linear Systems With Process Noise. Journal of Computational and Nonlinear Dynamics, 2019, 14, .	0.7	4
119	Parameter Estimation of Atmospheric Release Incidents Using Maximal Information Collection. Lecture Notes in Computer Science, 2015, , 310-321.	1.0	4
120	Research Opportunities in Contextualized Fusion Systems. The Harbor Surveillance Case. Lecture Notes in Computer Science, 2011, , 621-628.	1.0	4
121	Influence of grape juice and orange juice on the pharmacokinetics and pharmacodynamics of diltiazem in healthy human male subjects. International Journal of Clinical Pharmacology and Therapeutics, 2008, 46, 511-518.	0.3	4
122	Effects of joint flexibility on the motion of a flexible-arm robot. Dynamical Systems, 1991, 6, 235-254.	0.7	3
123	Robust time-delay control of multimode systems. , 0, , .		3
124	Fuel/time optimal control of the benchmark two-mass/spring system. , 0, , .		3
125	Realistic determination of the optimal size and location of piezoelectric actuator/sensors. , 0, , .		3
126	Analysis of α-β-γ filters. , 0, , .		3

#	Article	IF	Citations
127	Circular prediction algorithms-hybrid filters. , 0, , .		3
128	Minimax design of robust controllers for flexible systems. , 2002, , .		3
129	Data Assimilation for Dispersion Models. , 2006, , .		3
130	Rest-to-Rest Motion of an Experimental Flexible Structure Subject to Friction: Linear Programming Approach. Journal of Vibration and Acoustics, Transactions of the ASME, 2010, 132, .	1.0	3
131	eABS: Regenerative Anti-Lock Braking for Electric Motorcycles. SAE International Journal of Passenger Cars - Mechanical Systems, 0, 6, 1484-1492.	0.4	3
132	State constrained controller design for uncertain linear systems using polynomial Chaos. , 2016, , .		3
133	Optimal meal time after bolusing for Type 1 diabetes patients under meal uncertainties. , 2017, , .		3
134	Periodic Control of Unmanned Aerial Vehicles based on Differential Flatness. , 2018, , .		3
135	Joint chance constrained input shaping. Journal of the Franklin Institute, 2020, 357, 10027-10053.	1.9	3
136	Minimum Energy Control of a Unicycle Model Robot. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2021, , .	0.9	3
137	Robust Input Shaper Design using Linear Matrix Inequalities. , 2006, , .		3
138	Global Sensitivity Analysis on the Bergman Minimal Model. IFAC-PapersOnLine, 2020, 53, 16112-16118.	0.5	3
139	Minimax filtering in the presence of parameter uncertainties. , 2000, , .		2
140	Discrete time point-to-point control of flexible structures. , 2000, , .		2
141	Automated design of model predictive controllers. , 2000, , .		2
142	Jerk limited time optimal control of multi-input systems. , 0, , .		2
143	Adaptive pulse amplitude pulse width control of systems subject to coulomb and viscous friction. , 0, , .		2
144	A Minimax Approach To Robust Repetitive Learning Control. , 0, , .		2

#	ARTICLE	IF	CITATIONS
145	Tracking for maneuvering target trajectories via the 3d circular filter. IEEE Transactions on Aerospace and Electronic Systems, 2005, 41, 1373-1382.	2.6	2
146	Cubic control for phase I smart base-isolated benchmark building with emphasis on nonstructural performance. Structural Control and Health Monitoring, 2006, 13, 758-774.	1.9	2
147	High precision point-to-point maneuvering of an experimental structure subject to friction via adaptive impulsive control.. , 2006, , .		2
148	Source identification of puff-based dispersion models using convex optimization. , 2010, , .		2
149	Approximate propagation of both epistemic and aleatory uncertainty through dynamic systems. , 2010, , .		2
150	Bayesian Estimation for CBRN Sensors with Non-Gaussian Likelihood. IEEE Transactions on Aerospace and Electronic Systems, 2011, 47, 684-701.	2.6	2
151	A robust data assimilation approach in the absence of sensor statistical properties. , 2015, , .		2
152	Chance constraint based design of input shapers. , 2017, , .		2
153	Chance constraint based design of controllers for linear uncertain systems. , 2017, , .		2
154	Chance-Constraint-Based Design of Open-Loop Controllers for Linear Uncertain Systems. IEEE/ASME Transactions on Mechatronics, 2018, 23, 1952-1963.	3.7	2
155	Pareto Front Identification via Objective Vector Jacobian Matrix Singularity. , 2013, , .		2
156	COMPARISON OF LINEARIZATION AND GRAPH CLUSTERING METHODS FOR UNCERTAINTY QUANTIFICATION OF LARGE SCALE DYNAMICAL SYSTEMS. , 2017, 7, 23-56.		2
157	High Precision Point-To-Point Maneuvering of an Experimental Structure Subject To Friction Via Adaptive Impulsive Control. , 2006, , .		2
158	Recent Results in Reference Prefiltering for Precision Motion Control. IFAC-PapersOnLine, 2020, 53, 8656-8667.	0.5	2
159	On steady incompressible three-dimensional hydromagnetic flows. Proceedings of the American Mathematical Society, 1982, 85, 79-79.	0.4	1
160	Fuel/time optimal control of flexible space structures. , 1995, , .		1
161	Radial basis function approach to closed-loop time-optimal control. , 1995, , .		1
162	On the feedback control of the wave equation. , 0, , .		1

