Gianmaria De Tommasi

List of Publications by Year
in descending order

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	Overview of the JET results in support to ITER. Nuclear Fusion, 2017, 57, 102001.	3.5	150
2	Input–output finite time stabilization of linear systems. Automatica, 2010, 46, 1558-1562.	5.0	149
3	Necessary and sufficient conditions for finite-time stability of impulsive dynamical linear systems. Automatica, 2013, 49, 2546-2550.	5.0	149
4	An Efficient Approach for Online Diagnosis of Discrete Event Systems. IEEE Transactions on Automatic Control, 2009, 54, 748-759.	5.7	145
5	Sufficient Conditions for Finite-Time Stability of Impulsive Dynamical Systems. IEEE Transactions on Automatic Control, 2009, 54, 861-865.	5.7	143
6	Finite-Time Stability and Control. Lecture Notes in Control and Information Sciences, 2014, , .	1.0	131
7	MARTe: A Multiplatform Real-Time Framework. IEEE Transactions on Nuclear Science, 2010, 57, 479-486.	2.0	123
8	Input–Output Finite-Time Stability of Linear Systems: Necessary and Sufficient Conditions. IEEE Transactions on Automatic Control, 2012, 57, 3051-3063.	5.7	120
9	On $\mathscr{K}$-diagnosability of Petri nets via integer linear programming. Automatica, 2012, 48, 2047-2058.	5.0	95
10	Overview of the JET preparation for deuterium–tritium operation with the ITER like-wall. Nuclear Fusion, 2019, 59, 112021.	3.5	87
11	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
12	Efficient generation of energetic ions in multi-ion plasmas by radio-frequency heating. Nature Physics, 2017, 13, 973-978.	16.7	73
13	Overview of the JET results with the ITER-like wall. Nuclear Fusion, 2013, 53, 104002.	3.5	70
14	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
15	Finite-time stabilization of impulsive dynamical linear systems. Nonlinear Analysis: Hybrid Systems, 2011, 5, 89-101.	3.5	69
16	The Joint European Torus. IEEE Control Systems, 2006, 26, 64-78.	0.8	61
17	Robust finite–time stability of impulsive dynamical linear systems subject to norm–bounded uncertainties. International Journal of Robust and Nonlinear Control, 2011, 21, 1080-1092.	3.7	60
18	Overview of the TCV tokamak program: scientific progress and facility upgrades. Nuclear Fusion, 2017, 57, 102011.	3.5	52

#	Article	IF	Citations
19	Overview of the JET results. Nuclear Fusion, 2015, 55, 104001.	3.5	50
20	EAST alternative magnetic configurations: modelling and first experiments. Nuclear Fusion, 2015, 55, 083005.	3.5	48
21	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
22	Input–output finite-time stabilization of impulsive linear systems: Necessary and sufficient conditions. Nonlinear Analysis: Hybrid Systems, 2016, 19, 93-106.	3.5	39
23	Overview of JET results. Nuclear Fusion, 2003, 43, 1540-1554.	3.5	38
24	A Survey of Recent MARTe Based Systems. IEEE Transactions on Nuclear Science, 2011, 58, 1482-1489.	2.0	38
25	The JET PCU project: An international plasma control project. Fusion Engineering and Design, 2008, 83, 202-206.	1.9	35
26	Plasma Magnetic Control in Tokamak Devices. Journal of Fusion Energy, 2019, 38, 406-436.	1.2	35
27	Design, implementation and test of the XSC extreme shape controller in JET. Fusion Engineering and Design, 2005, 74, 627-632.	1.9	34
28	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
29	Input–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
30	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
31	ITER-like vertical stabilization system for the east Tokamak. Nuclear Fusion, 2017, 57, 086039.	3.5	30
32	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
33	Input–output finite–time stabilisation of linear systems with input constraints. IET Control Theory and Applications, 2014, 8, 1429-1438.	2.1	26
34	Runaway electron beam control. Plasma Physics and Controlled Fusion, 2019, 61, 014036.	2.1	26
35	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
36	On the finite-time boundedness of linear systems. Automatica, 2019, 107, 454-466.	5.0	24

