

Fotis Koumboulis

List of Publications by Year in descending order

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159
papers

1,025
citations

516710

16
h-index

677142

22
g-index

159
all docs

159
docs citations

159
times ranked

254
citing authors

#	ARTICLE	IF	CITATIONS
1	Robust triangular decoupling with application to 4WS cars. IEEE Transactions on Automatic Control, 2000, 45, 344-352.	5.7	51
2	Input-output decoupling for linear systems with nonlinear uncertain structure. Journal of the Franklin Institute, 1996, 333, 593-624.	3.4	41
3	Observer design for generalized state space systems with unknown inputs. Systems and Control Letters, 1992, 18, 309-321.	2.3	28
4	Observers for singular systems. IEEE Transactions on Automatic Control, 1992, 37, 1211-1215.	5.7	27
5	A new approach to the decoupling problem of linear time-invariant systems. Journal of the Franklin Institute, 1992, 329, 347-369.	3.4	26
6	Disturbance rejection of left-invertible systems. Automatica, 1992, 28, 427-430.	5.0	23
7	Input-output triangular decoupling and data sensitivity. Automatica, 1996, 32, 569-573.	5.0	22
8	Independent force and position control for cooperating manipulators. Journal of the Franklin Institute, 2003, 340, 435-460.	3.4	22
9	A metaheuristic approach for controller design of multivariable processes. , 2007, , .		22
10	The decoupling of generalized state-space systems via state feedback. IEEE Transactions on Automatic Control, 1992, 37, 148-152.	5.7	21
11	Meeting transfer function requirements via static measurement output feedback. Journal of the Franklin Institute, 1998, 335, 661-677.	3.4	21
12	Decoupling and pole assignment in generalised state space systems. IEE Proceedings D: Control Theory and Applications, 1991, 138, 547.	0.4	20
13	Independent motion control of a tower crane through wireless sensor and actuator networks. ISA Transactions, 2016, 60, 312-320.	5.7	20
14	On Kalman's controllability and observability criteria for singular systems. Circuits, Systems, and Signal Processing, 1999, 18, 269-290.	2.0	19
15	Indirect adaptive neural control for precalcination in cement plants. Mathematics and Computers in Simulation, 2002, 60, 325-334.	4.4	19
16	Two-stage robust control of substrate concentration for an activated sludge process. ISA Transactions, 2008, 47, 267-278.	5.7	19
17	Logic-based switching controllers " A stepwise safe switching approach. Information Sciences, 2007, 177, 2736-2755.	6.9	18
18	Exact model matching of generalized state space systems. Journal of Optimization Theory and Applications, 1993, 76, 57-85.	1.5	17

#	ARTICLE	IF	CITATIONS
19	Feedback controlling against chaos. Chaos, Solitons and Fractals, 2000, 11, 351-358.	5.1	17
20	Supervisory control for flexibility of production manufacturing processes. , 2017, , .		17
21	Disturbance Rejection of Left Invertible Neutral Time Delay Systems. , 2006, , .		15
22	Robust control of cars with front and rear wheel steering. IET Control Theory and Applications, 2002, 149, 394-404.	1.7	14
23	Robust control of pneumatic clutch actuators using Simulated Annealing Techniques. , 2013, , .		14
24	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
25	Robust control techniques for hydraulic actuators. , 2007, , .		12
26	Exact model matching of left invertible neutral time delay systems. International Journal of Modelling, Identification and Control, 2008, 3, 376.	0.2	12
27	Unifying approach to observers for regular and singular systems. IEE Proceedings D: Control Theory and Applications, 1991, 138, 561.	0.4	11
28	A Metaheuristic Controller for Cooperative Manipulators. , 2007, , .		11
29	A three term controller for ride comfort improvement. , 2011, , .		11
30	Disturbance rejection of left-invertible generalized state space systems. IEEE Transactions on Automatic Control, 1994, 39, 185-190.	5.7	10
31	Output feedback decoupling of generalized state space systems. Systems and Control Letters, 1995, 24, 283-290.	2.3	10
32	Disturbance Rejection of General Linear Neutral Time Delay Systems, via Measurement Output Feedback. , 2006, , .		10
33	Mobile robots in singular time-delay form – Modeling and control. Journal of the Franklin Institute, 2016, 353, 160-179.	3.4	10
34	Static controllers for magnetic suspension and balance systems. IET Control Theory and Applications, 1996, 143, 338-348.	1.7	9
35	Robust regional stabilisation of an electropneumatic actuator. IET Control Theory and Applications, 1998, 145, 226-230.	1.7	9
36	Intelligent hybrid industrial control. , 0, , .		9

