Gianmaria De Tommasi

List of Publications by Year
in descending order

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208 papers	3,682 citations	159585 30 h-index	175258 52 g-index
219 all docs	219 docs citations	219 times ranked	2191 citing authors

#	Article	IF	Citations
1	Assessment of Multilevel Intransitive Non-Interference for Discrete Event Systems. , 2022, 6, 349-354.		2
2	DIII-D research advancing the physics basis for optimizing the tokamak approach to fusion energy. Nuclear Fusion, 2022, 62, 042024.	3.5	11
3	Finite-Time Stabilization of Linear Systems With Unknown Control Direction via Extremum Seeking. IEEE Transactions on Automatic Control, 2022, 67, 5594-5601.	5.7	5
4	Physics of runaway electrons with shattered pellet injection at JET. Plasma Physics and Controlled Fusion, 2022, 64, 034002.	2.1	7
5	An optimization-based approach to assess non-interference in labeled and bounded Petri net systems. Nonlinear Analysis: Hybrid Systems, 2022, 44, 101153.	3.5	2
6	A Deep Deterministic Policy Gradient Learning Approach to Missile Autopilot Design. IEEE Access, 2022, 10, 19685-19696.	4.2	8
7	Constrained Reference Tracking via Structured Inputâ€“Output Finite-Time Stability. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 7411-7421.	9.3	2
8	Plasma physics and control studies planned in JT-60SA for ITER and DEMO operations and risk mitigation. Plasma Physics and Controlled Fusion, 2022, 64, 054004.	2.1	6
9	Necessary and Sufficient Condition to Assess Initial-State-Opacity in Live Bounded and Reversible Discrete Event Systems. , 2022, 6, 2683-2688.		3
10	Annular finite-time stability analysis and synthesis of stochastic linear time-varying systems. International Journal of Control, 2021, 94, 2252-2263.	1.9	16
11	Noninterference Enforcement via Supervisory Control in Bounded Petri Nets. IEEE Transactions on Automatic Control, 2021, 66, 3653-3666.	5.7	12
12	Assessment of Bisimulation Non-Interference in Discrete Event Systems Modelled With Bounded Petri Nets. , 2021, 5, 1151-1156.		5
13	A L2â€gain robust PIDâ€like protocol for timeâ€varying output formationâ€containment of multiâ€agent systems with external disturbance and communication delays. IET Control Theory and Applications, 2021, 15, 1169-1184.	2.1	14
14	Stabilizing elongated plasmas using extremum seeking: the ITER tokamak case study. , 2021, , .		3
15	ITER plasma control system final designÂand preparation for first plasma. Nuclear Fusion, 2021, 61, 106036.	3.5	12
16	Virtualizing Real-Time Processing Units in Multi-Processor Systems-on-Chip. , 2021, , .		2
17	Management of the ITER PCS Design Using a System-Engineering Approach. IEEE Transactions on Plasma Science, 2020, 48, 1768-1778.	1.3	8
18	Remote experiment with WEST from ITER Remote Experimentation Centre. Fusion Engineering and Design, 2020, 154, 111554.	1.9	5

