

Anouck R Girard

List of Publications by Year in descending order

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139
papers

1,953
citations

393982

19
h-index

360668

35
g-index

140
all docs

140
docs citations

140
times ranked

1351
citing authors

#	ARTICLE	IF	CITATIONS
1	Pursuit–evasion games in the presence of obstacles. <i>Automatica</i> , 2016, 65, 1-11.	3.0	169
2	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.	3.2	165
3	Dynamics, stability, and control analyses of flapping wing micro-air vehicles. <i>Progress in Aerospace Sciences</i> , 2012, 51, 18-30.	6.3	111
4	Modeling and Simulation of Nonlinear Dynamics of Flapping Wing Micro Air Vehicles. <i>AIAA Journal</i> , 2011, 49, 969-981.	1.5	107
5	Adaptive Game-Theoretic Decision Making for Autonomous Vehicle Control at Roundabouts. , 2018, , .		60
6	On Codiagnosability and Coobservability With Dynamic Observations. <i>IEEE Transactions on Automatic Control</i> , 2011, 56, 1551-1566.	3.6	55
7	Optimal sensor activation for diagnosing discrete event systems. <i>Automatica</i> , 2010, 46, 1165-1175.	3.0	52
8	Path planning for cooperative time-optimal information collection. , 2008, , .		40
9	Minimization of Dynamic Sensor Activation in Discrete Event Systems for the Purpose of Control. <i>IEEE Transactions on Automatic Control</i> , 2010, 55, 2447-2461.	3.6	40
10	Cooperative Surveillance and Pursuit Using Unmanned Aerial Vehicles and Unattended Ground Sensors. <i>Sensors</i> , 2015, 15, 1365-1388.	2.1	39
11	Game Theoretic Modeling of Vehicle Interactions at Unsignalized Intersections and Application to Autonomous Vehicle Control. , 2018, , .		39
12	Hierarchical reasoning game theory based approach for evaluation and testing of autonomous vehicle control systems. , 2016, , .		37
13	Game-Theoretic Modeling of Traffic in Unsignalized Intersection Network for Autonomous Vehicle Control Verification and Validation. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2022, 23, 2211-2226.	4.7	37
14	Game-Theoretic Modeling of Multi-Vehicle Interactions at Uncontrolled Intersections. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2022, 23, 1428-1442.	4.7	35
15	Constrained Spacecraft Relative Motion Planning Exploiting Periodic Natural Motion Trajectories and Invariance. <i>Journal of Guidance, Control, and Dynamics</i> , 2017, 40, 3100-3115.	1.6	34
16	A game theoretical model of traffic with multiple interacting drivers for use in autonomous vehicle development. , 2016, , .		33
17	Expert system for automated bone age determination. <i>Expert Systems With Applications</i> , 2016, 50, 75-88.	4.4	32
18	Atmospheric flow field models applicable for aircraft endurance extension. <i>Progress in Aerospace Sciences</i> , 2013, 61, 1-25.	6.3	31

#	ARTICLE	IF	CITATIONS
19	A novel approach for optimal trajectory design with multiple operation modes of propulsion system, part 1. Acta Astronautica, 2020, 172, 151-165.	1.7	30
20	Coordinated Model Predictive Control of Aircraft Gas Turbine Engine and Power System. Journal of Guidance, Control, and Dynamics, 2017, 40, 2538-2555.	1.6	29
21	Reference Governor Strategies for Vehicle Rollover Avoidance. IEEE Transactions on Control Systems Technology, 2018, 26, 1954-1969.	3.2	29
22	Wind-field reconstruction using flight data. , 2008, , .		27
23	Gyroscopic stabilisation of unstable vehicles: configurations, dynamics, and control. Vehicle System Dynamics, 2008, 46, 247-260.	2.2	27
24	A Finite State Machine Based Automated Driving Controller and its Stochastic Optimization. , 2017, , .		24
25	Attitude Control of a 2U Cubesat by Magnetic and Air Drag Torques. IEEE Transactions on Control Systems Technology, 2019, 27, 1047-1059.	3.2	22
26	Formation control of multiple vehicles using dynamic surface control and hybrid systems. International Journal of Control, 2003, 76, 913-923.	1.2	21
27	Open loop pitch control of a flapping wing micro-air vehicle using a tail and control mass. , 2010, , .		21
28	Longitudinal Flight Dynamics of Flapping-Wing Micro Air Vehicles. Journal of Guidance, Control, and Dynamics, 2012, 35, 1115-1131.	1.6	18
29	Distributed Model Predictive Control for More Electric Aircraft Subsystems Operating at Multiple Time Scales. IEEE Transactions on Control Systems Technology, 2020, 28, 2177-2190.	3.2	17
30	Envelopes for Flight Through Stochastic Gusts. Journal of Guidance, Control, and Dynamics, 2013, 36, 1464-1476.	1.6	16
31	A novel approach for optimal trajectory design with multiple operation modes of propulsion system, part 2. Acta Astronautica, 2020, 172, 166-179.	1.7	16
32	Persistent visitation under revisit constraints. , 2013, , .		15
33	Stochastic Predictive Control for Partially Observable Markov Decision Processes With Time-Joint Chance Constraints and Application to Autonomous Vehicle Control. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2019, 141, .	0.9	15
34	Formation control with collision avoidance. , 2011, , .		14
35	Decision making in dynamic and interactive environments based on cognitive hierarchy theory, Bayesian inference, and predictive control. , 2019, , .		14
36	Model-free Learning to Avoid Constraint Violations: An Explicit Reference Governor Approach. , 2019, , .		14

