Giuseppe Conte

List of Publications by Year
in descending order

127 papers	1,368 citations	430874 18 h-index	501196 28 g-index
131 all docs	131 docs citations	131 times ranked	403 citing authors

#	Article	IF	Citations
1	Disturbance decoupling by state feedback for uncertain impulsive linear systems. International Journal of Robust and Nonlinear Control, 2021, 31, 4729-4743.	3.7	1
2	Output regulation of discrete-time systems with time-varying delays. , 2021, , .		0
3	A structural approach to unknown inputs observation for switching linear systems. Automatica, 2021, 129, 109572.	5.0	8
4	Disturbance decoupling and model matching problems for discrete-time systems with time-varying delays. Nonlinear Analysis: Hybrid Systems, 2021, 41, 101043.	3.5	8
5	Unknown-Input State Observers for Hybrid Dynamical Structures. Lecture Notes in Control and Information Sciences, 2020, , 167-201.	1.0	3
6	Preliminary Study of a Novel Magnetic Sensor for Safety in Industrial Robotics. , 2019, , .		0
7	Unknown-Input State Observers with Minimal Order for Linear Impulsive Systems. , 2019, , .		4
8	Disturbance Decoupling in Nonlinear Impulsive Systems. , 2019, , .		1
9	Results in the Structural-Geometric Approach to Switching Linear Systems. , 2019, , .		0
10	Disturbance Decoupling with Stability for Impulsive Switching Linear Systems. IFAC-PapersOnLine, 2019, 52, 19-24.	0.9	3
11	Measurement dynamic feedback output regulation in hybrid linear systems with state jumps. International Journal of Robust and Nonlinear Control, 2018, 28, 416-436.	3.7	14
12	Development and Experimental Tests of a ROS Multi-agent Structure for Autonomous Surface Vehicles. Journal of Intelligent and Robotic Systems: Theory and Applications, 2018, 92, 705-718.	3.4	12
13	Asymptotic Model Matching for Hybrid Linear Systems with State Jumps. , 2018, , .		5
14	Asymptotic Model Matching for LPV Systems. IFAC-PapersOnLine, 2018, 51, 173-178.	0.9	4
15	Output-Feedback Model Matching with Strong Stability for Hybrid Linear Systems with Periodic State Jumps. , 2018, , .		4
16	Output regulation by error dynamic feedback in hybrid systems with periodic state jumps. Automatica, 2017, 81, 322-334.	5.0	20
17	Disturbance Decoupling in Hybrid Linear Systems With State Jumps. IEEE Transactions on Automatic Control, 2017, 62, 6552-6559.	5.7	17
18	The unknown input observation problem for switching systems with dwell-time. , 2017, , .		5

#	Article	IF	Citations
19	Unknown Input Observers for Hybrid Linear Systems with State Jumps. IFAC-PapersOnLine, 2017, 50, 6458-6464.	0.9	13
20	Output Regulation by Error Dynamic Feedback in Hybrid Linear Systems with State Jumps. IFAC-PapersOnLine, 2017, 50, 10808-10815.	0.9	2
21	Control and regulation problems in switching systems. , 2016, , .		2
22	Experimental testing of a cooperative ASV-ROV multi-agent system. IFAC-PapersOnLine, 2016, 49, 347-354.	0.9	7
23	Designing the NGC system of a small ASV for tracking underwater targets. Robotics and Autonomous Systems, 2016, 76, 46-57.	5.1	23
24	Disturbance Decoupling with Stability for Linear Impulsive Systems. IFAC-PapersOnLine, 2016, 49, 1-6.	0.9	10
25	Model matching with strong stability in switched linear systems. Systems and Control Letters, 2016, 97, 98-107.	2.3	15
26	ISME research trends: Marine robotics for emergencies at sea. , 2016, , .		2
27	Disturbance Decoupling With Closed-Loop Modes Stability in Switched Linear Systems. IEEE Transactions on Automatic Control, 2016, 61, 3115-3121.	5.7	26
28	Necessary and sufficient conditions for asymptotic model matching of switching linear systems. Automatica, 2016, 64, 294-304.	5.0	24
29	The Disturbance Decoupling Problem with Quadratic Stability for LPV Systems. IFAC-PapersOnLine, 2015, 48, 1-6.	0.9	9
30	Output regulation by error dynamic feedback in linear time-invariant hybrid dynamical systems. , 2015, , .		10
31	The disturbance decoupling problem for jumping hybrid systems. , 2015, , .		18
32	Robust controlled invariant subspaces and disturbance decoupling for uncertain switched linear systems. IMA Journal of Mathematical Control and Information, 2015, , dnv037.	1.7	2
33	ROS multi-agent structure for autonomous surface vehicles. , 2015, , .		11
34	A design tool for modelling and sizing of energy production/storage home system. , 2014, , .		0
35	Output-feedback model matching with strong stability in continuous-time switched linear systems. , 2014, , .		11
36	A note on feedback stabilizability of switching systems under arbitrary switching. , 2014, , .		3

