

Anouck R Girard

List of Publications by Year in Descending Order

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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.

118
papers

1,131
citations

16
h-index

29
g-index

140
ext. papers

1,570
ext. citations

3.1
avg, IF

4.93
L-index

#	Paper	IF	Citations
118	Set-Theoretic Failure Mode Reconfiguration for Stuck Actuators 2022 , 6, 1316-1321		0
117	Safe Learning Reference Governor: Theory and Application to Fuel Truck Rollover Avoidance. <i>ASME Journal of Autonomous Vehicles and Systems</i> , 2021 , 1,		2
116	Full State Feedback Foiling Control for America's Cup Catamarans. <i>IEEE Transactions on Control Systems Technology</i> , 2021 , 29, 1-17	4.8	1
115	Action Governor for Discrete-Time Linear Systems With Non-Convex Constraints 2021 , 5, 121-126		2
114	Robust Action Governor for Discrete-Time Piecewise Affine Systems With Additive Disturbances 2021 , 1-1		0
113	An Analytical Safe Approximation to Joint Chance-Constrained Programming With Additive Gaussian Noises. <i>IEEE Transactions on Automatic Control</i> , 2021 , 1-1	5.9	0
112	Fuzzy Encoded Markov Chains: Overview, Observer Theory, and Applications. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2021 , 51, 116-130	7.3	0
111	Chance-constrained controller state and reference governor. <i>Automatica</i> , 2021 , 133, 109864	5.7	1
110	Coordinated Receding-Horizon Control of Battery Electric Vehicle Speed and Gearshift Using Relaxed Mixed-Integer Nonlinear Programming. <i>IEEE Transactions on Control Systems Technology</i> , 2021 , 1-11	4.8	3
109	A novel approach for optimal trajectory design with multiple operation modes of propulsion system, part 1. <i>Acta Astronautica</i> , 2020 , 172, 151-165	2.9	11
108	A novel approach for optimal trajectory design with multiple operation modes of propulsion system, part 2. <i>Acta Astronautica</i> , 2020 , 172, 166-179	2.9	8
107	Game-Theoretic Modeling of Traffic in Unsignalized Intersection Network for Autonomous Vehicle Control Verification and Validation. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2020 , 1-16	6.1	13
106	Model-free Learning for Safety-critical Control Systems: A Reference Governor Approach 2020 ,		2
105	Vision-Based Autonomous Driving: A Model Learning Approach 2020 ,		1
104	Trajectory Optimization for Falsification: A Case Study of Vehicle Rollover Test Generation Based on Black-box Models. <i>IFAC-PapersOnLine</i> , 2020 , 53, 14279-14284	0.7	0
103	A Reference Governor for Nonlinear Systems With Disturbance Inputs Based on Logarithmic Norms and Quadratic Programming. <i>IEEE Transactions on Automatic Control</i> , 2020 , 65, 3207-3214	5.9	4
102	Rapid uncertainty propagation and chance-constrained path planning for small unmanned aerial vehicles. <i>Advanced Control for Applications</i> , 2020 , 2, e23	0.9	2