#	Article	IF	Citations
163	Optimal fuzzy logic control for an anti-lock braking system. , 0, , .		1
164	Stability Analysis of Nonlinear Parametric and Coulomb Control Systems. JVC/Journal of Vibration and Control, 1999, 5, 891-905.	1.5	1
165	Large scale simulation of a distributed target tracking system. , 0, , .		1
166	LP Based Global Minimization of Peak Base Reaction Force of Maneuvering Robots. , 2003, , .		1
167	Controller design for flexible systems with friction: linear programming approach. , 0, , .		1
168	Controller Design for Flexible Systems with Friction: Pulse Amplitude Control. , 2004, , .		1
169	Robust Feed-Forward/Feedback Design for Tape Transport. , 2004, , .		1
170	Concurrent Feedback/Feedforward Design for Second Order Systems. , 2005, , .		1
171	CBRN data fusion using puff-based model and bar-reading sensor data. , 2007, , .		1
172	A multiresolution adaptive approach for respiratory motion modeling. , 2007, , .		1
173	Design of input shapers using modal cost for multi-mode systems. , 2010, , .		1
174	A multi-resolution approach for tumor motion modeling. , 2010, , .		1
175	Source Localization on Two-Dimensional Grid. , 2011, , .		1
176	Uncertainty Propagation in Dynamic Systems using Polynomial Chaos based Multiresolution Approach. , 2012, , .		1
177	Minimax Design of Parallel Multi-Mass Dynamic Vibration Absorbers. , 2012, , .		1
178	Road network identification by means of the Hough transform. , 2012, , .		1
179	Time-Optimal Output Transition for Minimum-Phase Systems. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2013, 135, .	0.9	1
180	Time-delay pre-filter design for vibration free tracking of periodic reference signals. , 2015, , .		1

#	Article	IF	Citations
181	Application of a Time-Delay Pre-Filter Design for Periodic Signal Tracking of Lightly-Damped Multivariable Systemsâˆ—â€”The research leading to these results has received funding from the Dutch ministry of Economic afairs and is part of the joint Eindhoven University of Technology/Philips Healthcare MIxR Project.. IFAC-PapersOnLine, 2015, 48, 135-140.	0.5	1
182	Sparse Approximation-Based Maximum Likelihood Approach for Estimation of Radiological Source Terms. IEEE Transactions on Nuclear Science, 2016, 63, 1169-1187.	1.2	1
183	Periodic Signal Tracking for Lightly Damped Systems. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2017, 139, .	0.9	1
184	A Mathematical Introduction to Control Theory, Second Edition. AIAA Journal, 2017, 55, 691-692.	1.5	1
185	Mass drug administration (MDA) to eliminate Lymphatic filariasis: Even 100% coverage would fail to achieve elimination of infection in community in 6 years. International Journal of Infectious Diseases, 2019, 79, 143.	1.5	1
186	Endurance Maximizing Periodic Control of Unmanned Aerial Vehicles. , 2019, , .		1
187	Optimum model size for minimum residual vibration. , 1995, , .		1
188	Multiscale Method for Hazard Map Construction. Lecture Notes in Computer Science, 2015, , 41-53.	1.0	1
189	Differential Flatness based Run-to-Run Control of Blood Glucose for People with Type 1 Diabetes. , 2019, , .		1
190	Load Vibration Mitigation in Unmanned Aerial Vehicles With Cable Suspended Load. ASME Journal of Autonomous Vehicles and Systems, 2021, 1, .	0.6	1
191	An appliance for the management of cheek biting. Journal of the Indian Dental Association, 1971, 43, 18.	0.0	1
192	Input shaping for travelling wave generation. Smart Materials and Structures, 2022, 31, 055006.	1.8	1
193	A Highly Stable Multi-Decade Frequency Divider. IETE Journal of Research, 1965, 11, 361-365.	1.8	0
194	A Digital Read out for Transistor Decade Counter. IETE Journal of Research, 1966, 12, 25-28.	1.8	0
195	A Transistor Multivibrator with very Long Time Periods and Wide Mark to Space Ratio. IETE Journal of Research, 1967, 13, 375-380.	1.8	0
196	A Thyristorized Proportional Controller for a Constant Temperature Bath. IETE Journal of Research, 1969, 15, 521-528.	1.8	0
197	A Multipurpose Transistorized Tachometer. IETE Journal of Research, 1970, 16, 407-413.	1.8	0
198	A note on the kinematics of the tachyon fluid. Astrophysics and Space Science, 1985, 110, 393-395.	0.5	0

