

Tristan Perez

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5989820/publications.pdf>

Version: 2024-02-01

87
papers

3,475
citations

249298

26
h-index

162838

57
g-index

88
all docs

88
docs citations

88
times ranked

2827
citing authors

#	ARTICLE	IF	CITATIONS
1	On the tuning of a nonlinear energyâ€based regulator for the positioning of a fully actuated surface marine craft. IET Control Theory and Applications, 2021, 15, 850-860.	1.2	0
2	Inverse Open-Loop Noncooperative Differential Games and Inverse Optimal Control. IEEE Transactions on Automatic Control, 2020, 65, 897-904.	3.6	27
3	Performance improvements of a sweet pepper harvesting robot in protected cropping environments. Journal of Field Robotics, 2020, 37, 1197-1223.	3.2	59
4	Online inverse optimal control for control-constrained discrete-time systems on finite and infinite horizons. Automatica, 2020, 120, 109109.	3.0	21
5	Parametric modelling of interacting hydrodynamic forces in 3 DOF for underwater vehicles operating in close proximity. Ocean Engineering, 2020, 203, 107231.	1.9	5
6	Tracking Control of Marine Craft in the port-Hamiltonian Framework: A Virtual Differential Passivity Approach. , 2019, , .		2
7	Efficacy of Mechanical Weeding Tools: a study into alternative weed management strategies enabled by robotics. IEEE Robotics and Automation Letters, 2018, , 1-1.	3.3	30
8	A rapidly deployable classification system using visual data for the application of precision weed management. Computers and Electronics in Agriculture, 2018, 148, 107-120.	3.7	17
9	Finite-horizon inverse optimal control for discrete-time nonlinear systems. Automatica, 2018, 87, 442-446.	3.0	34
10	Online Inverse Optimal Control on Infinite Horizons. , 2018, , .		10
11	Dual-particle-filtering for Recursive Estimation of Agricultural-machinery Dynamics. IFAC-PapersOnLine, 2018, 51, 658-663.	0.5	1
12	Internal Model Control for Rudder Roll Stabilisation and Course Keeping of a Surface Marine Craft. IFAC-PapersOnLine, 2018, 51, 457-462.	0.5	2
13	Detection of Parametric Roll Resonance using Bayesian Discrete-Frequency Model Selection. IFAC-PapersOnLine, 2018, 51, 444-449.	0.5	1
14	Parametric Modelling of Interacting Hydrodynamic Forces in Underwater Vehicles Operating in Close Proximity. IFAC-PapersOnLine, 2018, 51, 92-97.	0.5	1
15	Bayesian Inference and Prediction of Wave-induced Ship Motion based on Discrete-frequency Model Approximations. IFAC-PapersOnLine, 2018, 51, 104-109.	0.5	3
16	An Inverse Differential Game Approach to Modelling Bird Mid-Air Collision Avoidance Behaviours. IFAC-PapersOnLine, 2018, 51, 754-759.	0.5	7
17	Low-level collision risk modelling for unmanned aircraft integration and management. , 2018, , .		8
18	Fruit Quantity and Ripeness Estimation Using a Robotic Vision System. IEEE Robotics and Automation Letters, 2018, 3, 2995-3002.	3.3	75

#	ARTICLE	IF	CITATIONS
19	Computation of regular friends for output-nulling and reachability subspaces of linear time-invariant descriptor systems. , 2018, , .		0
20	Trajectory tracking passivity-based control for marine vehicles subject to disturbances. Journal of the Franklin Institute, 2017, 354, 2167-2182.	1.9	45
21	Autonomous Sweet Pepper Harvesting for Protected Cropping Systems. IEEE Robotics and Automation Letters, 2017, 2, 872-879.	3.3	151
22	Peduncle Detection of Sweet Pepper for Autonomous Crop Harvesting”Combined Color and 3-D Information. IEEE Robotics and Automation Letters, 2017, 2, 765-772.	3.3	76
23	Mixtures of Lightweight Deep Convolutional Neural Networks: Applied to Agricultural Robotics. IEEE Robotics and Automation Letters, 2017, 2, 1344-1351.	3.3	112
24	Robot for weed species plant”specific management. Journal of Field Robotics, 2017, 34, 1179-1199.	3.2	112
25	A transplantable system for weed classification by agricultural robotics. , 2017, , .		4
26	Inverse Noncooperative Dynamic Games * *This work has been conducted under the Australian Research Council Linkage Project LP130100483 with the support of Boeing Research and Technology Australia. IFAC-PapersOnLine, 2017, 50, 11788-11793.	0.5	11
27	Eigenstructure assignment for the position regulation of a fully-actuated marine craft * *This work was partially supported by the Australian Research Council through the Discovery Project DP140100896.. IFAC-PapersOnLine, 2017, 50, 12398-12403.	0.5	1
28	A port-Hamiltonian approach to exponential stabilisation and disturbance rejection of a DC-DC buck converter with a nonlinear load. , 2017, , .		0
29	Inverse noncooperative differential games. , 2017, , .		8
30	On the tuning of nested-structure dynamic-positioning control of a marine craft. , 2017, , .		0
31	DeepFruits: A Fruit Detection System Using Deep Neural Networks. Sensors, 2016, 16, 1222.	2.1	717
32	Visual detection of occluded crop: For automated harvesting. , 2016, , .		43
33	Inverse two-player zero-sum dynamic games. , 2016, , .		7
34	Discrete-time inverse optimal control with partial-state information: A soft-optimality approach with constrained state estimation. , 2016, , .		10
35	A Dynamic Model for Underwater Vehicle Maneuvering Near a Free Surface**The authors gratefully acknowledge the sponsorship of the Office of Naval Research under Grant No. N00014-14-1-0651.. IFAC-PapersOnLine, 2016, 49, 68-73.	0.5	6
36	Ship Collision Avoidance and COLREGS Compliance Using Simulation-Based Control Behavior Selection With Predictive Hazard Assessment. IEEE Transactions on Intelligent Transportation Systems, 2016, 17, 3407-3422.	4.7	208