#	Article	IF	Citations
19	Model-based MIMO isoflux plasma shape control at the EAST tokamak: experimental results. , 2020, , .		1
20	Rapid prototyping of a model-based fuel injection and ignition control systems. , 2020, , .		0
21	On the Numerical Solution of Differential Linear Matrix Inequalities. Journal of Optimization Theory and Applications, 2020, 185, 540-553.	1.5	9
22	Advances in the physics studies for the JT-60SA tokamak exploitation and research plan. Plasma Physics and Controlled Fusion, 2020, 62, 014009.	2.1	18
23	A reduced basis approach to plasma equilibrium reconstruction in tokamaks. Fusion Engineering and Design, 2020, 154, 111520.	1.9	2
24	Assessment of controllers and scenario control performance for ITER first plasma. Fusion Engineering and Design, 2019, 146, 1853-1857.	1.9	7
25	Work-flow process from simulation to operation for the Plasma Control System for the ITER first plasma. Fusion Engineering and Design, 2019, 146, 1446-1449.	1.9	4
26	Plasma shape control assessment for JT-60SA using the CREATE tools. Fusion Engineering and Design, 2019, 146, 1773-1777.	1.9	7
27	On the finite-time boundedness of linear systems. Automatica, 2019, 107, 454-466.	5.0	24
28	Annular Finite-Time Stability and Stabilization of Continuous-Time Markov Jump Linear Systems. , 2019, , .		2
29	Requirements management support for the ITER Plasma Control System in view of first plasma operations. Fusion Engineering and Design, 2019, 146, 447-449.	1.9	2
30	Overview of the JET preparation for deuteriumâ€“tritium operation with the ITER like-wall. Nuclear Fusion, 2019, 59, 112021.	3.5	87
31	MIMO shape control at the EAST tokamak: Simulations and experiments. Fusion Engineering and Design, 2019, 146, 1282-1285.	1.9	5
32	Plasma Magnetic Control in Tokamak Devices. Journal of Fusion Energy, 2019, 38, 406-436.	1.2	35
33	Runaway electron beam control. Plasma Physics and Controlled Fusion, 2019, 61, 014036.	2.1	26
34	A Variant of the Generalized Assignment Problem for Reliable Allocation of Sensor Measurements in a Diagnostic System. AIRO Springer Series, 2019, , 71-83.	0.6	0
35	Integrated plasma control for long pulse advanced plasma discharges on EAST. Fusion Engineering and Design, 2018, 128, 90-94.	1.9	6
36	Status of the ITER remote experimentation centre. Fusion Engineering and Design, 2018, 128, 158-162.	1.9	8

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37	MDSplus remote data access over high latency connections. Fusion Engineering and Design, 2018, 128, 68-74.	1.9	3
38	Model-based plasma vertical stabilization and position control at EAST. Fusion Engineering and Design, 2018, 129, 152-157.	1.9	4
39	Model predictive control of ITER plasma current and shape using singular-value decomposition. Fusion Engineering and Design, 2018, 129, 158-163.	1.9	9
40	Non-Interference Enforcement in Bounded Petri Nets. , 2018, , .		5
41	Non-interference assessment in bounded Petri nets via Integer Linear Programming. , 2018, , .		6
42	Efficient diagnosability assessment via ILP optimization: a railway benchmark. , 2018, , .		15
43	Annular Finite-Time Stabilization of Stochastic Linear Time-Varying Systems. , 2018, , .		10
44	Automatic generation of formal models for diagnosability of DES. , 2018, , .		0
45	An algebraic characterization of language-based opacity in labeled Petri nets. IFAC-PapersOnLine, 2018, 51, 329-336.	0.9	17
46	Hybrid architecture for vehicle lateral collision avoidance. IET Control Theory and Applications, 2018, 12, 1941-1950.	2.1	10
47	Simulation suite for plasma magnetic control at EAST tokamak. Fusion Engineering and Design, 2018, 133, 19-31.	1.9	9
48	Towards a preliminary design of the ITER plasma control system architecture. Fusion Engineering and Design, 2017, 115, 33-38.	1.9	14
49	Finite-Time Stabilizability, Detectability, and Dynamic Output Feedback Finite-Time Stabilization of Linear Systems. IEEE Transactions on Automatic Control, 2017, 62, 6521-6528.	5.7	25
50	Control-oriented tools for the design and validation of the JT-60SA magnetic control system. Control Engineering Practice, 2017, 63, 81-90.	5.5	9
51	Efficient generation of energetic ions in multi-ion plasmas by radio-frequency heating. Nature Physics, 2017, 13, 973-978.	16.7	73
52	Preliminary exception handling analysis for the ITER plasma control system. Fusion Engineering and Design, 2017, 123, 541-545.	1.9	13
53	Diagnostics, data acquisition and control of the divertor test tokamak experiment. Fusion Engineering and Design, 2017, 122, 365-374.	1.9	5
54	Overview of progress in European medium sized tokamaks towards an integrated plasma-edge/wall solution ^a. Nuclear Fusion, 2017, 57, 102014.	3.5	23