101	Detection-averse optimal and receding-horizon control for Markov decision processes. <i>Automatica</i> , 2020 , 122, 109278	5.7	0
100	Game-Theoretic Modeling of Multi-Vehicle Interactions at Uncontrolled Intersections. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2020 , 1-15	6.1	10
99	Hierarchical Optimization of Speed and Gearshift Control for Battery Electric Vehicles Using Preview Information 2020 ,		3
98	Recomposable restricted finite state machines: definition and solution approaches. <i>International Journal of Control</i> , 2020 , 93, 2814-2823	1.5	
97	Distributed Model Predictive Control for More Electric Aircraft Subsystems Operating at Multiple Time Scales. <i>IEEE Transactions on Control Systems Technology</i> , 2020 , 28, 2177-2190	4.8	7
96	A Model-Based Approach to the Estimation and Control of a Continuously Variable Transmission. <i>IEEE Transactions on Control Systems Technology</i> , 2020 , 28, 1940-1947	4.8	1
95	Reply by the Authors to M. Khosravi and A. B. Novinzadeh. <i>AIAA Journal</i> , 2019 , 57, 2648-2648	2.1	
94	A Traffic Simulation Model with Interactive Drivers and High-fidelity Car Dynamics. <i>IFAC-PapersOnLine</i> , 2019 , 51, 384-389	0.7	5
93	Stochastic Predictive Control for Partially Observable Markov Decision Processes With Time-Joint Chance Constraints and Application to Autonomous Vehicle Control. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2019 , 141,	1.6	5
92	Game Theory-Based Traffic Modeling for Calibration of Automated Driving Algorithms. <i>Lecture Notes in Control and Information Sciences</i> , 2019 , 89-106	0.5	5
91	Model-free Learning to Avoid Constraint Violations: An Explicit Reference Governor Approach 2019 ,		6
90	A vehicle routing problem with dynamic demands and restricted failures solved using stochastic predictive control 2019 ,		1
89	On Closed-loop Lyapunov Stability with Minimum-time MPC Feedback Laws for Discrete-time Systems 2019 ,		3
88	Optimized Design of Multi-Speed Transmissions for Battery Electric Vehicles 2019 ,		6
87	Decision making in dynamic and interactive environments based on cognitive hierarchy theory, Bayesian inference, and predictive control 2019 ,		2
86	Stochastic Driver Modeling and Validation with Traffic Data 2019 ,		2
85	Scalar Reference Governor for Constrained Maneuver and Shape Control of Nonlinear Multibody Aircraft. <i>IFAC-PapersOnLine</i> , 2019 , 52, 819-824	0.7	1
84	Multi-mode Controller for Propellantless Spacecraft Translational Maneuvering Through Orientation Changes Only. <i>IFAC-PapersOnLine</i> , 2019 , 52, 825-830	0.7	

83	LQ control of unknown discrete-time linear systems: A novel approach and a comparison study. <i>Optimal Control Applications and Methods</i> , 2019 , 40, 265-291	1.7	3
82	Attitude Control of a 2U Cubesat by Magnetic and Air Drag Torques. <i>IEEE Transactions on Control Systems Technology</i> , 2019 , 27, 1047-1059	4.8	13
81	Game Theoretic Modeling of Driver and Vehicle Interactions for Verification and Validation of Autonomous Vehicle Control Systems. <i>IEEE Transactions on Control Systems Technology</i> , 2018 , 26, 1782-1797	4.8	90
80	Reference Governor Strategies for Vehicle Rollover Avoidance. <i>IEEE Transactions on Control Systems Technology</i> , 2018 , 26, 1954-1969	4.8	12
79	Rapid Uncertainty Propagation and Chance-Constrained Trajectory Optimization for Small Unmanned Aerial Vehicles 2018 ,		2
78	Game Theoretic Modeling of Vehicle Interactions at Unsignalized Intersections and Application to Autonomous Vehicle Control 2018 ,		14
77	Energy-Efficient Control Approach for Automated HEV and BEV With Short-Horizon Preview Information 2018 ,		2
76	Adaptive Game-Theoretic Decision Making for Autonomous Vehicle Control at Roundabouts 2018 ,		20
75	Tractable Stochastic Predictive Control for Partially Observable Markov Decision Processes with Time-Joint Chance Constraints 2018 ,		2
74	Optimal Control Based Falsification of Unknown Systems with Time Delays: A Gasoline Engine A/F Ratio Control Case Study. <i>IFAC-PapersOnLine</i> , 2018 , 51, 252-257	0.7	3
73	Task selection for radar resource management in dynamic environments. <i>Journal of Engineering</i> , 2018 , 2018, 1-9	0.7	3
72	Homing Guidance Using Spatially Quantized Signals. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2017 , 139,	1.6	1
71	Coordinated Model Predictive Control of Aircraft Gas Turbine Engine and Power System. <i>Journal of Guidance, Control, and Dynamics</i> , 2017 , 40, 2538-2555	2.1	21
70	Predictive propulsion and power control for large transient power loads in a More Electric Aircraft 2017 ,		5
69	Constrained Spacecraft Relative Motion Planning Exploiting Periodic Natural Motion Trajectories and Invariance. <i>Journal of Guidance, Control, and Dynamics</i> , 2017 , 40, 3100-3115	2.1	14
68	Real-time optimal path planning and wind estimation using Gaussian process regression for precision airdrop 2017 ,		5
67	Model-free optimal control based automotive control system falsification 2017 ,		5
66	Parameter Governors for Coordinated Control of n-Spacecraft Formations. <i>Journal of Guidance, Control, and Dynamics</i> , 2017 , 40, 3020-3025	2.1	3

