

Hichem Arioui

List of Publications by Year in descending order

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80
papers

589
citations

933410

10
h-index

888047

17
g-index

83
all docs

83
docs citations

83
times ranked

268
citing authors

#	ARTICLE	IF	CITATIONS
1	Motorcycle State Estimation and Tire Cornering Stiffness Identification Applied to Road Safety: Using Observer-Based Identifiers. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 7017-7027.	8.0	3
2	Towards Kinematics From Motion: Unknown Input Observer and Dynamic Extension Approach. , 2022, 6, 1340-1345.		3
3	Unknown Dynamics Decoupling to Overcome Unmeasurable Premise Variables in Takagi-Sugeno Observer Design. , 2021, 5, 61-66.		3
4	Quasi-LPV Unknown Input Observer with Nonlinear Outputs: Application to Motorcycles. , 2021, , .		0
5	Structure from Motion with variable focal length: Interconnected fuzzy observer. , 2021, , .		0
6	Interconnected Observers for a Powered Two-Wheeled Vehicles: Both Lateral and Longitudinal Dynamics Estimation. , 2019, , .		3
7	Full Order Observer With Unmatched Constraint: Unknown Parameters Identification. , 2019, 3, 1026-1031.		0
8	Steering and Lateral Motorcycle Dynamics Estimation: Validation of Luenberger LPV Observer Approach. IEEE Transactions on Intelligent Vehicles, 2019, 4, 277-286.	12.7	5
9	Conservatism reduction for Nonlinear Takagi-Sugeno Observer : Interconnected System Approach. , 2019, , .		0
10	Depth Estimation for a Point Feature: Structure from motion & Stability Analysis. , 2019, , .		1
11	Vision-Based Lane Crossing Point Tracking for Motorcycles. , 2019, , .		2
12	Adaptive Fuzzy PID Control for a Class of Uncertain MIMO Nonlinear Systems with Dead-zone Inputs™ Nonlinearities. Iranian Journal of Science and Technology - Transactions of Electrical Engineering, 2018, 42, 21-39.	2.3	13
13	Powered Two-Wheeled Vehicles Steering Behavior Study: Vision-Based Approach. , 2018, , .		0
14	Adaptive Observer for Motorcycle State Estimation and Tire Cornering Stiffness Identification. , 2018, , .		3
15	Inverse Perspective Mapping Roll Angle Estimation for Motorcycles. , 2018, , .		4
16	Road Geometry and Steering Reconstruction for Powered Two Wheeled Vehicles. , 2018, , .		2
17	Motorcycle inertial parameters identification via algorithmic computation of state and design sensitivities. , 2018, , .		1
18	Simultaneous Parameters Identification and State Estimation based on Unknown Input Observer for a class of LPV Systems. , 2018, , .		0

#	ARTICLE	IF	CITATIONS
19	Image-Based Lateral Position, Steering Behavior Estimation, and Road Curvature Prediction for Motorcycles. IEEE Robotics and Automation Letters, 2018, 3, 2694-2701.	5.1	12
20	Static output feedback control for lane change maneuver. , 2018, , .		1
21	Adaptive fuzzy PID control for a quadrotor stabilisation. IOP Conference Series: Materials Science and Engineering, 2018, 312, 012002.	0.6	2
22	Parametric identification of a powered two-wheeled vehicles : Algebraic approach. , 2017, , .		4
23	PI observer robust fault estimation for motorcycle lateral dynamics. , 2017, , .		1
24	Toward a Robust Motorcycle Braking. IEEE Transactions on Control Systems Technology, 2017, 25, 1052-1059.	5.2	3
25	Lateral & Steering Dynamics Estimation for Single Track Vehicle: Experimental Tests * *This work is supported by National Agency of Research under the framework VIROLO+... IFAC-PapersOnLine, 2017, 50, 3400-3405.	0.9	6
26	Rider weight consideration for observer design with an application to the estimation of the lateral motorcycle dynamics and rider's action. , 2017, , .		2
27	An adaptive fuzzy PID control for a class of SISO uncertain nonlinear systems. , 2017, , .		3
28	Cascaded flatness-based observation approach for lateral motorcycle dynamics estimation. , 2017, , .		4
29	Mutiple-gradient descent algorithm for parametric identification of a powered two-wheeled vehicles. , 2017, , .		2
30	Estimation of lateral motorcycle dynamics and rider action with Luenberger observer. , 2016, , .		12
31	An adaptive fuzzy PID control for a class of uncertain nonlinear underactuated systems. , 2016, , .		0
32	Unknown-input observer design for motorcycle lateral dynamics: TS approach. Control Engineering Practice, 2016, 54, 12-26.	5.5	19
33	Lateral motorcycle dynamics and rider action estimation: An LPV unknown input observer approach. , 2016, , .		9
34	Observer-based controller and separation principle for TS systems with unmeasurable premise variables. , 2016, , .		2
35	On the estimation of longitudinal dynamics of powered two-wheeled vehicles. , 2015, , .		7
36	Analysis of the leaning limit dynamics of Powered Two Wheeled vehicles. , 2014, , .		0