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55	Overview of the JET results in support to ITER. Nuclear Fusion, 2017, 57, 102001.	3.5	150
56	Vehicle collision avoidance via control over a finite-time horizon. , 2017, , .		2
57	Overview of the preliminary design of the ITER plasma control system. Nuclear Fusion, 2017, 57, 125001.	3.5	23
58	ITER-like vertical stabilization system for the east Tokamak. Nuclear Fusion, 2017, 57, 086039.	3.5	30
59	Physics and operation oriented activities in preparation of the JT-60SA tokamak exploitation. Nuclear Fusion, 2017, 57, 085001.	3.5	20
60	Work-in-Progress: Real-Time Containers for Large-Scale Mixed-Criticality Systems. , 2017, , .		6
61	On plasma vertical stabilization at EAST tokamak. , 2017, , .		4
62	Overview of the TCV tokamak program: scientific progress and facility upgrades. Nuclear Fusion, 2017, 57, 102011.	3.5	52
63	Robust Plasma Vertical Stabilization in Tokamak Devices via Multi-objective Optimization. Springer Proceedings in Mathematics and Statistics, 2017, , 305-314.	0.2	4
64	Finite time estimation of a linear system based on sampled measurement through impulsive observer. , 2016, , .		4
65	The Mixed Robust /FTS Control Problem Analysis and State Feedback Control. Asian Journal of Control, 2016, 18, 828-841.	3.0	7
66	New conditions for annular finite-time stability of linear systems. , 2016, , .		15
67	Finite-time stabilizability and detectability of linear systems. Part II: Design of observer based output feedback finite-time stabilizing controllers. , 2016, , .		0
68	Finite-time stabilizability and detectability of linear systems. Part I: Necessary and sufficient conditions for the existence of output feedback finite-time stabilizing controllers. , 2016, , .		1
69	Plasma current and shape control for ITER using fast online MPC. , 2016, , .		1
70	Finite-time state estimation of sampled output impulsive dynamical linear system. , 2016, , .		1
71	ITER plasma current and shape control using MPC. , 2016, , .		5
72	A MIMO architecture for integrated control of plasma shape and flux expansion for the EAST tokamak. , 2016, , .		6

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73	Inputâ€“output finite-time stabilization of impulsive linear systems: Necessary and sufficient conditions. Nonlinear Analysis: Hybrid Systems, 2016, 19, 93-106.	3.5	39
74	Improving the performance of the JET Shape Controller. Fusion Engineering and Design, 2015, 96-97, 668-671.	1.9	3
75	Design and nonlinear validation of the ITER magnetic control system. , 2015, , .		6
76	Model based optimization and estimation of the field map during the breakdown phase in the ITER tokamak. , 2015, , .		5
77	Development environments for Tokamak plasma control. , 2015, , .		1
78	Implementation strategy for the ITER plasma control system. Fusion Engineering and Design, 2015, 96-97, 720-723.	1.9	7
79	New conditions for the finite-time stability of stochastic linear time-varying systems. , 2015, , .		16
80	A proposal for the demonstration of the ITER Remote Experimentation Centre with collaborating European Tokamaks. , 2015, , .		0
81	Overview of the JET results. Nuclear Fusion, 2015, 55, 104001.	3.5	50
82	From use cases of the Joint European Torus towards integrated commissioning requirements of the ITER tokamak. Fusion Engineering and Design, 2015, 96-97, 672-675.	1.9	4
83	Perspectives for the high field approach in fusion research and advances within the Ignitor Program. Nuclear Fusion, 2015, 55, 053011.	3.5	12
84	Optimal allocation of the diagnostic signals for the ITER magnetic control system. , 2015, , .		3
85	ITER-like current ramps in JET with ILW: experiments, modelling and consequences for ITER. Nuclear Fusion, 2015, 55, 013009.	3.5	5
86	Finite-time control of switching linear systems: The uncertain resetting times case. International Journal of Robust and Nonlinear Control, 2015, 25, 2547-2560.	3.7	9
87	EAST alternative magnetic configurations: modelling and first experiments. Nuclear Fusion, 2015, 55, 083005.	3.5	48
88	Conceptual architecture of the plant system controller for the magnetics diagnostic of the ITER tokamak. Fusion Engineering and Design, 2015, 96-97, 887-890.	1.9	10
89	Necessary and sufficient conditions for input-output finite-time stability of impulsive dynamical systems. , 2015, , .		4
90	Current status of the European contribution to the Remote Data Access System of the ITER Remote Experimentation Centre. Fusion Engineering and Design, 2015, 96-97, 769-771.	1.9	6