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37	The ITER Plasma Control System Simulation Platform. Fusion Engineering and Design, 2015, 96-97, 716-719.	1.9	23
38	Overview of progress in European medium sized tokamaks towards an integrated plasma-edge/wall solution [a]. Nuclear Fusion, 2017, 57, 102014.	3.5	23
39	Overview of the preliminary design of the ITER plasma control system. Nuclear Fusion, 2017, 57, 125001.	3.5	23
40	New developments, plasma physics regimes and issues for the Ignitor experiment. Nuclear Fusion, 2013, 53, 104013.	3.5	22
41	Current, Position, and Shape Control in Tokamaks. Fusion Science and Technology, 2011, 59, 486-498.	1.1	20
42	Physics and operation oriented activities in preparation of the JT-60SA tokamak exploitation. Nuclear Fusion, 2017, 57, 085001.	3.5	20
43	Control of Elongated Plasma in Presence of ELMs in the JET Tokamak. IEEE Transactions on Nuclear Science, 2011, 58, 1497-1502.	2.0	19
44	First plasma operation of the enhanced JET vertical stabilisation system. Fusion Engineering and Design, 2011, 86, 539-543.	1.9	19
45	A flexible software for real-time control in nuclear fusion experiments. Control Engineering Practice, 2006, 14, 1387-1393.	5.5	18
46	Input-output finite-time stability of linear systems. , 2009, , .		18
47	Modeling tools for the ITER Central Interlock System. Fusion Engineering and Design, 2011, 86, 1137-1140.	1.9	18
48	A simulation environment for ITER PCS development. Fusion Engineering and Design, 2014, 89, 518-522.	1.9	18
49	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
50	Plasma Strike-Point Sweeping on JET Tokamak With the eXtreme Shape Controller. IEEE Transactions on Plasma Science, 2008, 36, 834-840.	1.3	17
51	The PCU JET Plasma Vertical Stabilization control system. Fusion Engineering and Design, 2010, 85, 438-442.	1.9	17
52	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
53	Overview of modelling activities for Plasma Control Upgrade in JET. Fusion Engineering and Design, 2011, 86, 1030-1033.	1.9	17
54	An algebraic characterization of language-based opacity in labeled Petri nets. IFAC-PapersOnLine, 2018, 51, 329-336.	0.9	17

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55	New conditions for the finite-time stability of stochastic linear time-varying systems. , 2015, , .		16
56	Annular finite-time stability analysis and synthesis of stochastic linear time-varying systems. International Journal of Control, 2021, 94, 2252-2263.	1.9	16
57	Sufficient conditions for diagnosability of Petri nets. , 2008, , .		15
58	Exploitation of modularity in the JET tokamak vertical stabilization system. Control Engineering Practice, 2012, 20, 846-856.	5.5	15
59	Modeling of MARTe-Based Real-Time Applications With SysML. IEEE Transactions on Industrial Informatics, 2013, 9, 2407-2415.	11.3	15
60	Architectural concept for the ITER Plasma Control System. Fusion Engineering and Design, 2014, 89, 512-517.	1.9	15
61	New conditions for annular finite-time stability of linear systems. , 2016, , .		15
62	Efficient diagnosability assessment via ILP optimization: a railway benchmark. , 2018, , .		15
63	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
64	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
65	Vertical stabilization of ITER plasma using explicit model predictive control. Fusion Engineering and Design, 2013, 88, 1082-1086.	1.9	14
66	Towards a preliminary design of the ITER plasma control system architecture. Fusion Engineering and Design, 2017, 115, 33-38.	1.9	14
67	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
68	A New Generation of Real-Time Systems in the JET Tokamak. IEEE Transactions on Nuclear Science, 2014, 61, 711-719.	2.0	13
69	Control of resistive wall modes in tokamak plasmas. Control Engineering Practice, 2014, 24, 15-24.	5.5	13
70	Preliminary exception handling analysis for the ITER plasma control system. Fusion Engineering and Design, 2017, 123, 541-545.	1.9	13
71	Rapid Prototyping of Safety System for Nuclear Risks of the ITER Tokamak. IEEE Transactions on Plasma Science, 2010, 38, 1662-1669.	1.3	12
72	Estimation of the domain of attraction for a class of hybrid systems. Nonlinear Analysis: Hybrid Systems, 2011, 5, 573-582.	3.5	12

