

Fotis Koumboulis

List of Publications by Year in descending order

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159
papers

1,025
citations

516710

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h-index

677142

22
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159
all docs

159
docs citations

159
times ranked

254
citing authors

#	ARTICLE	IF	CITATIONS
1	Switching Wireless Control for Longitudinal Quadrotor Maneuvers. Journal of Intelligent and Robotic Systems: Theory and Applications, 2021, 102, 1.	3.4	9
2	Trim point transitions via I/O decoupling controllers for 6DOF quadrotors. , 2021, , .		0
3	A Robust Control Scheme for an Experimental Hydraulic System. , 2021, , .		0
4	Delayless Controllers for Diagonal Decoupling and Disturbance Rejection of Time Delay Systems with Measurable and Non-measurable Disturbances. , 2020, , .		2
5	Wireless Longitudinal Motion Controller Design for Quadrotors. , 2020, , .		2
6	Motion Control for Constraint Mobile Robotic Manipulators in Singular Time Delay Form. , 2020, , .		0
7	Block Decoupling and Disturbance Rejection for General Neutral Multi Delay Systems via Measurement Output Feedback Dynamic Controllers. , 2019, , .		1
8	On the Common Control Design of Robotic Manipulators Carrying Different Loads. Mechanisms and Machine Science, 2019, , 416-424.	0.5	2
9	Independent velocity control of the longitudinal motion of quadrotors*. , 2018, , .		3
10	A flow supervisory control scheme in generic modular form. , 2018, , .		0
11	Delayless Controllers for Triangular Decoupling with Simultaneous Disturbance Rejection of General Neutral Time Delay Systems. , 2018, , .		5
12	Function supervisors for storage systems. , 2018, , .		8
13	On the P-D State Feedback Controller Design for the Common Triangular Decoupling of Multi Model Descriptor Systems*. , 2018, , .		1
14	Modular supervisory control for mining process elevator systems. , 2017, , .		2
15	Supervisory control for flexibility of production manufacturing processes. , 2017, , .		17
16	Vehicle lateral control using a robust tracking controller based on vision look ahead system. , 2017, , .		3
17	Towards remote control of planar redundant robotic manipulators. , 2017, , .		7
18	Position control of a planar robot manipulator mounted on a VTOL aircraft. , 2017, , .		1

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19	Switching design for the observation of the biomass in alcoholic fermentation processes. , 2017, , .		3
20	Supervisory control for hierarchical switching of communication protocols. , 2017, , .		4
21	Robust PID Controller for a Pneumatic Actuator. MATEC Web of Conferences, 2016, 41, 02001.	0.2	2
22	A unified approach for the common I/O decoupling via measurement output feedback of multi model descriptor and normal systems. Journal of the Franklin Institute, 2016, 353, 4253-4279.	3.4	6
23	Common I/O Triangular Decoupling for multi model descriptor systems. Systems and Control Letters, 2016, 97, 108-114.	2.3	2
24	Automata-Based Programming for the Development of a Web based Application. , 2016, , .		0
25	Delayless dynamic controllers for exact model matching with simultaneous disturbance rejection of general neutral time delay systems. , 2016, , .		2
26	P-D state feedback controllers for common I/O decoupling of multi model descriptor systems. , 2016, , .		2
27	A two layer supervisor scheme for ring manufacturing production chains. , 2016, , .		4
28	Independent motion control of a tower crane through wireless sensor and actuator networks. ISA Transactions, 2016, 60, 312-320.	5.7	20
29	Mobile robots in singular time-delay form “ Modeling and control. Journal of the Franklin Institute, 2016, 353, 160-179.	3.4	10
30	Common I/O Decoupling for Multi Model Descriptor Systems. IEEE Transactions on Automatic Control, 2016, 61, 783-788.	5.7	8
31	Robust stabilizability algorithms with application to force control of a hydraulic actuator. , 2015, , .		0
32	Towards an L_1 PID controller design for ride comfort improvement. , 2014, , .		0
33	Robust position tracking for a hydraulic servo system. , 2014, , .		1
34	I/O Decoupling of general neutral time delay systems via delayless measurement output feedback dynamic controllers. , 2014, , .		3
35	Exact model matching and disturbance rejection of linear singular multi-delay systems via measurement output feedback. , 2014, , .		2
36	A disturbance rejection controller for an anti-mine mobile robotic manipulator. , 2014, , .		2