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37	Persistent Visitation with Fuel Constraints. <i>Procedia, Social and Behavioral Sciences</i> , 2012, 54, 1037-1046.	0.5	13
38	A hierarchical control architecture for mobile offshore bases. <i>Marine Structures</i> , 2000, 13, 459-476.	1.6	12
39	Automated classification system for Bone Age X-ray images. , 2012, , .		12
40	Perpetual Dynamic Soaring in Linear Wind Shear. <i>Journal of Guidance, Control, and Dynamics</i> , 2014, 37, 1712-1716.	1.6	12
41	Predictive propulsion and power control for large transient power loads in a More Electric Aircraft. , 2017, , .		11
42	Real-time optimal path planning and wind estimation using Gaussian process regression for precision airdrop. , 2017, , .		11
43	UAVs Dynamic Mission Management in Adversarial Environments. <i>International Journal of Aerospace Engineering</i> , 2009, 2009, 1-10.	0.5	10
44	Proportional Navigation: Optimal Homing and Optimal Evasion. <i>SIAM Review</i> , 2015, 57, 611-624.	4.2	10
45	Nonlinear Dynamic Inversion of a Flexible Aircraft. <i>IFAC-PapersOnLine</i> , 2016, 49, 338-342.	0.5	10
46	Task selection for radar resource management in dynamic environments. <i>Journal of Engineering</i> , 2018, 2018, 1-9.	0.6	10
47	Integrated/coordinated control of aircraft gas turbine engine and electrical power system: Towards large electrical load handling. , 2016, , .		9
48	Optimal path planning for uncertain exploration. , 2009, , .		8
49	Game Theory-Based Traffic Modeling for Calibration of Automated Driving Algorithms. <i>Lecture Notes in Control and Information Sciences</i> , 2019, , 89-106.	0.6	8
50	A Traffic Simulation Model with Interactive Drivers and High-fidelity Car Dynamics. <i>IFAC-PapersOnLine</i> , 2019, 51, 384-389.	0.5	8
51	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.	3.6	8
52	Rapid uncertainty propagation and chance-constrained path planning for small unmanned aerial vehicles. <i>Advanced Control for Applications</i> , 2020, 2, e23.	0.8	8
53	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.	1.1	7
54	Optimally-informative path planning for dynamic Bayesian classification. <i>Optimization Letters</i> , 2012, 6, 1627-1642.	0.9	7

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55	Pursuit-evasion games in the presence of a line segment obstacle. , 2014, , .		7
56	Scaling of Airplane Dynamic Response to Stochastic Gusts. Journal of Aircraft, 2014, 51, 1554-1566.	1.7	7
57	Model-free optimal control based automotive control system falsification. , 2017, , .		7
58	Control of Gear Ratio and Slip in Continuously Variable Transmissions: A Model Predictive Control Approach. , 2017, , .		7
59	Optimized Design of Multi-Speed Transmissions for Battery Electric Vehicles. , 2019, , .		7
60	Stochastic Driver Modeling and Validation with Traffic Data. , 2019, , .		7
61	Hierarchical Optimization of Speed and Gearshift Control for Battery Electric Vehicles Using Preview Information. , 2020, , .		7
62	Chance-constrained controller state and reference governor. Automatica, 2021, 133, 109864.	3.0	7
63	Model-free Learning for Safety-critical Control Systems: A Reference Governor Approach. , 2020, , .		7
64	Mixed-initiative nested classification by optimal thresholding. , 2011, , .		6
65	Time Shift Governor for Coordinated Control of Two Spacecraft Formations. IFAC-PapersOnLine, 2016, 49, 296-301.	0.5	6
66	Parameter Governors for Coordinated Control of n-Spacecraft Formations. Journal of Guidance, Control, and Dynamics, 2017, 40, 3020-3025.	1.6	6
67	Incorporating periodic and non-periodic natural motion trajectories into constrained invariance-based spacecraft relative motion planning. , 2017, , .		6
68	On Closed-loop Lyapunov Stability with Minimum-time MPC Feedback Laws for Discrete-time Systems. , 2019, , .		6
69	LQ control of unknown discrete-time linear systemsâ€”A novel approach and a comparison study. Optimal Control Applications and Methods, 2019, 40, 265-291.	1.3	6
70	Energy-Efficient Autonomous Vehicle Control Using Reinforcement Learning and Interactive Traffic Simulations. , 2020, , .		6
71	A combined Tabu search and 2-opt heuristic for multiple vehicle routing. , 2010, , .		5
72	Stability derivatives for a flapping wing MAV in a hover condition using local averaging. , 2011, , .		5