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73	Event generation and simulation of exception handling with the ITER PCSSP. Fusion Engineering and Design, 2014, 89, 523-528.	1.9	12
74	Perspectives for the high field approach in fusion research and advances within the Ignitor Program. Nuclear Fusion, 2015, 55, 053011.	3.5	12
75	Noninterference Enforcement via Supervisory Control in Bounded Petri Nets. IEEE Transactions on Automatic Control, 2021, 66, 3653-3666.	5.7	12
76	ITER plasma control system final designÂand preparation for first plasma. Nuclear Fusion, 2021, 61, 106036.	3.5	12
77	Integrated Plasma Shape and Boundary Flux Control on JET Tokamak. Fusion Science and Technology, 2008, 53, 789-805.	1.1	11
78	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
79	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
80	DIII-D research advancing the physics basis for optimizing the tokamak approach to fusion energy. Nuclear Fusion, 2022, 62, 042024.	3.5	11
81	An efficient approach for on-line diagnosis of discrete event systems. , 2007, , .		10
82	Real-Time Systems in Tokamak Devices. A Case Study: The JET Tokamak. IEEE Transactions on Nuclear Science, 2011, 58, 1420-1426.	2.0	10
83	Plasma position and current control system enhancements for the JET ITER-like wall. Fusion Engineering and Design, 2014, 89, 233-242.	1.9	10
84	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
85	Annular Finite-Time Stabilization of Stochastic Linear Time-Varying Systems. , 2018, , .		10
86	Hybrid architecture for vehicle lateral collision avoidance. IET Control Theory and Applications, 2018, 12, 1941-1950.	2.1	10
87	ITER vertical stabilization system. Fusion Engineering and Design, 2009, 84, 394-397.	1.9	9
88	State constrained control of impulsive quadratic systems in integrated pest management. Computers and Electronics in Agriculture, 2012, 82, 117-121.	7.7	9
89	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
90	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

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91	Model predictive control of ITER plasma current and shape using singular-value decomposition. Fusion Engineering and Design, 2018, 129, 158-163.	1.9	9
92	Simulation suite for plasma magnetic control at EAST tokamak. Fusion Engineering and Design, 2018, 133, 19-31.	1.9	9
93	On the Numerical Solution of Differential Linear Matrix Inequalities. Journal of Optimization Theory and Applications, 2020, 185, 540-553.	1.5	9
94	XSC plasma control: Tool development for the session leader. Fusion Engineering and Design, 2005, 74, 521-525.	1.9	8
95	Improving on-line fault diagnosis for discrete event systems using time. , 2007, , .		8
96	Input-output finite-time stability of switching systems with uncertainties on the resetting times. , 2011, , .		8
97	PIMPA: A Tool for oPtImal Measurement Probes Allocation. IEEE Transactions on Plasma Science, 2014, 42, 976-983.	1.3	8
98	Status of the ITER remote experimentation centre. Fusion Engineering and Design, 2018, 128, 158-162.	1.9	8
99	Management of the ITER PCS Design Using a System-Engineering Approach. IEEE Transactions on Plasma Science, 2020, 48, 1768-1778.	1.3	8
100	A Deep Deterministic Policy Gradient Learning Approach to Missile Autopilot Design. IEEE Access, 2022, 10, 19685-19696.	4.2	8
101	Online diagnosis of discrete event systems based on Petri nets. , 2008, , .		7
102	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
103	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
104	Implementation strategy for the ITER plasma control system. Fusion Engineering and Design, 2015, 96-97, 720-723.	1.9	7
105	The Mixed Robust /FTS Control Problem Analysis and State Feedback Control. Asian Journal of Control, 2016, 18, 828-841.	3.0	7
106	Assessment of controllers and scenario control performance for ITER first plasma. Fusion Engineering and Design, 2019, 146, 1853-1857.	1.9	7
107	Plasma shape control assessment for JT-60SA using the CREATE tools. Fusion Engineering and Design, 2019, 146, 1773-1777.	1.9	7
108	Physics of runaway electrons with shattered pellet injection at JET. Plasma Physics and Controlled Fusion, 2022, 64, 034002.	2.1	7

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109	On finite-time stability of state dependent impulsive dynamical systems. , 2008, , .		6
110	Jet operations and plasma control: A plasma control system that is safe and flexible in a manageable way.. , 2009, , .		6
111	Continuous data recording on fast real-time systems. Fusion Engineering and Design, 2010, 85, 374-377.	1.9	6
112	Real-time systems in tokamak devices. A case study: The JET tokamak. , 2010, , .		6
113	Identification of Petri nets using timing information. , 2011, , .		6
114	Design and nonlinear validation of the ITER magnetic control system. , 2015, , .		6
115	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
116	Sensors selection for K-diagnosability of Petri nets via Integer Linear Programming. , 2015, , .		6
117	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
118	A MIMO architecture for integrated control of plasma shape and flux expansion for the EAST tokamak. , 2016, , .		6
119	Work-in-Progress: Real-Time Containers for Large-Scale Mixed-Criticality Systems. , 2017, , .		6
120	Integrated plasma control for long pulse advanced plasma discharges on EAST. Fusion Engineering and Design, 2018, 128, 90-94.	1.9	6
121	Non-interference assessment in bounded Petri nets via Integer Linear Programming. , 2018, , .		6
122	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
123	Controlling extremely shaped plasmas in the JET tokamak. , 0, , .		5
124	The system architecture of the new JET Shape Controller. Fusion Engineering and Design, 2005, 74, 587-591.	1.9	5
125	Magnetic configuration control of ITER plasmas. Fusion Engineering and Design, 2007, 82, 1138-1143.	1.9	5
126	Trading output performance for input allocation: application to the JET tokamak shape controller. , 2009, , .		5

