

Thomas Parisini

List of Publications by Year in Descending Order

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Version: 2024-04-09

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

145 papers	2,019 citations	21 h-index	41 g-index
161 ext. papers	2,633 ext. citations	3.7 avg, IF	5.44 L-index

#	Paper	IF	Citations
145	Cyber-Attack Detection and Countermeasure for Distributed Electric Springs for Smart Grid Applications. <i>IEEE Access</i> , 2022 , 10, 13182-13192	3.5	0
144	Identification of Sensor Replay Attacks and Physical Faults for Cyber-Physical Systems 2022 , 6, 1178-1183		3
143	Detecting stealthy integrity attacks in a class of nonlinear cyberphysical systems: A backward-in-time approach. <i>Automatica</i> , 2022 , 141, 110262	5.7	2
142	Traffic Control in a Mixed Autonomy Scenario at Urban Intersections: An Optimal Control Approach. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2022 , 1-17	6.1	1
141	Robust Frequency-Adaptive Quadrature Phase-Locked-Loops With Lyapunov-Certified Global Stability. <i>IEEE Transactions on Control Systems Technology</i> , 2022 , 1-8	4.8	1
140	Stealthy Integrity Attacks for a Class of Nonlinear Cyber-Physical Systems. <i>IEEE Transactions on Automatic Control</i> , 2021 , 1-1	5.9	1
139	Integration of experimental activities into remote teaching using a quadrotor test-bed. <i>IFAC-PapersOnLine</i> , 2021 , 54, 49-54	0.7	1
138	Exponential Modulation Integral Observer for Online Detection of the Fundamental and Harmonics in Grid-Connected Power Electronics Equipment. <i>IEEE Transactions on Control Systems Technology</i> , 2021 , 1-13	4.8	2
137	Resiliency in dynamic leader-follower multiagent systems. <i>Automatica</i> , 2021 , 125, 109384	5.7	4
136	Discrimination between replay attacks and sensor faults for cyber-physical systems via event-triggered communication. <i>European Journal of Control</i> , 2021 ,	2.5	1
135	Stealthy MTD Against Unsupervised Learning-Based Blind FDI Attacks in Power Systems. <i>IEEE Transactions on Information Forensics and Security</i> , 2021 , 16, 1275-1287	8	10
134	Robust Stabilization of a Class of Nonlinear Systems Controlled Over Communication Networks. <i>IEEE Transactions on Automatic Control</i> , 2021 , 66, 3036-3051	5.9	
133	Post-lockdown abatement of COVID-19 by fast periodic switching. <i>PLoS Computational Biology</i> , 2021 , 17, e1008604	5	19
132	Robust traffic wave damping via shared control. <i>Transportation Research Part C: Emerging Technologies</i> , 2021 , 128, 103110	8.4	1
131	Hysteresis-based supervisory control with application to non-pharmaceutical containment of COVID-19. <i>Annual Reviews in Control</i> , 2021 , 52, 508-522	10.3	
130	Detection of Covert Cyber-Attacks in Interconnected Systems: A Distributed Model-Based Approach. <i>IEEE Transactions on Automatic Control</i> , 2020 , 65, 3728-3741	5.9	20
129	Measuring cyber-physical security in industrial control systems via minimum-effort attack strategies. <i>Journal of Information Security and Applications</i> , 2020 , 52, 102471	3.5	9