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37	A Simulated Annealing Controller for Sloshing Suppression in Liquid Transfer with Delayed Resonators. , 2006, , .		9
38	On the Morgan's problem for neutral time delay systems via dynamic controllers with application to a test case central heating system. , 2009, , .		9
39	I/O Decoupling with simultaneous Disturbance Rejection of general neutral time delay systems via a measurement output feedback dynamic controller. , 2013, , .		9
40	Switching Wireless Control for Longitudinal Quadrotor Maneuvers. Journal of Intelligent and Robotic Systems: Theory and Applications, 2021, 102, 1.	3.4	9
41	Robust Output Command Tracking for Linear Systems with Nonlinear Uncertain Structure with Application to Flight Control. , 0, , .		8
42	Iterative Feedback Tuning Safe Switching Controllers. , 0, , .		8
43	Robust Tracking and Disturbance Attenuation Controllers for Automatic Steering. , 2006, , .		8
44	A two stage robot control for liquid transfer. , 2007, , .		8
45	Multivariable iterative feedback tuning - a step-wise safe switching approach. , 2007, , .		8
46	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
47	Step-wise safe switching control of a constant turning force system. International Journal of Modelling, Identification and Control, 2011, 12, 191.	0.2	8
48	Common I/O Decoupling for Multi Model Descriptor Systems. IEEE Transactions on Automatic Control, 2016, 61, 783-788.	5.7	8
49	Function supervisors for storage systems. , 2018, , .		8
50	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
51	Robust PI Controllers for Command Following with Application to an Electropneumatic Actuator. , 2006, , .		7
52	Modular Implementation of Robust Supervisory Controllers for Discrete Event Systems. IEEE Transactions on Automatic Control, 2008, 53, 1559-1563.	5.7	7
53	Linear approximat-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
54	Towards dynamic controller design for Disturbance Rejection of MIMO neutral time delay systems. , 2011, , .		7

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55	Towards remote control of planar redundant robotic manipulators. , 2017, , .		7
56	Dynamic controllers for I/O decoupling of neutral time delay systems with application to a coupled core nuclear reactor. , 2007, , .		7
57	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
58	I/O decoupling and disturbance rejection for general linear time delay systems via measurement output feedback. , 2007, , .		6
59	Output feedback decoupling of neutral time delay systems. , 2007, , .		6
60	Triangular Decoupling with simultaneous Disturbance Rejection for general linear time delay systems via measurement output feedback. , 2008, , .		6
61	Robust PID controller for electro — Hydraulic actuators. , 2013, , .		6
62	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
63	Longitudinal flight multi condition control using robust PID controllers. , 2011, , .		5
64	Delayless dynamic controllers for Disturbance Rejection of general neutral time delay systems. , 2013, , .		5
65	Delayless Controllers for Triangular Decoupling with Simultaneous Disturbance Rejection of General Neutral Time Delay Systems. , 2018, , .		5
66	Robustness Of A Robot Control Scheme For Liquid Transfer. , 2008, , 156-161.		5
67	Output feedback decoupling of linear systems with nonlinear uncertain structure. Journal of the Franklin Institute, 1996, 333, 625-629.	3.4	4
68	Noninteracting control of descriptor systems involving disturbances. IEEE Transactions on Automatic Control, 1997, 42, 542-548.	5.7	4
69	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
70	Decoupling Control Algorithms for 4WS Vehicles. , 2006, , .		4
71	Towards Squeezing Forces Control for Cooperating Manipulators. , 2006, , .		4
72	Velocity control and vibration attenuation for a cart-pendulum system with Delayed Resonators. , 2009, , .		4