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127	Performance assessment of a dynamic current allocator for the JET eXtreme Shape Controller. Fusion Engineering and Design, 2011, 86, 1057-1060.	1.9	5
128	Decentralized K-Diagnosability of Petri Nets. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 214-220.	0.4	5
129	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
130	A new generation of real-time systems in the JET tokamak. , 2012, , .		5
131	Model based optimization and estimation of the field map during the breakdown phase in the ITER tokamak. , 2015, , .		5
132	ITER-like current ramps in JET with ILW: experiments, modelling and consequences for ITER. Nuclear Fusion, 2015, 55, 013009.	3.5	5
133	ITER plasma current and shape control using MPC. , 2016, , .		5
134	Diagnostics, data acquisition and control of the divertor test tokamak experiment. Fusion Engineering and Design, 2017, 122, 365-374.	1.9	5
135	Non-Interference Enforcement in Bounded Petri Nets. , 2018, , .		5
136	MIMO shape control at the EAST tokamak: Simulations and experiments. Fusion Engineering and Design, 2019, 146, 1282-1285.	1.9	5
137	Remote experiment with WEST from ITER Remote Experimentation Centre. Fusion Engineering and Design, 2020, 154, 111554.	1.9	5
138	Assessment of Bisimulation Non-Interference in Discrete Event Systems Modelled With Bounded Petri Nets. , 2021, 5, 1151-1156.		5
139	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
140	Plasma position and shape control in ITER using in-vessel coils. , 2008, , .		4
141	Necessary and sufficient conditions for Input-Output Finite-Time stability of linear time-varying systems. , 2011, , .		4
142	Input-output finite-time stabilization of LTV systems via dynamic output feedback. , 2011, , .		4
143	A MARTe based simulator for the JET Vertical Stabilization system. Fusion Engineering and Design, 2011, 86, 1026-1029.	1.9	4
144	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

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145	Necessary and sufficient conditions for input-output finite-time stability of impulsive dynamical systems. , 2015, , .		4
146	Finite time estimation of a linear system based on sampled measurement through impulsive observer. , 2016, , .		4
147	On plasma vertical stabilization at EAST tokamak. , 2017, , .		4
148	Model-based plasma vertical stabilization and position control at EAST. Fusion Engineering and Design, 2018, 129, 152-157.	1.9	4
149	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
150	Robust Plasma Vertical Stabilization in Tokamak Devices via Multi-objective Optimization. Springer Proceedings in Mathematics and Statistics, 2017, , 305-314.	0.2	4
151	A flexible and reusable software for real-time control applications at JET. Fusion Engineering and Design, 2005, 74, 515-520.	1.9	3
152	Finite-time stabilization of impulsive dynamical linear systems. , 2008, , .		3
153	Real-Time Profile Control for Advanced Tokamak Operation. AIP Conference Proceedings, 2008, , .	0.4	3
154	Rapid prototyping of the Central Safety System for Nuclear Risk in ITER. Fusion Engineering and Design, 2010, 85, 545-548.	1.9	3
155	Robust vertical control of ITER plasmas via static output feedback. , 2011, , .		3
156	Finite-time stabilization of switching linear systems with uncertain resetting times. , 2011, , .		3
157	Exploitation of modularity in the JET tokamak Vertical Stabilization system. , 2011, , .		3
158	Input-output finite-time stabilization with constrained control inputs. , 2012, , .		3
159	First experimental results with the Current Limit Avoidance System at the JET tokamak. Fusion Engineering and Design, 2013, 88, 400-407.	1.9	3
160	Stabilization of impulsive quadratic systems over polytopic sets. Nonlinear Analysis: Hybrid Systems, 2013, 7, 16-27.	3.5	3
161	Shape control with the XSC during plasma current ramp-up and ramp-down at the JET tokamak. , 2013, , .		3
162	Improving the performance of the JET Shape Controller. Fusion Engineering and Design, 2015, 96-97, 668-671.	1.9	3