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73	Stability analysis of stochastic integer optimization problems. , 2014, , .		5
74	Stability Analysis of Runway Schedules. IEEE Transactions on Intelligent Transportation Systems, 2016, 17, 3380-3390.	4.7	5
75	Distributed MPC via ADMM for Coordination and Control of More Electric Aircraft Subsystems. , 2017, , .		5
76	Continuum Deformation of a Multi-Quadcopter System in a Payload Delivery Mission. IFAC-PapersOnLine, 2017, 50, 3455-3462.	0.5	5
77	Action Governor for Discrete-Time Linear Systems With Non-Convex Constraints. , 2021, 5, 121-126.		5
78	Coordinated Receding-Horizon Control of Battery Electric Vehicle Speed and Gearshift Using Relaxed Mixed-Integer Nonlinear Programming. IEEE Transactions on Control Systems Technology, 2022, 30, 1473-1483.	3.2	5
79	Energy-Efficient Control Approach for Automated HEV and BEV With Short-Horizon Preview Information. , 2018, , .		5
80	Beating humans in a penny-matching game by leveraging cognitive hierarchy theory and Bayesian learning. , 2020, , .		5
81	Safe Learning Reference Governor: Theory and Application to Fuel Truck Rollover Avoidance. ASME Journal of Autonomous Vehicles and Systems, 2021, 1, .	0.6	5
82	Cooperation-Aware Decision Making for Autonomous Vehicles in Merge Scenarios. , 2021, , .		5
83	Dynamic sensor activation for event diagnosis. , 2009, , .		4
84	Language-based minimization of sensor activation for event diagnosis. , 2010, , .		4
85	Radar resource management: Dynamic programming and dynamic finite state machines. , 2013, , .		4
86	Stability analysis of multi-objective planning problems for unmanned aircraft. , 2015, , .		4
87	Optimal Configuration of Alarm Sensors for Monitoring Mobile Ergodic Markov Phenomena on Arbitrary Graphs. IEEE Sensors Journal, 2015, 15, 3622-3634.	2.4	4
88	Dominance in pursuit-evasion games with uncertainty. , 2015, , .		4
89	Unpredictably Dynamic Environment Patrolling. Unmanned Systems, 2017, 05, 223-236.	2.7	4
90	Detection-averse optimal and receding-horizon control for Markov decision processes. Automatica, 2020, 122, 109278.	3.0	4

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91	Full State Feedback Foiling Control for America's Cup Catamarans. IEEE Transactions on Control Systems Technology, 2021, 29, 1-17.	3.2	4
92	Modeling and optimizing military air operations. , 2009, , .		3
93	Sequential bayesian classification decisions for mobile sensors. , 2010, , .		3
94	Safety Margins for Flight Through Stochastic Gusts. Journal of Guidance, Control, and Dynamics, 2014, 37, 2026-2030.	1.6	3
95	Dominance regions in the Homicidal Chauffeur Problem. , 2016, , .		3
96	Tractable Stochastic Predictive Control for Partially Observable Markov Decision Processes with Time-Joint Chance Constraints. , 2018, , .		3
97	Optimal Control Based Falsification of Unknown Systems with Time Delays: A Gasoline Engine A/F Ratio Control Case Study. IFAC-PapersOnLine, 2018, 51, 252-257.	0.5	3
98	Rapid Uncertainty Propagation and Chance-Constrained Trajectory Optimization for Small Unmanned Aerial Vehicles. , 2018, , .		3
99	Invariance-based Spacecraft Relative Motion Planning Incorporating Bounded Disturbances and Minimum Thrust Constraints. , 2018, , .		3
100	An Analytical Safe Approximation to Joint Chance-Constrained Programming With Additive Gaussian Noises. IEEE Transactions on Automatic Control, 2021, 66, 5490-5497.	3.6	3
101	Vision-Based Autonomous Driving: A Model Learning Approach. , 2020, , .		3
102	The verification of codiagnosability in the case of dynamic observations. , 2009, , .		2
103	Discrete event modeling of heterogeneous human operator team in classification task. , 2010, , .		2
104	Communication-constrained distributed task assignment. , 2011, , .		2
105	A homing guidance law for binary range-rate measurements. , 2013, , .		2
106	Game formulation of multiteam target assignment and suppression mission. IEEE Transactions on Aerospace and Electronic Systems, 2014, 50, 1234-1248.	2.6	2
107	Binary Range-Rate Measurements and Homing Guidance. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2015, 137, .	0.9	2
108	Stability analysis of optimal runway schedules. , 2015, , .		2