#	ARTICLE	IF	CITATIONS
37	The disturbance decoupling problem with stability for switching dynamical systems. Systems and Control Letters, 2014, 70, 1-7.	2.3	21
38	Model matching problems for switching linear systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 1501-1506.	0.4	14
39	Disturbance Decoupling with Stability in Continuous-Time Switched Linear Systems Under Dwell-Time Switching. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 164-169.	0.4	15
40	ROAD project: Robotics for assisted diving. , 2014, , .		3
41	Innovative strategy and process for underwater data gathering and results elaboration. , 2014, , .		7
42	An innovation process in the marking of lasts for the footwear industry. International Journal of Advanced Manufacturing Technology, 2013, 69, 1605-1617.	3.0	1
43	The output regulation problem with stability for linear switching systems: A geometric approach. Automatica, 2013, 49, 2953-2962.	5.0	42
44	Disturbance decoupling via state feedback for uncertain switched linear systems. , 2013, , .		4
45	A geometric approach to output regulation for discrete-time switched linear systems. , 2013, , .		11
46	A Geometric Approach to Output Regulation for Linear Switching Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 172-177.	0.4	12
47	Geoposition data aided 3D documentation of archaeological and biological sites. Proceedings of Meetings on Acoustics, 2013, , .	0.3	2
48	Assisted guidance system for Micro ROV in underwater data gathering missions.. , 2012, , .		10
49	Modeling and control of a low-cost ASV. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 429-434.	0.4	8
50	A geometric approach to the general autonomous regulator problem in the time-delay framework. Systems and Control Letters, 2012, 61, 602-608.	2.3	7
51	Building simulation/emulation environments for home automation systems. , 2011, , .		2
52	Stability Analysis of a Nonlinear Plant with Limited Information. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 7198-7203.	0.4	0
53	E-field Sensors and Sensor-based Control Strategies for M/M Safe Cooperation. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 8070-8075.	0.4	3
54	A necessary condition for disturbance decoupling with quadratic stability in switched linear systems. , 2011, , .		18