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37	Towards wireless control for a permanent magnet synchronous motor. , 2014, , .		1
38	A Heuristic Control Algorithm for Robust Internal Model Control with Arbitrary Reference Model. Lecture Notes in Electrical Engineering, 2014, , 67-81.	0.4	2
39	A Control Scheme Towards Accurate Firing While Moving for a Mobile Robotic Weapon System with Delayed Resonators. Springer Optimization and Its Applications, 2014, , 303-320.	0.9	4
40	Delayless dynamic controllers for Disturbance Rejection of general neutral time delay systems. , 2013, , .		5
41	On the Exact Model Matching of linear singular multi-delay systems via measurement output feedback. , 2013, , .		1
42	Triangular decoupling with simultaneous disturbance rejection of general neutral time delay systems via measurement output feedback dynamic controllers. , 2013, , .		2
43	Robust PID controller for electro — Hydraulic actuators. , 2013, , .		6
44	I/O Decoupling with simultaneous Disturbance Rejection of general neutral time delay systems via a measurement output feedback dynamic controller. , 2013, , .		9
45	Robust control of pneumatic clutch actuators using Simulated Annealing Techniques. , 2013, , .		14
46	Robust control algorithms for a hydraulic actuator with variable displacement vane pump. , 2012, , .		3
47	On the disturbance decoupling of linear singular multi-delay systems. , 2012, , .		1
48	Fault detection for Sequential Interindustry Models. , 2012, , .		0
49	A switching observer design scheme for a double effect evaporator. , 2012, , .		2
50	Towards dynamic controller design for Disturbance Rejection of MIMO neutral time delay systems. , 2011, , .		7
51	Longitudinal flight multi condition control using robust PID controllers. , 2011, , .		5
52	A two stage control scheme towards stability and robustness for PMSMs with unknown load torque. , 2011, , .		1
53	On the control of the liquid pouring process using cooperative manipulators. International Journal of Modelling, Identification and Control, 2011, 12, 173.	0.2	4
54	Step-wise safe switching control of a constant turning force system. International Journal of Modelling, Identification and Control, 2011, 12, 191.	0.2	8

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55	Disturbance rejection of general linear neutral time delay systems, via static delayless measurement output feedback controller. , 2011, , .		3
56	A three term controller for ride comfort improvement. , 2011, , .		11
57	Block decoupling of general neutral multi delay systems. , 2011, , .		2
58	Towards fault detection in singular Leontief production models. , 2011, , .		2
59	A generalised control metaheuristic framework for industrial processes. International Journal of Automation and Control, 2010, 4, 218.	0.5	4
60	Metaheuristic control of substrate concentration for an activated sludge process. International Journal of Modelling, Identification and Control, 2010, 10, 117.	0.2	4
61	Temperature control of a neutral time delay central heating system via a two term disturbance compensator. , 2010, , .		2
62	Triangular decoupling of non square general neutral time delay systems via dynamic measurement output feedback with application to an ASP. , 2010, , .		3
63	Velocity control and vibration attenuation for a cart-pendulum system with Delayed Resonators. , 2009, , .		4
64	Linear approximant-based metaheuristic proportional-integral-derivative controller for a neutral time delay central heating system. Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering, 2009, 223, 605-618.	1.0	7
65	Efficient robust supervisors for discrete event systems. Science in China Series F: Information Sciences, 2009, 52, 1075-1083.	1.1	0
66	Dynamic disturbance rejection controllers for neutral time delay systems with application to a central heating system. Science in China Series F: Information Sciences, 2009, 52, 1084-1094.	1.1	8
67	On the Morgan's problem for neutral time delay systems via dynamic controllers with application to a test case central heating system. , 2009, , .		9
68	Dynamic measurement output feedback controllers for exact model matching and disturbance rejection of general linear neutral time delay systems. , 2009, , .		2
69	Solving robust control problems using robust pole placement in a disk. , 2009, , .		1
70	Two-stage robust control of substrate concentration for an activated sludge process. ISA Transactions, 2008, 47, 267-278.	5.7	19
71	Triangular Decoupling with simultaneous Disturbance Rejection for general linear time delay systems via measurement output feedback. , 2008, , .		6
72	On the robust disturbance rejection of Linear Parameter Varying uncertain systems. , 2008, , .		0