65	Distributed MPC via ADMM for Coordination and Control of More Electric Aircraft Subsystems 2017		4
64	Unpredictably Dynamic Environment Patrolling. <i>Unmanned Systems</i> , 2017 , 05, 223-236	3	1
63	A Finite State Machine Based Automated Driving Controller and its Stochastic Optimization 2017 ,		13
62	Continuum Deformation of a Multi-Quadcopter System in a Payload Delivery Mission. <i>IFAC-PapersOnLine</i> , 2017 , 50, 3455-3462	0.7	3
61	Control of Gear Ratio and Slip in Continuously Variable Transmissions: A Model Predictive Control Approach 2017 ,		4
60	A game theoretical model of traffic with multiple interacting drivers for use in autonomous vehicle development 2016 ,		23
59	Stability Analysis of Runway Schedules. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2016 , 17, 3380-3390	6.1	4
58	Expert system for automated bone age determination. <i>Expert Systems With Applications</i> , 2016 , 50, 75-88	7.8	24
57	Stability and Criticality Analysis for Integer Linear Programs With Markovian Problem Data. <i>IEEE Transactions on Automatic Control</i> , 2016 , 61, 1466-1476	5.9	1
56	Pursuit-Evasion games in the presence of obstacles. <i>Automatica</i> , 2016 , 65, 1-11	5.7	93
55	Integrated/coordinated control of aircraft gas turbine engine and electrical power system: Towards large electrical load handling 2016 ,		4
54	Robustness of communication links for teams of unmanned aircraft by sensitivity analysis of minimum spanning trees 2016 ,		2
53	Time Shift Governor for Coordinated Control of Two Spacecraft Formations. <i>IFAC-PapersOnLine</i> , 2016 , 49, 296-301	0.7	3
52	Hierarchical reasoning game theory based approach for evaluation and testing of autonomous vehicle control systems 2016 ,		23
51	Nonlinear Dynamic Inversion of a Flexible Aircraft. <i>IFAC-PapersOnLine</i> , 2016 , 49, 338-342	0.7	7
50	Cooperative surveillance and pursuit using unmanned aerial vehicles and unattended ground sensors. <i>Sensors</i> , 2015 , 15, 1365-88	3.8	30
49	Stability analysis of optimal runway schedules 2015 ,		2
48	Proportional Navigation: Optimal Homing and Optimal Evasion. <i>SIAM Review</i> , 2015 , 57, 611-624	7.4	2

47	Stability analysis of multi-objective planning problems for unmanned aircraft 2015 ,		4
46	Optimal Configuration of Alarm Sensors for Monitoring Mobile Ergodic Markov Phenomena on Arbitrary Graphs. <i>IEEE Sensors Journal</i> , 2015 , 15, 3622-3634	4	3
45	Dominance in pursuit-evasion games with uncertainty 2015 ,		3
44	Binary Range-Rate Measurements and Homing Guidance. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2015 , 137,	1.6	2
43	Scaling of Airplane Dynamic Response to Stochastic Gusts. <i>Journal of Aircraft</i> , 2014 , 51, 1554-1566	1.6	4
42	. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , 2014 , 50, 1234-1248	3.7	2
41	Safety Margins for Flight Through Stochastic Gusts. <i>Journal of Guidance, Control, and Dynamics</i> , 2014 , 37, 2026-2030	2.1	2
40	Perpetual Dynamic Soaring in Linear Wind Shear. <i>Journal of Guidance, Control, and Dynamics</i> , 2014 , 37, 1712-1716	2.1	8
39	Pursuit-evasion games in the presence of a line segment obstacle 2014 ,		6
38	Stability analysis of stochastic integer optimization problems 2014 ,		5
37	Informative Path Planning for Improving Classification Performance through Kinematic Decisions. <i>Unmanned Systems</i> , 2014 , 02, 143-156	3	
36	Fundamentals of Aerospace Navigation and Guidance 2014 ,		14
35	Envelopes for Flight Through Stochastic Gusts. <i>Journal of Guidance, Control, and Dynamics</i> , 2013 , 36, 1464-1476	1.0	
34	Persistent visitation under revisit constraints 2013 ,		13
33	Atmospheric flow field models applicable for aircraft endurance extension. <i>Progress in Aerospace Sciences</i> , 2013 , 61, 1-25	8.8	16
32	A homing guidance law for binary range-rate measurements 2013 ,		2
31	Strategic Path Planning by Sequential Parametric Bayesian Decisions. <i>International Journal of Advanced Robotic Systems</i> , 2013 , 10, 390	1.4	
30	Radar resource management: Dynamic programming and dynamic finite state machines 2013 ,		2