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91	Sensors selection for K-diagnosability of Petri nets via Integer Linear Programming. , 2015, , .		6
92	The ITER Plasma Control System Simulation Platform. Fusion Engineering and Design, 2015, 96-97, 716-719.	1.9	23
93	Integration of Simulink, MARTe and MDSplus for rapid development of real-time applications. Fusion Engineering and Design, 2015, 96-97, 645-648.	1.9	6
94	An improved model for the oPtImal Measurement Probes Allocation tool. Fusion Engineering and Design, 2015, 96-97, 970-973.	1.9	2
95	Inputâ€output finiteâ€time stabilisation of linear systems with input constraints. IET Control Theory and Applications, 2014, 8, 1429-1438.	2.1	26
96	Shape Control with the eXtreme Shape Controller During Plasma Current Ramp-Up and Ramp-Down at the JET Tokamak. Journal of Fusion Energy, 2014, 33, 149-157.	1.2	11
97	Plasma position and current control system enhancements for the JET ITER-like wall. Fusion Engineering and Design, 2014, 89, 233-242.	1.9	10
98	Improving magnetic plasma control for ITER. Fusion Engineering and Design, 2014, 89, 2477-2488.	1.9	2
99	Finite-Time Stability and Control. Lecture Notes in Control and Information Sciences, 2014, , .	1.0	131
100	PIMPA: A Tool for oPtImal Measurement Probes Allocation. IEEE Transactions on Plasma Science, 2014, 42, 976-983.	1.3	8
101	A Real-Time Architecture for the Identification of Faulty Magnetic Sensors in the JET Tokamak. IEEE Transactions on Nuclear Science, 2014, 61, 1228-1235.	2.0	7
102	A New Generation of Real-Time Systems in the JET Tokamak. IEEE Transactions on Nuclear Science, 2014, 61, 711-719.	2.0	13
103	Architectural concept for the ITER Plasma Control System. Fusion Engineering and Design, 2014, 89, 512-517.	1.9	15
104	A simulation environment for ITER PCS development. Fusion Engineering and Design, 2014, 89, 518-522.	1.9	18
105	Control of resistive wall modes in tokamak plasmas. Control Engineering Practice, 2014, 24, 15-24.	5.5	13
106	Event generation and simulation of exception handling with the ITER PCSSP. Fusion Engineering and Design, 2014, 89, 523-528.	1.9	12
107	FTS Analysis Via PQLFs. Lecture Notes in Control and Information Sciences, 2014, , 67-87.	1.0	0
108	Robustness Issues for IDLSs. Lecture Notes in Control and Information Sciences, 2014, , 127-139.	1.0	0