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73	A generalised control metaheuristic framework for industrial processes. International Journal of Automation and Control, 2010, 4, 218.	0.5	4
74	Metaheuristic control of substrate concentration for an activated sludge process. International Journal of Modelling, Identification and Control, 2010, 10, 117.	0.2	4
75	On the control of the liquid pouring process using cooperative manipulators. International Journal of Modelling, Identification and Control, 2011, 12, 173.	0.2	4
76	A two layer supervisor scheme for ring manufacturing production chains. , 2016, , .		4
77	Supervisory control for hierarchical switching of communication protocols. , 2017, , .		4
78	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
79	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
80	Generalised command matching for a robot gripping an inertial load. IEE Proceedings D: Control Theory and Applications, 1993, 140, 373.	0.4	3
81	Perfect output control for nonsquare generalised state space systems. IET Control Theory and Applications, 1995, 142, 119-122.	1.7	3
82	Robust triangular decoupling via output feedback. Journal of the Franklin Institute, 2000, 337, 11-20.	3.4	3
83	Robust Morgan's Problem. Circuits, Systems, and Signal Processing, 2004, 23, 77-104.	2.0	3
84	Robust Asymptotic Output Tracking for Four-Wheel-Steering Vehicles. , 2006, , .		3
85	Robust PID Controller Design with Application to a Flight Actuator. Industrial Electronics Society (IECON), Annual Conference of IEEE, 2006, , .	0.0	3
86	Recursive Synthesis of Robust Supervisory Controllers for Vector Discrete Event Systems. Industrial Electronics Society (IECON), Annual Conference of IEEE, 2006, , .	0.0	3
87	Towards Analytic Solutions of Step-Wise Safe Switching for Known Affine-Linear Models. AIP Conference Proceedings, 2008, , .	0.4	3
88	Triangular decoupling of non square general neutral time delay systems via dynamic measurement output feedback with application to an ASP. , 2010, , .		3
89	Disturbance rejection of general linear neutral time delay systems, via static delayless measurement output feedback controller. , 2011, , .		3
90	Robust control algorithms for a hydraulic actuator with variable displacement vane pump. , 2012, , .		3

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91	I/O Decoupling of general neutral time delay systems via delayless measurement output feedback dynamic controllers. , 2014, , .		3
92	Vehicle lateral control using a robust tracking controller based on vision look ahead system. , 2017, , .		3
93	Switching design for the observation of the biomass in alcoholic fermentation processes. , 2017, , .		3
94	Independent velocity control of the longitudinal motion of quadrotors*. , 2018, , .		3
95	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
96	Decoupling of the longitudinal modes of advanced aircraft. Journal of Guidance, Control, and Dynamics, 1996, 19, 1184-1186.	2.8	2
97	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
98	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
99	Robust triangular decoupling with simultaneous robust disturbance rejection. International Journal of Systems Science, 2001, 32, 1127-1137.	5.5	2
100	Robust Exact Model Matching for SISO systems via Finite Precision Dynamic Output Feedback. , 2006, , .		2
101	Dynamic measurement output feedback controllers for exact model matching and disturbance rejection of general linear neutral time delay systems. , 2009, , .		2
102	Temperature control of a neutral time delay central heating system via a two term disturbance compensator. , 2010, , .		2
103	Block decoupling of general neutral multi delay systems. , 2011, , .		2
104	Towards fault detection in singular Leontief production models. , 2011, , .		2
105	A switching observer design scheme for a double effect evaporator. , 2012, , .		2
106	Triangular decoupling with simultaneous disturbance rejection of general neutral time delay systems via measurement output feedback dynamic controllers. , 2013, , .		2
107	Exact model matching and disturbance rejection of linear singular multi-delay systems via measurement output feedback. , 2014, , .		2
108	A disturbance rejection controller for an anti-mine mobile robotic manipulator. , 2014, , .		2

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109	Robust PID Controller for a Pneumatic Actuator. MATEC Web of Conferences, 2016, 41, 02001.	0.2	2
110	Common I/O Triangular Decoupling for multi model descriptor systems. Systems and Control Letters, 2016, 97, 108-114.	2.3	2
111	Delayless dynamic controllers for exact model matching with simultaneous disturbance rejection of general neutral time delay systems. , 2016, , .		2
112	P-D state feedback controllers for common I/O decoupling of multi model descriptor systems. , 2016, , .		2
113	Modular supervisory control for mining process elevator systems. , 2017, , .		2
114	Delayless Controllers for Diagonal Decoupling and Disturbance Rejection of Time Delay Systems with Measurable and Non-measurable Disturbances. , 2020, , .		2
115	Wireless Longitudinal Motion Controller Design for Quadrotors. , 2020, , .		2
116	A Heuristic Control Algorithm for Robust Internal Model Control with Arbitrary Reference Model. Lecture Notes in Electrical Engineering, 2014, , 67-81.	0.4	2
117	On the Common Control Design of Robotic Manipulators Carrying Different Loads. Mechanisms and Machine Science, 2019, , 416-424.	0.5	2
118	Partial model matching via static feedback (the multivariable case). IEEE Transactions on Automatic Control, 1999, 44, 386-392.	5.7	1
119	Numerical integration of fluid dynamics problems by discrete dynamical systems. Chaos, Solitons and Fractals, 2000, 11, 193-206.	5.1	1
120	A Polynomial Matrix Approach for the Solution of the Robust Morgan's Problem via Restricted state Feedback. , 0, , .		1
121	A Safe Set Point Supervisor for MIMO Processes. , 2006, , .		1
122	Finite Precision Controllers for Robust Pole Assignment of Linear Systems with Nonlinear Uncertain Structure. , 2006, , .		1
123	Robust input - output decoupling for singular systems with nonlinear uncertain structure. , 2007, , .		1
124	Robust dynamic control of Vector Discrete Event Systems. , 2007, , .		1
125	Robust multi condition flight controllers. , 2008, , .		1
126	A Metaheuristic Supervisory Scheme for Cooperative Manipulators. AIP Conference Proceedings, 2008, , .	0.4	1