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73	Towards step-wise safe switching climate control for a greenhouse. , 2008, , .		0
74	Modular Implementation of Robust Supervisory Controllers for Discrete Event Systems. IEEE Transactions on Automatic Control, 2008, 53, 1559-1563.	5.7	7
75	Control of a constant turning force system via step-wise safe switching iterative feedback tuning. , 2008, , .		0
76	Robust multi condition flight controllers. , 2008, , .		1
77	Exact model matching of left invertible neutral time delay systems. International Journal of Modelling, Identification and Control, 2008, 3, 376.	0.2	12
78	Towards Analytic Solutions of Step-Wise Safe Switching for Known Affine-Linear Models. AIP Conference Proceedings, 2008, , .	0.4	3
79	A Metaheuristic Supervisory Scheme for Cooperative Manipulators. AIP Conference Proceedings, 2008, , .	0.4	1
80	Robustness Of A Robot Control Scheme For Liquid Transfer. , 2008, , 156-161.		5
81	A Process Application Of Step-Wise Safe Switching Control. , 2008, , 163-167.		1
82	Robust Lane Keeping for a Tractor-Trailer. , 2007, , .		0
83	A two stage robot control for liquid transfer. , 2007, , .		8
84	Model matching of SISO neutral time delay systems via output feedback. , 2007, , .		0
85	Robust controller design for active hydraulic suspension. , 2007, , .		0
86	Multivariable iterative feedback tuning - a step-wise safe switching approach. , 2007, , .		8
87	I/O decoupling and disturbance rejection for general linear time delay systems via measurement output feedback. , 2007, , .		6
88	Robust control techniques for hydraulic actuators. , 2007, , .		12
89	Output feedback decoupling of neutral time delay systems. , 2007, , .		6
90	A metaheuristic approach for controller design of multivariable processes. , 2007, , .		22

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91	A Metaheuristic Controller for Cooperative Manipulators. , 2007, , .		11
92	Robust input - output decoupling for singular systems with nonlinear uncertain structure. , 2007, , .		1
93	Robust dynamic control of Vector Discrete Event Systems. , 2007, , .		1
94	Logic-based switching controllers â€“ A stepwise safe switching approach. Information Sciences, 2007, 177, 2736-2755.	6.9	18
95	Dynamic controllers for I/O decoupling of neutral time delay systems with application to a coupled core nuclear reactor. , 2007, , .		7
96	Decision Support Systems in Agribusiness. , 2006, , .		0
97	Robust Tracking and Disturbance Attenuation Controllers for Automatic Steering. , 2006, , .		8
98	A Safe Set Point Supervisor for MIMO Processes. , 2006, , .		1
99	Robust Exact Model Matching for SISO systems via Finite Precision Dynamic Output Feedback. , 2006, , .		2
100	Robust PI Controllers for Command Following with Application to an Electropneumatic Actuator. , 2006, , .		7
101	Robust disturbance rejection via P-D state feedback Example for lane keeping of highway vehicles. Transactions of the Institute of Measurement and Control, 2006, 28, 121-143.	1.7	4
102	Decoupling Control Algorithms for 4WS Vehicles. , 2006, , .		4
103	Disturbance Rejection of General Linear Neutral Time Delay Systems, via Measurement Output Feedback. , 2006, , .		10
104	Robust Tracking for Time-Varying Uncertain Systems with Application to 4WS Vehicles. Industrial Electronics Society (IECON), Annual Conference of IEEE, 2006, , .	0.0	0
105	Robust Asymptotic Output Tracking for Four-Wheel-Steering Vehicles. , 2006, , .		3
106	Finite Precision Controllers for Robust Pole Assignment of Linear Systems with Nonlinear Uncertain Structure. , 2006, , .		1
107	A Simulated Annealing Controller for Sloshing Suppression in Liquid Transfer with Delayed Resonators. , 2006, , .		9
108	Towards Squeezing Forces Control for Cooperating Manipulators. , 2006, , .		4