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109	Controller Design for the Finite-Time Stabilization of IDLSs. Lecture Notes in Control and Information Sciences, 2014, , 115-125.	1.0	0
110	First experimental results with the Current Limit Avoidance System at the JET tokamak. Fusion Engineering and Design, 2013, 88, 400-407.	1.9	3
111	Overview of the JET results with the ITER-like wall. Nuclear Fusion, 2013, 53, 104002.	3.5	70
112	Modeling of MARTe-Based Real-Time Applications With SysML. IEEE Transactions on Industrial Informatics, 2013, 9, 2407-2415.	11.3	15
113	New developments, plasma physics regimes and issues for the Ignitor experiment. Nuclear Fusion, 2013, 53, 104013.	3.5	22
114	Vertical stabilization of ITER plasma using explicit model predictive control. Fusion Engineering and Design, 2013, 88, 1082-1086.	1.9	14
115	Necessary and sufficient conditions for finite-time stability of impulsive dynamical linear systems. Automatica, 2013, 49, 2546-2550.	5.0	149
116	Stabilization of impulsive quadratic systems over polytopic sets. Nonlinear Analysis: Hybrid Systems, 2013, 7, 16-27.	3.5	3
117	Shape control with the XSC during plasma current ramp-up and ramp-down at the JET tokamak. , 2013, , .		3
118	Simultaneous control of modes with multiple toroidal periodicity in tokamak plasmas. , 2012, , .		0
119	Decentralized K-Diagnosability of Petri Nets. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 214-220.	0.4	5
120	Inputâ€“Output Finite-Time Stability of Linear Systems: Necessary and Sufficient Conditions. IEEE Transactions on Automatic Control, 2012, 57, 3051-3063.	5.7	120
121	A Software Tool for the Design of the Current Limit Avoidance System at the JET Tokamak. IEEE Transactions on Plasma Science, 2012, 40, 2056-2064.	1.3	5
122	On <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si4.gif" display="inline" overflow="scroll"><mml:mi mathvariant="script">K</mml:mi></mml:math>-diagnosability of Petri nets via integer linear programming. Automatica, 2012, 48, 2047-2058.	5.0	95
123	Input-output finite-time stabilization with constrained control inputs. , 2012, , .		3
124	Exploitation of modularity in the JET tokamak vertical stabilization system. Control Engineering Practice, 2012, 20, 846-856.	5.5	15
125	A new generation of real-time systems in the JET tokamak. , 2012, , .		5
126	A real-time architecture for the identification of faulty magnetic sensors in the JET tokamak. , 2012, , .		1

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127	State constrained control of impulsive quadratic systems in integrated pest management. Computers and Electronics in Agriculture, 2012, 82, 117-121.	7.7	9
128	Necessary and sufficient conditions for Input-Output Finite-Time stability of linear time-varying systems. , 2011, , .		4
129	A Survey of Recent MARTe Based Systems. IEEE Transactions on Nuclear Science, 2011, 58, 1482-1489.	2.0	38
130	Control of Elongated Plasma in Presence of ELMs in the JET Tokamak. IEEE Transactions on Nuclear Science, 2011, 58, 1497-1502.	2.0	19
131	Input-output finite-time stabilization of LTV systems via dynamic output feedback. , 2011, , .		4
132	Robust vertical control of ITER plasmas via static output feedback. , 2011, , .		3
133	Performance Comparison of EPICS IOC and MARTe in a Hard Real-Time Control Application. IEEE Transactions on Nuclear Science, 2011, 58, 3162-3166.	2.0	14
134	Identification of Petri nets using timing information. , 2011, , .		6
135	Real-Time Systems in Tokamak Devices. A Case Study: The JET Tokamak. IEEE Transactions on Nuclear Science, 2011, 58, 1420-1426.	2.0	10
136	Overview of modelling activities for Plasma Control Upgrade in JET. Fusion Engineering and Design, 2011, 86, 1030-1033.	1.9	17
137	A MARTe based simulator for the JET Vertical Stabilization system. Fusion Engineering and Design, 2011, 86, 1026-1029.	1.9	4
138	Performance assessment of a dynamic current allocator for the JET eXtreme Shape Controller. Fusion Engineering and Design, 2011, 86, 1057-1060.	1.9	5
139	Modeling tools for the ITER Central Interlock System. Fusion Engineering and Design, 2011, 86, 1137-1140.	1.9	18
140	First plasma operation of the enhanced JET vertical stabilisation system. Fusion Engineering and Design, 2011, 86, 539-543.	1.9	19
141	Current, Position, and Shape Control in Tokamaks. Fusion Science and Technology, 2011, 59, 486-498.	1.1	20
142	Stability Analysis of Impulsive Nonlinear Quadratic Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 5706-5711.	0.4	2
143	State Constrained Control of Impulsive Quadratic Systems in Integrated Pest Management. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 2907-2911.	0.4	0
144	Sufficient Conditions for Robust Input-Output Finite-Time Stability of Linear Systems in Presence of Uncertainties. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 7643-7647.	0.4	1