#	Article	IF	Citations
55	A Feedback Scheme for Missions Managing in Underwater Archeology. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 229-234.	0.4	1
56	A Model-Based Control Scheme with Observer and Sampled Information. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 309-316.	0.4	3
57	Stabilization of nonlinear plants with sampled information. , 2010, , .		2
58	Resource management in home automation systems. , 2010, , .		2
59	A model-based control scheme for general nonlinear plants with sampled information. , 2010, , .		3
60	The Rendezvous Problem With Discontinuous Control Policies. IEEE Transactions on Automatic Control, 2010, 55, 279-283.	5.7	16
61	ROBOTICS TOOLS FOR UNDERWATER ARCHAEOLOGY. , 2010, , .		0
62	Innovative technology for studying growth areas of Posidonia oceanica. , 2009, , .		11
63	An application of E-field sensors in industrial robotics. , 2009, , .		3
64	Underwater vehicle technology in the European Research Project VENUS. Underwater Technology, 2009, 28, 175-185.	0.3	7
65	Optimising Home Automation Systems: A comparative study on Tabu Search and Evolutionary Algorithms. , 2009, , .		12
66	A model based control scheme with sampled information. , 2009, , .		7
67	Monitoring groundwater characteristics by means of a multi-parametric probe and sampling device. , 2009, , .		2
68	Multi-Agent System Theory for Modelling a Home Automation System. Lecture Notes in Computer Science, 2009, , 585-593.	1.3	14
69	Parameter tuning in distributed Home Automation Systems: towards a tabu search approach. , 2008, , .		6
70	Underwater archeology missions design for data gathering automation. , 2008, , .		2
71	The autonomous regulator problem for linear, time-delay systems: A geometric approach. , 2008, , .		2
72	A Notion of Zero Dynamics for Linear, Time-delay System. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 1255-1260.	0.4	3

#	Article	IF	Citations
73	A simulation environment for the analysis of home automation systems. , 2007, , .		13
74	On convergence conditions for rendezvous. , 2007, , .		4
75	Inversion and Tracking Problems for Time Delay Linear Systems. , 2007, , 267-284.		13
76	Innovative technologies in underwater archaeology: field experience, open problems, and research lines. Chemistry and Ecology, 2006, 22, S383-S396.	1.6	6
77	Unknown Input Observers and Residual Generators for Linear Time Delay Systems. , 2006, , 15-33.		8
78	Combustion control in domestic boilers using an oxygen sensor. , 2006, , .		4
79	Acoustic Mapping and Localization of an ROV. , 2006, , .		2
80	Combining MPC and LD Analysis in Supply Chain Inventory Control Problem. , 2006, , .		2
81	Experimentation of melting kinetics control in a convective food thawing process. IEEE Transactions on Control Systems Technology, 2005, 13, 826-831.	5.2	3
82	Visual-feedback positioning of a ROV. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2004, 37, 391-396.	0.4	4
83	Remotely operated vehicle depth control. Control Engineering Practice, 2003, 11, 453-459.	5.5	61
84	The fundamental problem of residual generation for linear time delay systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2003, 36, 155-160.	0.4	1
85	Functional controllability and right invertibility for systems over rings. IMA Journal of Mathematical Control and Information, 2002, 19, 95-102.	1.7	5
86	Inversion Problems for Time-Delay Systems via Systems Over Rings. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2001, 34, 419-424.	0.4	2
87	Relative Degree and Structure for SISO Systems Over Rings. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2000, 33, 147-152.	0.4	0
88	Systems over rings: Geometric theory and applications. Annual Reviews in Control, 2000, 24, 113-124.	7.9	20
89	Systems Over Rings: Geometric Theory and Applications. Annual Reviews in Control, 2000, 24, 113-124.	7.9	15
90	Robust nonlinear motion control for AUVs. IEEE Robotics and Automation Magazine, 1999, 6, 33-38, 62.	2.0	22