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109	Robust PID Controller Design with Application to a Flight Actuator. Industrial Electronics Society (IECON), Annual Conference of IEEE, 2006, , .	0.0	3
110	Disturbance Rejection of Left-Invertible Neutral Time-Delay Systems. , 2006, , .		15
111	Recursive Synthesis of Robust Supervisory Controllers for Vector Discrete Event Systems. Industrial Electronics Society (IECON), Annual Conference of IEEE, 2006, , .	0.0	3
112	Robust Exact Model Matching for SISO systems via Finite Precision Dynamic Output Feedback. , 2006, , .		0
113	Robust PI Controllers for Command Following with Application to an Electropneumatic Actuator. , 2006, , .		0
114	Robust Morgan's Problem. Circuits, Systems, and Signal Processing, 2004, 23, 77-104.	2.0	3
115	Independent force and position control for cooperating manipulators. Journal of the Franklin Institute, 2003, 340, 435-460.	3.4	22
116	Model predictive temperature control towards improving cement precalcination. Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering, 2003, 217, 147-153.	1.0	1
117	Robust control of cars with front and rear wheel steering. IET Control Theory and Applications, 2002, 149, 394-404.	1.7	14
118	Indirect adaptive neural control for precalcination in cement plants. Mathematics and Computers in Simulation, 2002, 60, 325-334.	4.4	19
119	Robust triangular decoupling with simultaneous robust disturbance rejection. International Journal of Systems Science, 2001, 32, 1127-1137.	5.5	2
120	Robust triangular decoupling via output feedback. Journal of the Franklin Institute, 2000, 337, 11-20.	3.4	3
121	Numerical integration of fluid dynamics problems by discrete dynamical systems. Chaos, Solitons and Fractals, 2000, 11, 193-206.	5.1	1
122	Feedback controlling against chaos. Chaos, Solitons and Fractals, 2000, 11, 351-358.	5.1	17
123	Robust triangular decoupling with application to 4WS cars. IEEE Transactions on Automatic Control, 2000, 45, 344-352.	5.7	51
124	Partial model matching via static feedback (the multivariable case). IEEE Transactions on Automatic Control, 1999, 44, 386-392.	5.7	1
125	On Kalman's controllability and observability criteria for singular systems. Circuits, Systems, and Signal Processing, 1999, 18, 269-290.	2.0	19
126	Robust Disturbance Rejection for Left-Invertible Linear Systems With Nonlinear-Uncertain Structure. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 1999, 121, 218-225.	1.6	7