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145	Input to Output Finite-Time Stabilization of Discrete-Time Linear Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 156-161.	0.4	11
146	Robust finiteâ€time stability of impulsive dynamical linear systems subject to normâ€bounded uncertainties. International Journal of Robust and Nonlinear Control, 2011, 21, 1080-1092.	3.7	60
147	Nonlinear dynamic allocator for optimal input/output performance trade-off: Application to the JET tokamak shape controller. Automatica, 2011, 47, 981-987.	5.0	32
148	Finite-time stabilization of impulsive dynamical linear systems. Nonlinear Analysis: Hybrid Systems, 2011, 5, 89-101.	3.5	69
149	Estimation of the domain of attraction for a class of hybrid systems. Nonlinear Analysis: Hybrid Systems, 2011, 5, 573-582.	3.5	12
150	Finite-time stabilization of switching linear systems with uncertain resetting times. , 2011, , .		3
151	On dynamic input allocation for set-point regulation of the JET tokamak plasma shape. , 2011, , .		1
152	Input-output finite-time stability of switching systems with uncertainties on the resetting times. , 2011, , .		8
153	Exploitation of modularity in the JET tokamak Vertical Stabilization system. , 2011, , .		3
154	Plasma Vertical Stabilization in the ITER Tokamak via Constrained Static Output Feedback. IEEE Transactions on Control Systems Technology, 2011, 19, 376-381.	5.2	39
155	Inputâ€“output finite-time stabilisation of a class of hybrid systems via static output feedback. International Journal of Control, 2011, 84, 1055-1066.	1.9	34
156	Current, Position, and Shape Control in Tokamaks. Fusion Science and Technology, 2011, , .	1.1	3
157	Diagnosability of Labeled Petri Nets via Integer Linear Programming. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 71-77.	0.4	1
158	Input-output finite-time stabilization for a class of hybrid systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 336-341.	0.4	14
159	Rapid Prototyping of Safety System for Nuclear Risks of the ITER Tokamak. IEEE Transactions on Plasma Science, 2010, 38, 1662-1669.	1.3	12
160	Inputâ€“output finite time stabilization of linear systems. Automatica, 2010, 46, 1558-1562.	5.0	149
161	Rapid prototyping of the Central Safety System for Nuclear Risk in ITER. Fusion Engineering and Design, 2010, 85, 545-548.	1.9	3
162	Continuous data recording on fast real-time systems. Fusion Engineering and Design, 2010, 85, 374-377.	1.9	6

#	Article	IF	Citations
163	The PCU JET Plasma Vertical Stabilization control system. Fusion Engineering and Design, 2010, 85, 438-442.	1.9	17
164	The Software Architecture of the New Vertical-Stabilization System for the JET Tokamak. IEEE Transactions on Plasma Science, 2010, 38, 2465-2473.	1.3	17
165	Performance comparison of EPICS IOC and MARTe in a Hard Real-Time control application. , 2010, , .		2
166	MARTe: A Multiplatform Real-Time Framework. IEEE Transactions on Nuclear Science, 2010, 57, 479-486.	2.0	123
167	A flexible architecture for the rapid prototyping of control systems in fusion experiments. , 2010, , .		0
168	Using magnetic diagnostics to extrapolate operational limits in elongated tokamak plasmas. , 2010, , .		1
169	A survey of recent MARTe based systems. , 2010, , .		2
170	Real-time systems in tokamak devices. A case study: The JET tokamak. , 2010, , .		6
171	Trading output performance for input allocation: application to the JET tokamak shape controller. , 2009, , .		5
172	ITER vertical stabilization system. Fusion Engineering and Design, 2009, 84, 394-397.	1.9	9
173	An Efficient Approach for Online Diagnosis of Discrete Event Systems. IEEE Transactions on Automatic Control, 2009, 54, 748-759.	5.7	145
174	Input-output finite-time stability of linear systems. , 2009, , .		18
175	Design of the Plasma Position and Shape Control in the ITER Tokamak Using In-Vessel Coils. IEEE Transactions on Plasma Science, 2009, 37, 1324-1331.	1.3	27
176	Improving real-time identification of Petri Nets using timing information. , 2009, , .		1
177	Jet operations and plasma control: A plasma control system that is safe and flexible in a manageable way.. , 2009, , .		6
178	Sufficient Conditions for Finite-Time Stability of Impulsive Dynamical Systems. IEEE Transactions on Automatic Control, 2009, 54, 861-865.	5.7	143
179	Online Diagnosis of Discrete Events Systems based on Petri Nets and Integer Linear Programming. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 111-116.	0.4	1
180	Fault diagnosis and prognosis in Petri Nets by using a single generalized marking estimation. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 1396-1401.	0.4	7