#	Article	IF	Citations
91	OBSTACLE AVOIDANCE IN UNDERWATER BOTTOM NAVIGATION. , 1999, , .		1
92	The block decoupling problem for systems over a ring. IEEE Transactions on Automatic Control, 1998, 43, 1600-1604.	5.7	37
93	Systems Over Rings: Geometric Theory and Applications. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1998, 31, 175-186.	0.4	3
94	A system theoretic approach to automatic data analysis for inspections of underwater structures. International Journal of Systems Science, 1997, 28, 737-748.	5.5	4
95	Exact output control for a family of linear plants with parameter uncertainties. Automatica, 1996, 32, 217-222.	5.0	2
96	Model Matching Problem for Systems over a Ring and Applications to Delay-Differential Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1995, 28, 319-323.	0.4	14
97	Non-Holonomic Motion Planning Using Distance Field. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1995, 28, 91-96.	0.4	5
98	Hierarchical path planning in a multi-robot environment with a simple navigation function. IEEE Transactions on Systems, Man, and Cybernetics, 1995, 25, 651-654.	0.9	28
99	The Disturbance Decoupling Problem for Systems over a Ring. SIAM Journal on Control and Optimization, 1995, 33, 750-764.	2.1	109
100	NON-HOLONOMIC MOTION PLANNING USING DISTANCE FIELD. , 1995, , 91-96.		2
101	Robust disturbance decoupling problem for parameter dependent families of linear systems. Automatica, 1993, 29, 475-478.	5.0	14
102	CAD-based generation of collision-free paths for robotic manipulators. Control Engineering Practice, 1993, 1, 1069-1074.	5.5	3
103	The differential field associated to a general analytic nonlinear dynamical system. IEEE Transactions on Automatic Control, 1993, 38, 1120-1124.	5.7	10
104	Invertibility and inversion of linear periodic systems. Automatica, 1992, 28, 645-648.	5.0	9
105	Computing the maximum robust controlled invariant subspace. Systems and Control Letters, 1991, 17, 131-135.	2.3	36
106	Poles and zeros of matrices of rational functions. Linear Algebra and Its Applications, 1991, 157, 113-139.	0.9	18
107	Zero structures at infinity of linear periodic systems. Circuits, Systems, and Signal Processing, 1991, 10, 91-100.	2.0	9
108	Model Matching and Factorization for Nonlinear Systems: A Structural Approach. SIAM Journal on Control and Optimization, 1991, 29, 769-785.	2.1	48

#	ARTICLE	IF	CITATIONS
109	Invertibility and Inversion of Linear Periodic Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1990, 23, 283-286.	0.4	3
110	On the zeros and poles of a transfer function. Linear Algebra and Its Applications, 1989, 122-124, 123-144.	0.9	35
111	Geometric and algebraic structure at infinity of discrete time linear periodic systems. Linear Algebra and Its Applications, 1989, 122-124, 245-271.	0.9	16
112	Zeros, poles and modules in linear system theory. , 1989, , 79-100.		3
113	Fixed Poles in Transfer Function Equations. SIAM Journal on Control and Optimization, 1988, 26, 356-368.	2.1	26
114	A geometric approach to the theory of 2-D systems. IEEE Transactions on Automatic Control, 1988, 33, 946-950.	5.7	22
115	On the causal factorization problem. IEEE Transactions on Automatic Control, 1985, 30, 811-813.	5.7	13
116	On the minimum delay problem. Systems and Control Letters, 1984, 5, 213-215.	2.3	5
117	Infinite zero module and infinite pole module. , 1984, , 302-315.		23
118	Systems over a Principal Ideal Domain. A Polynomial Model Approach. SIAM Journal on Control and Optimization, 1982, 20, 112-124.	2.1	42
119	Generalized state space realizations of non-proper rational transfer functions. Systems and Control Letters, 1982, 1, 270-276.	2.3	20
120	On lattice-like properties of orthoquaternary categories. Annali Dell'Universita Di Ferrara, 1977, 23, 153-163.	1.3	0
121	Rational matrices: counting the poles and zeros. , 0, , .		4
122	Modelling and simulation of underwater vehicles. , 0, , .		16
123	Global robust tracking with disturbance attenuation for unmanned underwater vehicles. , 0, , .		6
124	Invertibility and inversion for systems over rings and applications to delay differential systems. , 0, , .		6
125	Unknown input observers for linear delay systems: a geometric approach. , 0, , .		7
126	Evaluation of hydrodynamics parameters of a uuv. A preliminary study. , 0, , .		9

#	ARTICLE	IF	CITATIONS
127	The tracking problem for MIMO, linear, delay-differential systems. , 0, , .		0