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109	Robustness of communication links for teams of unmanned aircraft by sensitivity analysis of minimum spanning trees. , 2016, , .		2
110	Stability and Criticality Analysis for Integer Linear Programs With Markovian Problem Data. IEEE Transactions on Automatic Control, 2016, 61, 1466-1476.	3.6	2
111	A Study on GPU-Enabled Lambert's Problem Solution for Space Targeting Missions. , 2018, , .		2
112	Scalar Reference Governor for Constrained Maneuver and Shape Control of Nonlinear Multibody Aircraft. IFAC-PapersOnLine, 2019, 52, 819-824.	0.5	2
113	Fuzzy Encoded Markov Chains: Overview, Observer Theory, and Applications. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 116-130.	5.9	2
114	Improving autonomous vehicle inâ€traffic safety using learningâ€based action governor. Advanced Control for Applications, 2022, 4, .	0.8	2
115	Mixed-initiative nested classification for n team members. , 2012, , .		1
116	Optimal multivariate classification by linear thresholding. , 2012, , .		1
117	Path planning for information collection tasks using bond-energy algorithm. , 2012, , .		1
118	A greedy policy for fleet-level radar resource management. , 2013, , .		1
119	Homing Guidance Using Spatially Quantized Signals. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2017, 139, .	0.9	1
120	A vehicle routing problem with dynamic demands and restricted failures solved using stochastic predictive control. , 2019, , .		1
121	A Model-Based Approach to the Estimation and Control of a Continuously Variable Transmission. IEEE Transactions on Control Systems Technology, 2020, 28, 1940-1947.	3.2	1
122	Resilient Physics-Based Traffic Congestion Control. , 2020, , .		1
123	Spacecraft Relative Motion Planning Using Chained Chance-Constrained Admissible Sets. , 2020, , .		1
124	Robust Action Governor for Discrete-Time Piecewise Affine Systems With Additive Disturbances. , 2022, 6, 950-955.		1
125	Set-Theoretic Failure Mode Reconfiguration for Stuck Actuators. , 2022, 6, 1316-1321.		1
126	Improving classification performance through kinematic decisions. , 2013, , .		1

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127	Trajectory Optimization for Falsification:A Case Study of Vehicle Rollover Test Generation Based on Black-box Models. IFAC-PapersOnLine, 2020, 53, 14279-14284.	0.5	1
128	Stochastic approximation to optimize the performance of human operators. , 2010, , .		0
129	A new measure of solution quality for combinatorial task assignment problems. , 2010, , .		0
130	Optimal fusion rules in team classification under three decision structures. , 2013, , .		0
131	Strategic Path Planning by Sequential Parametric Bayesian Decisions. International Journal of Advanced Robotic Systems, 2013, 10, 390.	1.3	0
132	Informative Path Planning for Improving Classification Performance through Kinematic Decisions. Unmanned Systems, 2014, 02, 143-156.	2.7	0
133	Path planning for information collection in contested environments using marsupial systems. , 2017, , .		0
134	Coordinated Model Predictive Control of Aircraft Gas Turbine Engine with Simplified Electrical System Model. , 2018, , .		0
135	Reply by the Authors to M. Khosravi and A. B. Novinzadeh. AIAA Journal, 2019, 57, 2648-2648.	1.5	0
136	Multi-mode Controller for Propellantless Spacecraft Translational Maneuvering Through Orientation Changes Only. IFAC-PapersOnLine, 2019, 52, 825-830.	0.5	0
137	Recomposable restricted finite state machines: definition and solution approaches. International Journal of Control, 2020, 93, 2814-2823.	1.2	0
138	Explicit Reference Governor for Constrained Maneuver and Shape Control of a Seven-State Multibody Aircraft. , 2020, , .		0
139	Triggered Measurements in Markov Processes for Entropy-Constrained State Estimation with Application to Precision Agriculture. , 2020, , .		0