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181	The JET PCU project: An international plasma control project. Fusion Engineering and Design, 2008, 83, 202-206.	1.9	35
182	Finite-time stabilization of impulsive dynamical linear systems. , 2008, , .		3
183	Online diagnosis of discrete event systems based on Petri nets. , 2008, , .		7
184	A two-time-scale dynamic-model approach for magnetic and kinetic profile control in advanced tokamak scenarios on JET. Nuclear Fusion, 2008, 48, 106001.	3.5	73
185	Plasma position and shape control in ITER using in-vessel coils. , 2008, , .		4
186	Sufficient conditions for diagnosability of Petri nets. , 2008, , .		15
187	Performing fault diagnosis for PNs using g-markings: A benchmark case. , 2008, , .		1
188	Plasma Strike-Point Sweeping on JET Tokamak With the eXtreme Shape Controller. IEEE Transactions on Plasma Science, 2008, 36, 834-840.	1.3	17
189	Real-Time Profile Control for Advanced Tokamak Operation. AIP Conference Proceedings, 2008, , .	0.4	3
190	Fast digital link for a tokamak current source control. , 2008, , .		1
191	On finite-time stability of state dependent impulsive dynamical systems. , 2008, , .		6
192	An educational open-source tool for the design of IEC 61131-3 compliant automation software. , 2008, , .		0
193	Integrated Plasma Shape and Boundary Flux Control on JET Tokamak. Fusion Science and Technology, 2008, 53, 789-805.	1.1	11
194	An efficient approach for on-line diagnosis of discrete event systems. , 2007, , .		10
195	Improving on-line fault diagnosis for discrete event systems using time. , 2007, , .		8
196	XSC Tools: A Software Suite for Tokamak Plasma Shape Control Design and Validation. IEEE Transactions on Plasma Science, 2007, 35, 709-723.	1.3	34
197	Magnetic configuration control of ITER plasmas. Fusion Engineering and Design, 2007, 82, 1138-1143.	1.9	5
198	The Joint European Torus. IEEE Control Systems, 2006, 26, 64-78.	0.8	61

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199	A flexible software for real-time control in nuclear fusion experiments. Control Engineering Practice, 2006, 14, 1387-1393.	5.5	18
200	Graphic tools for plasma shape control design and validation. , 2006, , .		1
201	A FLEXIBLE SOFTWARE FOR REAL-TIME CONTROL APPLICATIONS IN FUSION EXPERIMENTS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2005, 38, 61-66.	0.4	1
202	XSC plasma control: Tool development for the session leader. Fusion Engineering and Design, 2005, 74, 521-525.	1.9	8
203	The system architecture of the new JET Shape Controller. Fusion Engineering and Design, 2005, 74, 587-591.	1.9	5
204	Design, implementation and test of the XSC extreme shape controller in JET. Fusion Engineering and Design, 2005, 74, 627-632.	1.9	34
205	A flexible and reusable software for real-time control applications at JET. Fusion Engineering and Design, 2005, 74, 515-520.	1.9	3
206	A model-based technique for integrated real-time profile control in the JET tokamak. Plasma Physics and Controlled Fusion, 2005, 47, 155-183.	2.1	69
207	Overview of JET results. Nuclear Fusion, 2003, 43, 1540-1554.	3.5	38
208	Controlling extremely shaped plasmas in the JET tokamak. , 0, , .		5