128	Kernel-Based Simultaneous Parameter-State Estimation for Continuous-Time Systems. <i>IEEE Transactions on Automatic Control</i> , 2020 , 65, 3053-3059	5.9	2
127	Kemeny-based testing for COVID-19. <i>PLoS ONE</i> , 2020 , 15, e0242401	3.7	3
126	A modified non-adaptive OSG-SOGI filter for estimation of a biased sinusoidal signal with global convergence properties. <i>IFAC-PapersOnLine</i> , 2020 , 53, 530-535	0.7	
125	On detectability of cyber-attacks for large-scale interconnected systems. <i>IFAC-PapersOnLine</i> , 2020 , 53, 3521-3526	0.7	0
124	Distributed Detection and Isolation of Covert Cyber Attacks for a Class of Interconnected Systems. <i>IFAC-PapersOnLine</i> , 2020 , 53, 772-777	0.7	
123	Learning Robustly Stabilizing Explicit Model Predictive Controllers: A Non-Regular Sampling Approach 2020 , 4, 737-742		1
122	Numerical Methods for Integration and Search for Minima. <i>Communications and Control Engineering</i> , 2020 , 207-253	0.6	
121	The Basic Infinite-Dimensional or Functional Optimization Problem. <i>Communications and Control Engineering</i> , 2020 , 1-38	0.6	0
120	Design of Mathematical Models by Learning From Data and FSP Functions. <i>Communications and Control Engineering</i> , 2020 , 151-206	0.6	
119	Stochastic Optimal Control with Perfect State Information over a Finite Horizon. <i>Communications and Control Engineering</i> , 2020 , 299-382	0.6	
118	Optimal Control Problems over an Infinite Horizon. <i>Communications and Control Engineering</i> , 2020 , 471-516	5.1	1
117	From Functional Optimization to Nonlinear Programming by the Extended Ritz Method. <i>Communications and Control Engineering</i> , 2020 , 39-88	0.6	
116	Deterministic Optimal Control over a Finite Horizon. <i>Communications and Control Engineering</i> , 2020 , 255-298	2.9	
115	Some Families of FSP Functions and Their Properties. <i>Communications and Control Engineering</i> , 2020 , 89-150	0.6	
114	Team Optimal Control Problems. <i>Communications and Control Engineering</i> , 2020 , 427-469	0.6	
113	Stochastic Optimal Control with Imperfect State Information over a Finite Horizon. <i>Communications and Control Engineering</i> , 2020 , 383-426	0.6	
112	Distributed State Estimation for a Class of Jointly Observable Nonlinear Systems. <i>IFAC-PapersOnLine</i> , 2020 , 53, 5045-5050	0.7	4
111	Enhanced Anomaly Detector for Nonlinear Cyber-Physical Systems against Stealthy Integrity Attacks. <i>IFAC-PapersOnLine</i> , 2020 , 53, 13682-13687	0.7	4

110	Neural Approximations for Optimal Control and Decision. <i>Communications and Control Engineering</i> , 2020 ,	0.6	9
109	State of AI-Based Monitoring in Smart Manufacturing and Introduction to Focused Section. <i>IEEE/ASME Transactions on Mechatronics</i> , 2020 , 25, 2143-2154	5.5	24
108	Almost Sure Resilient Consensus Under Stochastic Interaction: Links Failure and Noisy Channels. <i>IEEE Transactions on Automatic Control</i> , 2020 , 1-1	5.9	1
107	Distributed Fault-Tolerant Control of Large-Scale Systems: An Active Fault Diagnosis Approach. <i>IEEE Transactions on Control of Network Systems</i> , 2020 , 7, 288-301	4	30
106	Distributed Fault-Tolerant Control of Multiagent Systems: An Adaptive Learning Approach. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2020 , 31, 420-432	10.3	19
105	. <i>IEEE Transactions on Automatic Control</i> , 2020 , 65, 2309-2324	5.9	0
104	. <i>IEEE Transactions on Automatic Control</i> , 2020 , 65, 3800-3815	5.9	35
103	Kemeny-based testing for COVID-19 2020 , 15, e0242401		
102	Kemeny-based testing for COVID-19 2020 , 15, e0242401		
101	Kemeny-based testing for COVID-19 2020 , 15, e0242401		
100	Kemeny-based testing for COVID-19 2020 , 15, e0242401		
99	Distributed Detection of Covert Attacks for Interconnected Systems 2019 ,		9
98	Robust deadbeat continuous-time observer design based on modulation integrals. <i>Automatica</i> , 2019 , 107, 95-102	5.7	9
97	Finite-time estimation of multiple exponentially-damped sinusoidal signals: A kernel-based approach. <i>Automatica</i> , 2019 , 106, 1-7	5.7	4
96	Sensor Redundancy for Robustness in Nonlinear State Estimation 2019 ,		1
95	Distributed Fault Detection for Interconnected Large-Scale Systems: A Scalable Plug & Play Approach. <i>IEEE Transactions on Control of Network Systems</i> , 2019 , 6, 800-811	4	21
94	Identification of multi-sinusoidal signals with direct frequency estimation: An adaptive observer approach. <i>Automatica</i> , 2019 , 99, 338-345	5.7	12
93	. <i>IEEE Transactions on Automatic Control</i> , 2019 , 64, 4-19	5.9	25