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127	Solving robust control problems using robust pole placement in a disk. , 2009, , .		1
128	A two stage control scheme towards stability and robustness for PMSMs with unknown load torque. , 2011, , .		1
129	On the disturbance decoupling of linear singular multi-delay systems. , 2012, , .		1
130	On the Exact Model Matching of linear singular multi-delay systems via measurement output feedback. , 2013, , .		1
131	Robust position tracking for a hydraulic servo system. , 2014, , .		1
132	Towards wireless control for a permanent magnet synchronous motor. , 2014, , .		1
133	Position control of a planar robot manipulator mounted on a VTOL aircraft. , 2017, , .		1
134	Block Decoupling and Disturbance Rejection for General Neutral Multi Delay Systems via Measurement Output Feedback Dynamic Controllers. , 2019, , .		1
135	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
136	On the P-D State Feedback Controller Design for the Common Triangular Decoupling of Multi Model Descriptor Systems*. , 2018, , .		1
137	A Process Application Of Step-Wise Safe Switching Control. , 2008, , 163-167.		1
138	On the generic controllability of continuous generalized state-space systems. Automatica, 1993, 29, 527-530.	5.0	0
139	Decision Support Systems in Agribusiness. , 2006, , .		0
140	Robust Tracking for Time-Varying Uncertain Systems with Application to 4WS Vehicles. Industrial Electronics Society (IECON), Annual Conference of IEEE, 2006, , .	0.0	0
141	Robust Lane Keeping for a Tractor-Trailer. , 2007, , .		0
142	Model matching of SISO neutral time delay systems via output feedback. , 2007, , .		0
143	Robust controller design for active hydraulic suspension. , 2007, , .		0
144	On the robust disturbance rejection of Linear Parameter Varying uncertain systems. , 2008, , .		0

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145	Towards step-wise safe switching climate control for a greenhouse. , 2008, , .		0
146	Control of a constant turning force system via step-wise safe switching iterative feedback tuning. , 2008, , .		0
147	Efficient robust supervisors for discrete event systems. Science in China Series F: Information Sciences, 2009, 52, 1075-1083.	1.1	0
148	Fault detection for Sequential Interindustry Models. , 2012, , .		0
149	Towards an L_1 PID controller design for ride comfort improvement. , 2014, , .		0
150	Robust stabilizability algorithms with application to force control of a hydraulic actuator. , 2015, , .		0
151	Automata-Based Programming for the Development of a Web based Application. , 2016, , .		0
152	A flow supervisory control scheme in generic modular form. , 2018, , .		0
153	Motion Control for Constraint Mobile Robotic Manipulators in Singular Time Delay Form. , 2020, , .		0
154	Trim point transitions via I/O decoupling controllers for 6DOF quadrotors. , 2021, , .		0
155	Robust Exact Model Matching for SISO systems via Finite Precision Dynamic Output Feedback. , 2006, , .		0
156	Robust PI Controllers for Command Following with Application to an Electropneumatic Actuator. , 2006, , .		0
157	Prospects of Automation Agents in Agribusiness (Hop Industry) Decision Support Systems Related to Production, Marketing and Education. , 0, , .		0
158	Command Matching for a Constraint Robot System. , 1992, , 183-191.		0
159	A Robust Control Scheme for an Experimental Hydraulic System. , 2021, , .		0