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127	Meeting transfer function requirements via static measurement output feedback. Journal of the Franklin Institute, 1998, 335, 661-677.	3.4	21
128	Robust regional stabilisation of an electropneumatic actuator. IET Control Theory and Applications, 1998, 145, 226-230.	1.7	9
129	P-D Feedback for Decoupling and Pole Assignment of Singular Systems. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 1998, 120, 378-388.	1.6	2
130	On the derivation of the nonlinear discrete equations numerically integrating the Euler PDEs. Discrete Dynamics in Nature and Society, 1998, 2, 41-51.	0.9	2
131	Noninteracting control of descriptor systems involving disturbances. IEEE Transactions on Automatic Control, 1997, 42, 542-548.	5.7	4
132	Robust Disturbance Rejection with Simultaneous Robust Input-Output Decoupling**This paper was not presented at any IFAC meeting. This paper was recommended for publication in revised form by Editor Peter Dorato.. Automatica, 1997, 33, 1415-1421.	5.0	6
133	Block Decoupling of Generalized State Space Systems**This paper was recommended for publication in revised form by Associate Editor J.M. Doin under the direction of Editor Ruth F. Curtain.. Automatica, 1997, 33, 1885-1897.	5.0	13
134	Input-output triangular decoupling and data sensitivity. Automatica, 1996, 32, 569-573.	5.0	22
135	Static controllers for magnetic suspension and balance systems. IET Control Theory and Applications, 1996, 143, 338-348.	1.7	9
136	Input-output decoupling for linear systems with nonlinear uncertain structure. Journal of the Franklin Institute, 1996, 333, 593-624.	3.4	41
137	Output feedback decoupling of linear systems with nonlinear uncertain structure. Journal of the Franklin Institute, 1996, 333, 625-629.	3.4	4
138	Decoupling of the longitudinal modes of advanced aircraft. Journal of Guidance, Control, and Dynamics, 1996, 19, 1184-1186.	2.8	2
139	Perfect output control for nonsquare generalised state space systems. IET Control Theory and Applications, 1995, 142, 119-122.	1.7	3
140	Output feedback decoupling of generalized state space systems. Systems and Control Letters, 1995, 24, 283-290.	2.3	10
141	Disturbance rejection of left-invertible generalized state space systems. IEEE Transactions on Automatic Control, 1994, 39, 185-190.	5.7	10
142	On the generic controllability of continuous generalized state-space systems. Automatica, 1993, 29, 527-530.	5.0	0
143	Exact model matching of generalized state space systems. Journal of Optimization Theory and Applications, 1993, 76, 57-85.	1.5	17
144	Generalised command matching for a robot gripping an inertial load. IEE Proceedings D: Control Theory and Applications, 1993, 140, 373.	0.4	3

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145	On the stability of generalized state-space systems. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 1992, 39, 1006-1010.	0.1	3
146	Observers for singular systems. IEEE Transactions on Automatic Control, 1992, 37, 1211-1215.	5.7	27
147	The decoupling of generalized state-space systems via state feedback. IEEE Transactions on Automatic Control, 1992, 37, 148-152.	5.7	21
148	On the pole assignment of generalised state space systems via state feedback. IEE Proceedings D: Control Theory and Applications, 1992, 139, 106.	0.4	2
149	Observer design for generalized state space systems with unknown inputs. Systems and Control Letters, 1992, 18, 309-321.	2.3	28
150	Disturbance rejection of left-invertible systems. Automatica, 1992, 28, 427-430.	5.0	23
151	A new approach to the decoupling problem of linear time-invariant systems. Journal of the Franklin Institute, 1992, 329, 347-369.	3.4	26
152	Command Matching for a Constraint Robot System. , 1992, , 183-191.		0
153	Unifying approach to observers for regular and singular systems. IEE Proceedings D: Control Theory and Applications, 1991, 138, 561.	0.4	11
154	Decoupling and pole assignment in generalised state space systems. IEE Proceedings D: Control Theory and Applications, 1991, 138, 547.	0.4	20
155	Intelligent hybrid industrial control. , 0, , .		9
156	Robust Output Command Tracking for Linear Systems with Nonlinear Uncertain Structure with Application to Flight Control. , 0, , .		8
157	A Polynomial Matrix Approach for the Solution of the Robust Morgan's Problem via Restricted state Feedback. , 0, , .		1
158	Iterative Feedback Tuning Safe Switching Controllers. , 0, , .		8
159	Prospects of Automation Agents in Agribusiness (Hop Industry) Decision Support Systems Related to Production, Marketing and Education. , 0, , .		0