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163	Optimal allocation of the diagnostic signals for the ITER magnetic control system. , 2015, , .		3
164	MDSplus remote data access over high latency connections. Fusion Engineering and Design, 2018, 128, 68-74.	1.9	3
165	Stabilizing elongated plasmas using extremum seeking: the ITER tokamak case study. , 2021, , .		3
166	Current, Position, and Shape Control in Tokamaks. Fusion Science and Technology, 2011, , .	1.1	3
167	Necessary and Sufficient Condition to Assess Initial-State-Opacity in Live Bounded and Reversible Discrete Event Systems. , 2022, 6, 2683-2688.		3
168	Performance comparison of EPICS IOC and MARTe in a Hard Real-Time control application. , 2010, , .		2
169	A survey of recent MARTe based systems. , 2010, , .		2
170	Stability Analysis of Impulsive Nonlinear Quadratic Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 5706-5711.	0.4	2
171	Improving magnetic plasma control for ITER. Fusion Engineering and Design, 2014, 89, 2477-2488.	1.9	2
172	An improved model for the oPtImal Measurement Probes Allocation tool. Fusion Engineering and Design, 2015, 96-97, 970-973.	1.9	2
173	Vehicle collision avoidance via control over a finite-time horizon. , 2017, , .		2
174	Annular Finite-Time Stability and Stabilization of Continuous-Time Markov Jump Linear Systems. , 2019, , .		2
175	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
176	A reduced basis approach to plasma equilibrium reconstruction in tokamaks. Fusion Engineering and Design, 2020, 154, 111520.	1.9	2
177	Assessment of Multilevel Intransitive Non-Interference for Discrete Event Systems. , 2022, 6, 349-354.		2
178	Virtualizing Real-Time Processing Units in Multi-Processor Systems-on-Chip. , 2021, , .		2
179	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
180	Constrained Reference Tracking via Structured Input–Output Finite-Time Stability. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 7411-7421.	9.3	2

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181	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
182	Graphic tools for plasma shape control design and validation. , 2006, , .		1
183	Performing fault diagnosis for PNs using g-markings: A benchmark case. , 2008, , .		1
184	Fast digital link for a tokamak current source control. , 2008, , .		1
185	Improving real-time identification of Petri Nets using timing information. , 2009, , .		1
186	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
187	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
188	Using magnetic diagnostics to extrapolate operational limits in elongated tokamak plasmas. , 2010, , .		1
189	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
190	On dynamic input allocation for set-point regulation of the JET tokamak plasma shape. , 2011, , .		1
191	A real-time architecture for the identification of faulty magnetic sensors in the JET tokamak. , 2012, , .		1
192	Development environments for Tokamak plasma control. , 2015, , .		1
193	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
194	Plasma current and shape control for ITER using fast online MPC. , 2016, , .		1
195	Finite-time state estimation of sampled output impulsive dynamical linear system. , 2016, , .		1
196	Model-based MIMO isoflux plasma shape control at the EAST tokamak: experimental results. , 2020, , .		1
197	An educational open-source tool for the design of IEC 61131-3 compliant automation software. , 2008, , .		0
198	A flexible architecture for the rapid prototyping of control systems in fusion experiments. , 2010, , .		0

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199	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
200	Simultaneous control of modes with multiple toroidal periodicity in tokamak plasmas. , 2012, , .		0
201	A proposal for the demonstration of the ITER Remote Experimentation Centre with collaborating European Tokamaks. , 2015, , .		0
202	Finite-time stabilizability and detectability of linear systems. Part II: Design of observer based output feedback finite-time stabilizing controllers. , 2016, , .		0
203	Automatic generation of formal models for diagnosability of DES. , 2018, , .		0
204	Rapid prototyping of a model-based fuel injection and ignition control systems. , 2020, , .		0
205	FTS Analysis Via PQLFs. Lecture Notes in Control and Information Sciences, 2014, , 67-87.	1.0	0
206	Robustness Issues for IDLSs. Lecture Notes in Control and Information Sciences, 2014, , 127-139.	1.0	0
207	Controller Design for the Finite-Time Stabilization of IDLSs. Lecture Notes in Control and Information Sciences, 2014, , 115-125.	1.0	0
208	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