92	Deadbeat Source Localization From Range-Only Measurements: A Robust Kernel-Based Approach. <i>IEEE Transactions on Control Systems Technology</i> , 2019 , 27, 923-933	4.8	4
91	Observer-Based Anomaly Detection of Synchronous Generators for Power Systems Monitoring. <i>IEEE Transactions on Power Systems</i> , 2018 , 33, 4228-4237	7	26
90	Online Detection of Fundamental and Interharmonics in AC Mains for Parallel Operation of Multiple Grid-Connected Power Converters. <i>IEEE Transactions on Power Electronics</i> , 2018 , 33, 9318-9330	7.2	7
89	Distributed Pareto-optimal state estimation using sensor networks. <i>Automatica</i> , 2018 , 93, 211-223	5.7	5
88	. <i>IEEE Transactions on Automatic Control</i> , 2018 , 63, 1943-1958	5.9	9
87	An Adaptive-Observer-Based Robust Estimator of Multi-sinusoidal Signals. <i>IEEE Transactions on Automatic Control</i> , 2018 , 63, 1618-1631	5.9	6
86	Switching-based Sinusoidal Disturbance Rejection for Uncertain Stable Linear Systems 2018 ,		3
85	Non-asymptotic numerical differentiation: a kernel-based approach. <i>International Journal of Control</i> , 2018 , 91, 2090-2099	1.5	4
84	Fast-Convergent Fault Detection and Isolation in an Uncertain Scenario 2018 ,		1
83	An Adaptive Approach to Sensor Bias Fault Diagnosis and Accommodation for a Class of Input-Output Nonlinear Systems 2018 ,		1
82	Model-Based Fault Detection and Estimation for Linear Time Invariant and Piecewise Affine Systems by Using Quadratic Boundedness 2018 ,		3
81	Distributed Fault-Tolerant Control of High-Order Input-Output Multi-Agent Systems. <i>IFAC-PapersOnLine</i> , 2018 , 51, 453-458	0.7	1
80	Distributed watermarking for secure control of microgrids under replay attacks. <i>IFAC-PapersOnLine</i> , 2018 , 51, 182-187	0.7	18
79	Fault Diagnosis for Uncertain Networked Systems. <i>Systems and Control: Foundations and Applications</i> , 2018 , 533-581	0.3	
78	Deadbeat Simultaneous Parameter-State Estimation for Linear Continuous-time Systems: a Kernel-based Approach 2018 ,		2
77	Distributed adaptive fault-tolerant leader-following formation control of nonlinear uncertain second-order multi-agent systems. <i>International Journal of Robust and Nonlinear Control</i> , 2018 , 28, 4287	3.6	15
76	A Distributed Networked Approach for Fault Detection of Large-Scale Systems. <i>IEEE Transactions on Automatic Control</i> , 2017 , 62, 18-33	5.9	86
75	A Fast-Convergent Modulation Integral Observer for Online Detection of the Fundamental and Harmonics in Grid-Connected Power Electronics Systems. <i>IEEE Transactions on Power Electronics</i> , 2017 , 32, 2596-2607	7.2	17

74	Robust finite-time estimation of biased sinusoidal signals: A volterra operators approach. <i>Automatica</i> , 2017 , 77, 120-132	5.7	18
73	A distributed attack detection method for multi-agent systems governed by consensus-based control 2017 ,		12
72	A Deadbeat Observer for Two and Three-dimensional LTI Systems by a Time/Output-Dependent State Mapping. <i>IFAC-PapersOnLine</i> , 2017 , 50, 6452-6457	0.7	2
71	Distributed Fault Detection and Isolation for Interconnected Systems: a Non-Asymptotic Kernel-Based Approach. <i>IFAC-PapersOnLine</i> , 2017 , 50, 1013-1018	0.7	3
70	Distributed Clustering-based Sensor Fault Diagnosis for HVAC Systems. <i>IFAC-PapersOnLine</i> , 2017 , 50, 4197-4202	0.7	1
69	Distributed adaptive fault-tolerant control of a class of high-order nonlinear uncertain multi-agent systems 2017 ,		3
68	Front-end monitoring of multiple loads in wireless power transfer systems without wireless communication systems. <i>IEEE Transactions on Power Electronics</i> , 2016 , 31, 2510-2517	7.2	49
67	An adaptive observer for a class of parabolic PDEs based on a convex optimization approach for backstepping PDE design 2016 ,		3
66	Front-End Monitoring of the Mutual Inductance and Load Resistance in a SeriesSeries Compensated Wireless Power Transfer System. <i>IEEE Transactions on Power Electronics</i> , 2016 , 31, 7339-7352	7.2	78
65	Kernel-based deadbeat parametric estimation of bias-affected damped sinusoidal signals 2016 ,		4
64	Deadbeat source localization from range-only measurements: A robust kernel-based approach 2016 ,		2
63	Backstepping PDE-based adaptive observer for a Single Particle Model of Lithium-Ion Batteries 2016 ,		1
62	Distributed fault detection with sensor networks using pareto-optimal dynamic estimation method 2016 ,		2
61	Estimation of multi-sinusoidal signals: A deadbeat methodology 2016 ,		1
60	Plug-and-Play Fault Detection and Control-Reconfiguration for a Class of Nonlinear Large-Scale Constrained Systems. <i>IEEE Transactions on Automatic Control</i> , 2016 , 61, 3963-3978	5.9	47
59	A robust nonlinear observer-based approach for distributed fault detection of inputOutput interconnected systems. <i>Automatica</i> , 2015 , 53, 408-415	5.7	56
58	Non-Asymptotic Kernel-Based Parametric Estimation of Continuous-Time Linear Systems. <i>IEEE Transactions on Automatic Control</i> , 2015 , 1-1	5.9	6
57	Distributed Adaptive Fault-Tolerant Control of Uncertain Multi-Agent Systems. <i>IFAC-PapersOnLine</i> , 2015 , 48, 66-71	0.7	18

