

HÃ©lÃ¨ne Piet-Lahanier

List of Publications by Year in descending order

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64
papers

1,374
citations

516710

16
h-index

361022

35
g-index

65
all docs

65
docs citations

65
times ranked

957
citing authors

#	ARTICLE	IF	CITATIONS
1	Estimation of parameter bounds from bounded-error data: a survey. <i>Mathematics and Computers in Simulation</i> , 1990, 32, 449-468.	4.4	280
2	Model-based fault diagnosis for aerospace systems: a survey. <i>Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering</i> , 2012, 226, 1329-1360.	1.3	202
3	A hierarchical controller for miniature VTOL UAVs: Design and stability analysis using singular perturbation theory. <i>Control Engineering Practice</i> , 2011, 19, 1099-1108.	5.5	164
4	Exact recursive polyhedral description of the feasible parameter set for bounded-error models. <i>IEEE Transactions on Automatic Control</i> , 1989, 34, 911-915.	5.7	148
5	Worst-case global optimization of black-box functions through Kriging and relaxation. <i>Journal of Global Optimization</i> , 2013, 55, 707-727.	1.8	57
6	Distributed event-triggered control strategies for multi-agent formation stabilization and tracking. <i>Automatica</i> , 2019, 106, 110-116.	5.0	33
7	Analysis and optimization of an air-launch-to-orbit separation. <i>Acta Astronautica</i> , 2015, 108, 18-29.	3.2	26
8	A survey of automatic control methods for liquid-propellant rocket engines. <i>Progress in Aerospace Sciences</i> , 2019, 107, 63-84.	12.1	25
9	Estimation of non-uniquely identifiable parameters via exhaustive modeling and membership set theory. <i>Mathematics and Computers in Simulation</i> , 1986, 28, 479-490.	4.4	24
10	Model predictive control of cooperative vehicles using systematic search approach. <i>Control Engineering Practice</i> , 2014, 32, 204-217.	5.5	23
11	Exact description of feasible parameter sets and minimax estimation. <i>International Journal of Adaptive Control and Signal Processing</i> , 1994, 8, 5-14.	4.1	22
12	Exact recursive characterization of feasible parameter sets in the linear case. <i>Mathematics and Computers in Simulation</i> , 1990, 32, 495-504.	4.4	21
13	Bounded-error tracking of time-varying parameters. <i>IEEE Transactions on Automatic Control</i> , 1994, 39, 1661-1664.	5.7	20
14	A new expected-improvement algorithm for continuous minimax optimization. <i>Journal of Global Optimization</i> , 2016, 64, 785-802.	1.8	20
15	Improvement of the Representativity of the Morris Method for Air-Launch-to-Orbit Separation. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2014, 47, 7954-7959.	0.4	19
16	Estimation of the parameter uncertainty resulting from bounded-error data. <i>Mathematical Biosciences</i> , 1988, 92, 55-74.	1.9	18
17	Collaborative multiple micro air vehiclesâ€™ localization and target tracking in GPS-denied environment from rangeâ€™velocity measurements. <i>International Journal of Micro Air Vehicles</i> , 2018, 10, 225-239.	1.3	17
18	Attitude tracking of rigid bodies on the special orthogonal group with bounded partial state feedback., 2009,, .		15

#	ARTICLE	IF	CITATIONS
19	A Box Regularized Particle Filter for terrain navigation with highly non-linear measurements**The authors would like to thank the COGENT Computing lab (Coventry University) for their financial support.. IFAC-PapersOnLine, 2016, 49, 361-366.	0.9	15
20	Cooperative allocation and guidance for air defence application. Control Engineering Practice, 2014, 32, 236-244.	5.5	14
21	Automatic tuning via Kriging-based optimization of methods for fault detection and isolation. , 2010, , .		13
22	Characterization of non-connected parameter uncertainty regions. Mathematics and Computers in Simulation, 1990, 32, 553-560.	4.4	12
23	Stabilization of a Small Unmanned Aerial Vehicle Model without Velocity Measurement. Proceedings - IEEE International Conference on Robotics and Automation, 2007, , .	0.0	12
24	Control-based fault detection and isolation for autonomous aircraft. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2012, 226, 510-531.	1.3	12
25	Cooperative guidance of UAVs for area exploration with final target allocation. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 260-265.	0.4	11
26	A Box Regularized Particle Filter for state estimation with severely ambiguous and non-linear measurements. Automatica, 2019, 104, 102-110.	5.0	11
27	Comparison of methods for solving sets of linear inequalities in the bounded-error context. Mathematics and Computers in Simulation, 1992, 34, 515-524.	4.4	10
28	Reversible reactions over non-metallic catalysts: A transient isotopic tracing of the isobutane-isobutene-hydrogen system over chromia. Journal of Catalysis, 1992, 133, 383-396.	6.2	9
29	Cooperative fault detection and isolation in a surveillance sensor network: a case study. IFAC-PapersOnLine, 2018, 51, 790-797.	0.9	9
30	Design of nonlinear MPC by Kriging-based optimization. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 1490-1495.	0.4	8
31	Bounded-error target localization and tracking using a fleet of UAVs. Automatica, 2021, 132, 109809.	5.0	8
32	Min-max hyperparameter tuning, with application to fault detection. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 12904-12909.	0.4	7
33	Distributed event-triggered control for multi-agent formation stabilization. IFAC-PapersOnLine, 2017, 50, 8025-8030.	0.9	7
34	Robust automatic tuning of diagnosis methods via an efficient use of costly simulations. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 398-403.	0.4	6
35	Global extremum seeking by Kriging with a multi-agent system. IFAC-PapersOnLine, 2015, 48, 526-531.	0.9	6
36	Distributed event-triggered formation control for multi-agent systems in presence of packet losses. Automatica, 2022, 141, 110215.	5.0	6