29	Dynamics, stability, and control analyses of flapping wing micro-air vehicles. <i>Progress in Aerospace Sciences</i> , 2012 , 51, 18-30	8.8	78
28	Longitudinal Flight Dynamics of Flapping-Wing Micro Air Vehicles. <i>Journal of Guidance, Control, and Dynamics</i> , 2012 , 35, 1115-1131	2.1	13
27	Automated classification system for Bone Age X-ray images 2012 ,		9
26	Persistent Visitation with Fuel Constraints. <i>Procedia, Social and Behavioral Sciences</i> , 2012 , 54, 1037-1046		11
25	Optimally-informative path planning for dynamic Bayesian classification. <i>Optimization Letters</i> , 2012 , 6, 1627-1642	1.1	4
24	Mixed-initiative nested classification for n team members 2012 ,		1
23	Formation control with collision avoidance 2011 ,		11
22	Modeling and Simulation of Nonlinear Dynamics of Flapping Wing Micro Air Vehicles. <i>AIAA Journal</i> , 2011 , 49, 969-981	2.1	85
21	. <i>IEEE Transactions on Automatic Control</i> , 2011 , 56, 1551-1566	5.9	42
20	Communication-constrained distributed task assignment 2011 ,		1
19	Stability derivatives for a flapping wing MAV in a hover condition using local averaging 2011 ,		2
18	Mixed-initiative nested classification by optimal thresholding 2011 ,		4
17	Wind-field reconstruction from flight data using an unbiased minimum-variance unscented filter. <i>Transactions of the Institute of Measurement and Control</i> , 2011 , 33, 718-733	1.8	5
16	Language-based minimization of sensor activation for event diagnosis 2010 ,		3
15	Sequential bayesian classification decisions for mobile sensors 2010 ,		2
14	A combined Tabu search and 2-opt heuristic for multiple vehicle routing 2010 ,		1
13	. <i>IEEE Transactions on Automatic Control</i> , 2010 , 55, 2447-2461	5.9	30
12	Open loop pitch control of a flapping wing micro-air vehicle using a tail and control mass 2010 ,		14

11	Optimal sensor activation for diagnosing discrete event systems. <i>Automatica</i> , 2010 , 46, 1165-1175	5.7	38
10	Optimal path planning for uncertain exploration 2009 ,		6
9	Modeling and optimizing military air operations 2009 ,		3
8	UAVs Dynamic Mission Management in Adversarial Environments. <i>International Journal of Aerospace Engineering</i> , 2009 , 2009, 1-10	0.9	6
7	Dynamic sensor activation for event diagnosis 2009 ,		2
6	The verification of codiagnosability in the case of dynamic observations 2009 ,		2
5	Wind-field reconstruction using flight data 2008 ,		15
4	Gyroscopic stabilisation of unstable vehicles: configurations, dynamics, and control. <i>Vehicle System Dynamics</i> , 2008 , 46, 247-260	2.8	16
3	Path planning for cooperative time-optimal information collection 2008 ,		31
2	Formation control of multiple vehicles using dynamic surface control and hybrid systems. <i>International Journal of Control</i> , 2003 , 76, 913-923	1.5	19
1	A hierarchical control architecture for mobile offshore bases. <i>Marine Structures</i> , 2000 , 13, 459-476	3.8	4