#	ARTICLE	IF	CITATIONS
37	Unmanned aerial surveillance system for hazard collision avoidance in autonomous shipping. , 2016, , . Ship Collision Avoidance Using Scenario-Based Model Predictive Control**This work was supported by the Research Council of Norway, Statoil, DNV GL and Sintef through the Centers of Excellence funding scheme, Project number 223254 - Centre for Autonomous Marine Operations and Systems (NTNU-AMOS), and the Research Council of Norway, DNV GL, Kongsberg Maritime and Maritime Robotics through the MAROFF knowledge project 244116 Sensor Fusion and Collision Avoidance for Autonomous Surface Vessels.. IFAC-PapersOnLine, 2016, 49, 14-21.		20
38	Sweet pepper pose detection and grasping for automated crop harvesting. , 2016, , .	0.5	20
39	Strategies for Pre-Emptive Mid-Air Collision Avoidance in Budgerigars. PLoS ONE, 2016, 11, e0162435.	1.1	9
41	Ship Seakeeping Operability, Motion Control, and Autonomy - A Bayesian Perspective. IFAC-PapersOnLine, 2015, 48, 217-222.	0.5	4
42	Boarding Control System - for Improved Accessibility to Offshore Wind Turbines. IFAC-PapersOnLine, 2015, 48, 229-234.	0.5	1
43	Passivity-based Trajectory-tracking for Marine Craft with Disturbance Rejection. IFAC-PapersOnLine, 2015, 48, 19-24.	0.5	7
44	Energy-based motion control of a slender hull unmanned underwater vehicle. Ocean Engineering, 2015, 104, 604-616.	1.9	41
45	Smooth stabilisation of nonholonomic robots subject to disturbances. , 2015, , .		8
46	Energy-based guidance of an underactuated unmanned underwater vehicle on a helical trajectory. Control Engineering Practice, 2015, 44, 138-156.	3.2	27
47	Bringing the Farmer Perspective to Agricultural Robots. , 2015, , .		15
48	Boarding control system for improved accessibility to offshore wind turbines: Full-scale testing. Control Engineering Practice, 2015, 45, 207-218.	3.2	12
49	Control of an underactuated-slender-hull unmanned underwater vehicle using Port-Hamiltonian theory. , 2013, , .		4
50	Energy-based Positioning Control of Underactuated Vehicles using Manifold Regulation. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 9-16.	0.4	0
51	Energy-based Nonlinear Control of Ship Roll Gyro-stabiliser with Precession Angle Constraints. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 328-333.	0.4	8
52	Energy-based Motion Control of Marine Vehicles using Interconnection and Damping Assignment Passivity-based Control â€” A Survey. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 316-327.	0.4	7
53	Manoeuvring Control of Underactuated Surface Vessels using Manifold Regulation for Port-Hamiltonian Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 422-428.	0.4	3
54	Robust speed tracking control of synchronous motors using immersion and invariance. , 2012, , .		3