56	Detection of drift sensor faults in a class of nonlinear uncertain systems 2015 ,		2
55	A Plug-and-Play Fault Diagnosis Approach for Large-Scale Systems. <i>IFAC-PapersOnLine</i> , 2015 , 48, 601-606.	0.7	4
54	A parallel prefiltering approach for the identification of a biased sinusoidal signal: Theory and experiments. <i>International Journal of Adaptive Control and Signal Processing</i> , 2015 , 29, 1591-1608	2.8	7
53	Backstepping PDE design, Volterra and Fredholm operators: A convex optimization approach 2015 ,		3
52	A distributed pareto-optimal dynamic estimation method 2015 ,		4
51	Deadbeat kernel-based frequency estimation of a biased sinusoidal signal 2015 ,		4
50	Distributed adaptive fault-tolerant control of nonlinear uncertain second-order multi-agent systems 2015 ,		6
49	Semi-global direct estimation of multiple frequencies with an adaptive observer having minimal parameterization 2015 ,		5
48	Kernel-based continuous-time identification of Hammerstein models: Application to the case of ankle joint stiffness dynamics 2015 ,		2
47	An Algebraic Approach to Modeling Distributed Multiphysics Problems: the case of a DRI Reactor**This paper has been partially supported by Regione Friuli-Venezia-Giulia.. <i>IFAC-PapersOnLine</i> , 2015 , 48, 155-160	0.7	
46	Optimal Topology for Distributed Fault Detection of Large-scale Systems. <i>IFAC-PapersOnLine</i> , 2015 , 48, 60-65	0.7	3
45	The modulation integral observer for linear continuous-time systems 2015 ,		6
44	Distributed fault diagnosis for process and sensor faults in a class of interconnected input-output nonlinear discrete-time systems. <i>International Journal of Control</i> , 2015 , 88, 1472-1489	1.5	18
43	On the Robustness of Nominal Nonlinear Minimum-Time Control and Extension to Non-Robustly Controllable Target Sets. <i>IEEE Transactions on Automatic Control</i> , 2014 , 59, 863-875	5.9	3
42	Distributed sensor fault detection and isolation for multimachine power systems. <i>International Journal of Robust and Nonlinear Control</i> , 2014 , 24, 1403-1430	3.6	18
41	Robust Sinusoid Identification With Structured and Unstructured Measurement Uncertainties. <i>IEEE Transactions on Automatic Control</i> , 2014 , 59, 1588-1593	5.9	17
40	Fault Diagnosis and control-reconfiguration in Large-Scale Systems: a Plug-and-Play approach 2014 ,		12
39	An adaptive observer-based estimator for multi-sinusoidal signals 2014 ,		10