#	Article	IF	Citations
199	Time-suboptimal control of a flexible structure. , 0, , .		0
200	Saturating controllers for pressure control with an electrohydraulic servovalve. , 0, , .		0
201	Application of controllability measure for actuator placement in a civil engineering structure. , 0, , .		0
202	Adaptive data fusion processing: thoughts and perspectives. , 0, , .		0
203	Near minimax robust control of flexible structures. , 0, , .		0
204	Minimax controller design for combustion instabilities. , 0, , .		0
205	Modeling of Supply Chain Decision Logic Using PID Controllers. , 2004, , 755.		0
206	Time Optimal Control of Flexible Systems Subject to Friction. , 2004, , .		0
207	The effect of four different types of diet on the bioavailability of loracarbef. European Journal of Drug Metabolism and Pharmacokinetics, 2007, 32, 205-211.	0.6	0
208	Minimax defection/energy-limited controllers for flexible structures: Linear programming approach. , 2008, , .		0
209	A Probabilistic Approach for Robust Input Shapers Design for Precise Point-to-Point Control. , 2009, , .		0
210	A Global-Local Approach for Trajectory Generation on Rough Terrain. , 2009, , .		0
211	A Multi-Resolution Approach with Sparseness Property for Input-Output Approximation. , 2010, , .		0
212	Minimum Base Reaction Control for Multi-Link Systems in a Field with Obstacles. , 2010, , .		0
213	Optimal control design using Sequential Linear Programming. , 2010, , .		0
214	Applying optimal control using SLP on a hydraulic system. , 2010, , .		0
215	Modeling and uncertainty quantification of motion of lung tumors for image guided radiation therapy. , 2010, , .		0
216	A hierarchical modeling algorithm for respiration induced tumor motion modeling. , 2012, , .		0

#	ARTICLE	IF	CITATIONS
217	Design of Precise Ramp Following Input Shapers. , 2012, , .		0
218	Time-optimal output transitions for minimum phase systems: A frequency domain approach to post-actuation. , 2012, , .		0
219	Jacobian matrix singularity based pareto front identification for multi-objective problems. , 2013, , .		0
220	Minimum entropy open loop control for linear dynamical systems with uncertain parameters. , 2014, , .		0
221	A mixture distribution for visual foraging. , 2014, , .		0
222	Non-Negative Matrix Factorization Based Uncertainty Quantification Method for Complex Networked Systems. , 2015, , .		0
223	Laplacian graph based approach for uncertainty quantification of large scale dynamical systems. , 2015, , .		0
224	Weather based irradiance modeling of solar farms. , 2015, , .		0
225	State estimations for application in diabetes control. , 2015, , .		0
226	An Adaptive Gaussian Mixture Model Approach Based Framework for Solving Fokker-Planck Kolmogorov Equation Related to High Dimensional Dynamical Systems. , 2016, , .		0
227	Unscented Transformation based estimation of parameters of nonlinear models using heteroscedastic data. Pattern Recognition, 2016, 55, 160-171.	5.1	0
228	An analytical model for band gap behavior in lumped elastic metamaterials. Proceedings of SPIE, 2017, , .	0.8	0
229	Hypo/Hyperglycemic Constrained Design of IV Insulin Control for Type 1 Diabetic Patients With Meal and Initial Condition Uncertainties Using Sequential Quadratic Programming. , 2018, , .		0
230	Adjoint- and Hybrid-Based Hessians for Optimization Problems in System Identification. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2018, 140, .	0.9	0
231	Optimal Design of Inerter based vibration absorbers. , 2018, , .		0
232	Overlapping Clustering Based Technique for Scalable Uncertainty Quantification in Physical Systems. SIAM-ASA Journal on Uncertainty Quantification, 2020, 8, 827-859.	1.1	0
233	Uncertainty Quantification of Differential Algebraic Equations Using Polynomial Chaos. Journal of Computational and Nonlinear Dynamics, 2021, , .	0.7	0
234	Parametric Control of Combustion Thermo-Acoustic Instabilities. , 2003, , .		0

#	Article	IF	Citations
235	Closed form minimax time-delay filters for underdamped systems. , 2004, , .		0
236	Road Network Estimation Using Implicit Curves. , 2013, , .		0
237	Variable Structure Control of a Single-Link Flexible Arm Robot. , 1990, , .		0
238	Ground Target Tracking Applications. Design Examples for Military and Civil Domains. Advances in Computer Vision and Pattern Recognition, 2016, , 597-625.	0.9	0
239	Interpreting phononic Bragg band gaps through finite system dynamics and transfer functions. , 2018, , .		0
240	Derivative Based Global Sensitivity Analysis using Conjugate Unscented Transforms. , 2019, , .		0
241	Reid index and emphysema. Journal of the Indian Medical Association, 1978, 71, 91-3.	0.2	0
242	Beta-thalassemia major surviving till 20 years without transfusion (a case report). Journal of the Association of Physicians of India, The, 1981, 29, 421-3.	0.0	0