#	ARTICLE	IF	CITATIONS
55	Total energy shaping of a class of underactuated Port-Hamiltonian Systems using a new set of closed-loop potential shape variables. , 2012, , .		1
56	Ship roll damping control. Annual Reviews in Control, 2012, 36, 129-147.	4.4	97
57	Dynamic positioning of marine craft using a port-Hamiltonian framework. Automatica, 2012, 48, 851-856.	3.0	66
58	A Nonlinear Observer for Estimating Transverse Stability Parameters of Marine Surface Vessels. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 2967-2971.	0.4	3
59	Practical aspects of frequency-domain identification of dynamic models of marine structures from hydrodynamic data. Ocean Engineering, 2011, 38, 426-435.	1.9	82
60	A Lagrangian approach to nonlinear modeling of anti-roll tanks. Ocean Engineering, 2011, 38, 341-359.	1.9	19
61	On Evaluation of Robust Autonomy for Uninhabited Vehicles and Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 348-353.	0.4	1
62	Port-Hamiltonian Theory of Motion Control for Marine Craft. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 201-206.	0.4	15
63	Damping Structure Selection in Nonlinear Ship Manoeuvring Models. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 73-78.	0.4	1
64	Time-Domain Hydroelastic Analysis of a Flexible Marine Structure Using State-Space Models. Journal of Offshore Mechanics and Arctic Engineering, 2009, 131, .	0.6	19
65	Kalman filtering for positioning and heading control of ships and offshore rigs. IEEE Control Systems, 2009, 29, 32-46.	1.0	210
66	Antispin Thrust Allocation for Marine Vessels. IEEE Transactions on Control Systems Technology, 2009, 17, 1257-1269.	3.2	19
67	Analysis of Ship Roll Gyrostabiliser Control. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 310-315.	0.4	20
68	Parameter Estimation of Structural Commodity Price Models. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 1429-1434.	0.4	0
69	Anti-wind-up Designs for Dynamic Positioning of Marine Vehicles with Control Allocation. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 243-248.	0.4	4
70	A Matlab Toolbox for Parametric Identification of Radiation-Force Models of Ships and Offshore Structures. Modeling, Identification and Control, 2009, 30, 1-15.	0.6	134
71	Constrained Control Design for Dynamic Positioning of Marine Vehicles with Control Allocation. Modeling, Identification and Control, 2009, 30, 57-70.	0.6	40
72	Constrained predictive control of ship fin stabilizers to prevent dynamic stall. Control Engineering Practice, 2008, 16, 482-494.	3.2	77

#	ARTICLE	IF	CITATIONS
73	Hybrid frequency-time domain models for dynamic response analysis of marine structures. Ocean Engineering, 2008, 35, 685-705.	1.9	300
74	Time- vs. Frequency-domain Identification of Parametric Radiation Force Models for Marine Structures at Zero Speed. Modeling, Identification and Control, 2008, 29, 1-19.	0.6	113
75	Joint Identification of Infinite-Frequency Added Mass and Fluid-Memory Models of Marine Structures. Modeling, Identification and Control, 2008, 29, 93-102.	0.6	21
76	MODELLING AND PERFORMANCE OF AN ACTIVE HEAVE COMPENSATOR FOR OFFSHORE OPERATIONS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2007, 40, 193-198.	0.4	0
77	A NOVEL MANOEUVERING MODEL BASED ON LOW-ASPECT-RATIO LIFT THEORY AND LAGRANGIAN MECHANICS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2007, 40, 229-234.	0.4	5
78	MIMO AND SISO IDENTIFICATION OF RADIATION FORCE TERMS FOR MODELS OF MARINE STRUCTURES IN WAVES. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2007, 40, 235-242.	0.4	3
79	Time Domain Hydroelastic Analysis of a Flexible Marine Structure Using State-Space Models. , 2007, , .		4
80	FREQUENCY-MOTIVATED OBSERVER DESIGN FOR THE PREDICTION OF PARAMETRIC ROLL RESONANCE. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2007, 40, 57-62.	0.4	11
81	Kinematic Models for Manoeuvring and Seakeeping of Marine Vessels. Modeling, Identification and Control, 2007, 28, 19-30.	0.6	47
82	Nonlinear Container Ship Model for the Study of Parametric Roll Resonance. Modeling, Identification and Control, 2007, 28, 87-103.	0.6	42
83	An Overview of the Marine Systems Simulator (MSS): A Simulink Toolbox for Marine Control Systems. Modeling, Identification and Control, 2006, 27, 259-275.	0.6	58
84	On optimal control of constrained linear systems with imperfect state information and stochastic disturbances. International Journal of Robust and Nonlinear Control, 2004, 14, 379-393.	2.1	10
85	Constrained Control to Prevent Dynamic Stall of Ship Fin Stabilizers. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2003, 36, 139-144.	0.4	1
86	Analysis of Performance and Applicability of Rudder-Based Stabilizers. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2003, 36, 151-156.	0.4	2
87	DCMV A Matlab/SIMULINK Â® Toolbox for Dynamics and Control of Marine Vehicles. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2003, 36, 43-48.	0.4	2