38	An Adaptive Observer-Based Switched Methodology for the Identification of a Perturbed Sinusoidal Signal: Theory and Experiments. <i>IEEE Transactions on Signal Processing</i> , 2014 , 62, 6355-6365	4.8	14
37	Sinusoidal signal estimation from a noisy-biased measurement by an enhanced PLL with generalized error filtering 2014 ,		4
36	A Distributed Fault Detection Filtering Approach for a Class of Interconnected Continuous-Time Nonlinear Systems. <i>IEEE Transactions on Automatic Control</i> , 2013 , 58, 2032-2047	5.9	58
35	Distributed fault diagnosis for continuous-time nonlinear systems: The input-output case. <i>Annual Reviews in Control</i> , 2013 , 37, 163-169	10.3	28
34	Approximate model predictive control laws for constrained nonlinear discrete-time systems: analysis and offline design. <i>International Journal of Control</i> , 2013 , 86, 804-820	1.5	19
33	Distributed fault detection for uncertain nonlinear systems: A network delay compensation strategy 2013 ,		5
32	Kernel-based non-asymptotic state estimation for linear continuous-time systems 2013 ,		16
31	Adaptive observer-based sinusoid identification: Structured and bounded unstructured measurement disturbances 2013 ,		5
30	An algebraic approach for robust fault detection of input-output elastodynamic distributed parameter systems 2013 ,		2
29	Distributed fault detection using sensor networks and Pareto estimation 2013 ,		5
28	A distributed fault detection filtering approach for a class of interconnected input-output nonlinear systems 2013 ,		3
27	Distributed Fault Detection and Isolation of Large-Scale Discrete-Time Nonlinear Systems: An Adaptive Approximation Approach. <i>IEEE Transactions on Automatic Control</i> , 2012 , 57, 275-290	5.9	145
26	A distributed estimation method for sensor networks based on Pareto optimization 2012 ,		2
25	Distributed Fault Diagnosis for Input-Output Continuous-Time Nonlinear Systems. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2012 , 45, 1089-1094		6
24	Distributed Fault Detection and Isolation of Continuous-Time Non-Linear Systems. <i>European Journal of Control</i> , 2011 , 17, 603-620	2.5	36
23	Networked Predictive Control of Uncertain Constrained Nonlinear Systems: Recursive Feasibility and Input-to-State Stability Analysis. <i>IEEE Transactions on Automatic Control</i> , 2011 , 56, 72-87	5.9	98
22	A direct adaptive method for discriminating sinusoidal components with nearby frequencies 2011 ,		3
21	A distributed fault detection methodology for a class of large-scale uncertain input-output discrete-time nonlinear systems 2011 ,		8

20	Robust parametric identification of sinusoidal signals: An Input-to-State Stability approach 2011 ,		10
19	Editorial Control Systems Technology: Towards a Systems-of-Systems Perspective?. <i>IEEE Transactions on Control Systems Technology</i> , 2010 , 18, 249-250	4.8	1
18	Fault diagnosis of a class of nonlinear uncertain systems with Lipschitz nonlinearities using adaptive estimation. <i>Automatica</i> , 2010 , 46, 290-299	5.7	253
17	Decentralized fault detection in a class of large-scale nonlinear uncertain systems 2009 ,		12
16	Networked predictive control of constrained nonlinear systems: Recursive feasibility and Input-to-State Stability analysis 2009 ,		3
15	Networked MPC for constrained linear systems: a recursive feasibility approach 2009 ,		4
14	Robust Model Predictive Control of Nonlinear Systems With Bounded and State-Dependent Uncertainties. <i>IEEE Transactions on Automatic Control</i> , 2009 , 54, 1681-1687	5.9	61
13	High-Gain Adaptive Control: A Derivative-Based Approach. <i>IEEE Transactions on Automatic Control</i> , 2009 , 54, 2164-2169	5.9	7
12	Approximate off-line receding horizon control of constrained nonlinear discrete-time systems 2009 ,		1
11	High-gain adaptive control: A derivative-based approach 2008 ,		1
10	Cooperative Constrained Control of Distributed Agents With Nonlinear Dynamics and Delayed Information Exchange: A Stabilizing Receding-Horizon Approach. <i>IEEE Transactions on Automatic Control</i> , 2008 , 53, 324-338	5.9	116
9	Adaptive fault-tolerant control of a class of nonlinear MIMO systems 2008 ,		2
8	Isolation of process and sensor faults for a class of nonlinear uncertain systems 2008 ,		1
7	Design and analysis of a fault isolation scheme for a class of uncertain nonlinear systems. <i>Annual Reviews in Control</i> , 2008 , 32, 107-121	10.3	45
6	Design and stability analysis of cooperative receding-horizon control of linear discrete-time agents. <i>International Journal of Robust and Nonlinear Control</i> , 2007 , 17, 982-1001	3.6	13
5	A fault detection and isolation scheme for nonlinear uncertain discrete-time sytems 2007 ,		13
4	Distributed Fault Diagnosis using Sensor Networks and Consensus-based Filters 2006 ,		43
3	Dynamic Neural Networks for Actuator Fault Diagnosis: Application to the DAMADICS Benchmark Problem. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2003 , 36, 975-980		1

2	Robust fault isolation for a class of non-linear input-output systems. <i>International Journal of Control</i> , 2001 , 74, 1295-1310	1.5	42
1	Assessing Cyber-Physical Security in Industrial Control Systems		1