#	ARTICLE	IF	CITATIONS
37	Trajectory tracking of an Unmanned Aerial Vehicle model using partial state feedback. , 2007, , .		5
38	Nonlinear FDI based on state derivatives, as provided by inertial measurement units. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 951-956.	0.4	5
39	A new strategy for worst-case design from costly numerical simulations. , 2013, , .		5
40	Cooperative Guidance of Lego Mindstorms NXT Mobile Robots. , 2014, , .		5
41	Guidance of Flocks of Vehicles Using Virtual Signposts. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 5999-6004.	0.4	4
42	Actuator Fault Tolerant System For Cryogenic Combustion Bench Cooling Circuit. IFAC-PapersOnLine, 2018, 51, 592-599.	0.9	4
43	Derivation and Analysis of a State-Space Model for Transient Control of Liquid-Propellant Rocket Engines. , 2018, , .		4
44	CONTRACTIVE MODEL PREDICTIVE CONTROL OF AN UNMANNED AERIAL VEHICLE MODEL. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2007, 40, 450-455.	0.4	3
45	Cooperative Allocation and Guidance for Air Defence Application. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 3897-3902.	0.4	3
46	Formation flying control via elliptical virtual structure. , 2013, , .		3
47	Development of model-based fault diagnosis algorithms for MASCOTTE cryogenic test bench. Journal of Physics: Conference Series, 2014, 570, 072006.	0.4	3
48	Fault diagnosis benchmark for a rocket engine demonstrator. IFAC-PapersOnLine, 2015, 48, 895-900.	0.9	3
49	Learning Viewpoint Planning in Active Recognition on a Small Sampling Budget: A Kriging Approach. , 2010, , .		2
50	Fault diagnosis for nonlinear aircraft based on control-induced redundancy. , 2010, , .		2
51	Bounded-error target localization and tracking in presence of decoys using a fleet of UAVs. IFAC-PapersOnLine, 2020, 53, 9521-9528.	0.9	2
52	Wind field bounded error identification and robust guidance law design for a small-scaled helicopter. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 43-48.	0.4	1
53	Membership set-based mid course guidance: application to manoeuvring target interception. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 3903-3908.	0.4	1
54	Kriging-based estimation of time derivatives via FIR filtering. , 2013, , .		1

#	ARTICLE	IF	CITATIONS
55	Adaptation of the Morris method to multi-dimensional factors for air-launch-to-orbit separation. , 2014, , .		1
56	HMS developments for the rocket engine demonstrator Mascotte. , 2015, , .		1
57	New state estimator for decentralized event-triggered consensus for multi-agent systems. IFAC-PapersOnLine, 2016, 49, 365-370.	0.9	1
58	Trajectory and guidance scheme design for free flight test of hypersonic vehicle. , 2017, , .		1
59	Collaborative multi-vehicle localization with respect to static/dynamic target from range and velocity measurements. , 2017, , .		1
60	Event-Triggered Model Predictive Control for target tracking with angles-only measurements. IFAC-PapersOnLine, 2017, 50, 15959-15964.	0.9	1
61	Enhanced cooperative navigation by data fusion from IMU, ambiguous terrain navigation, and coarse relative states. , 2017, , .		1
62	A Multi-level Optimization Approach for the Planning of Heterogeneous Sensor Networks. Advances in Intelligent Systems and Computing, 2015, , 221-233.	0.6	1
63	Wind detection and reconfiguration of guidance and control law for a small-scaled helicopter. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 127-132.	0.4	0
64	Box Particle Control for Aerospace Vehicles Guidance Under Failure Probability Constraints. , 2018, , .		0