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37	An Unknown-Input HOSM Approach to Estimate Lean and Steering Motorcycle Dynamics. IEEE Transactions on Vehicular Technology, 2014, 63, 3116-3127.	6.3	20
38	Estimation of Lateral Dynamics and Road Curvature for Two-Wheeled Vehicles: A HOSM Observer approach. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 2806-2811.	0.4	10
39	Motorcycle maximal safe speed in cornering situation. , 2013, , .		1
40	Dynamic modelling of a two-wheeled vehicle: Jourdain formalism. Vehicle System Dynamics, 2013, 51, 648-670.	3.7	16
41	Motorcycle lateral dynamic estimation and lateral tire-road forces reconstruction using sliding mode observer. , 2013, , .		5
42	Motorcycle Riding Simulator: How to Estimate Robustly the Rider's Action. IEEE Transactions on Vehicular Technology, 2013, 62, 80-88.	6.3	5
43	Observer design for motorcycle lean and steering dynamics estimation: A Takagi-Sugeno approach. , 2013, , .		17
44	Observer based controller for single track vehicles. , 2013, , .		4
45	Lean and steering motorcycle dynamics reconstruction: An unknown-input HOSMO approach. , 2013, , .		7
46	Proportional two Integral (P2I) observer synthesis for single track vehicle. , 2012, , .		2
47	Observer design for two-wheeled vehicle: A Takagi-Sugeno approach with unmeasurable premise variables. , 2011, , .		32
48	From Design to Experiments of a 2-DOF Vehicle Driving Simulator. IEEE Transactions on Vehicular Technology, 2011, 60, 357-368.	6.3	29
49	Review on single track vehicle and motorcycle simulators. , 2011, , .		10
50	Remote control of an assistive robot using force feedback. , 2011, , .		14
51	Force feedback stabilization for remote control of an assistive mobile robot. , 2011, , .		3
52	Force feedback control based on VGSTA for single track riding simulator. , 2011, , .		1
53	Rider Steer Torque Estimation for Motorcycle Riding Simulator. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 505-510.	0.4	1
54	Mechatronics, Design, and Modeling of a Motorcycle Riding Simulator. IEEE/ASME Transactions on Mechatronics, 2010, 15, 805-818.	5.8	33

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55	Motorcycle speed profile in cornering situation. , 2010, , .		11
56	Robust cascaded feedback linearizing control of nonholonomic mobile robot. , 2010, , .		0
57	2 DOF low cost platform for driving simulator: Modeling and control. , 2009, , .		10
58	Preventive Safety: Warning System for Control Loss of Two-Wheeled Vehicles. , 2009, , .		4
59	Advanced motorcycle-infrastructure-driver roll angle profile for loss control prevention. , 2009, , .		8
60	Modeling and identification of 2 DOF low cost platform for driving simulator: Experimental results. , 2009, , .		1
61	Design and Control of a Small-Clearance Driving Simulator. IEEE Transactions on Vehicular Technology, 2008, 57, 736-746.	6.3	61
62	Two Wheeled Vehicle Dynamics Synthesis for Real-Time Applications. AIP Conference Proceedings, 2008, , .	0.4	0
63	Parameters Identification for Motorcycle Simulator's Platform Characterization. AIP Conference Proceedings, 2008, , .	0.4	1
64	Cascaded predictive controller design for speed control and load torque rejection of induction motor. , 2008, , .		11
65	Suitable Two Wheeled Vehicle Dynamics Synthesis for Interactive Motorcycle Simulator. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 96-101.	0.4	6
66	A New Motorcycle Simulator Platform: Mechatronics Design, Dynamics Modeling and Control. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 4452-4457.	0.4	0
67	Design and Modeling of a New Motorcycle Riding Simulator. Proceedings of the American Control Conference, 2007, , .	0.0	20
68	DESIGN OF LOW-CLEARANCE MOTION PLATFORM FOR DRIVING SIMULATORS. , 2007, , 401-404.		0
69	Motorcycle Dynamic Model Synthesis for Two Wheeled Driving Simulator. , 2007, , .		10
70	Open-loop test and validation of a new two-wheeled vehicle riding simulator. , 2007, , .		0
71	Restitution movement for a low cost driving simulator. , 2006, , .		19
72	Transparent collaborative haptic simulation. , 2006, , .		0

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73	Transparent Collaborative Haptic Simulation. , 2006, , .		0
74	A Model-Based Controller for Interactive Delayed Haptic Feedback Virtual Environments. Journal of Intelligent and Robotic Systems: Theory and Applications, 2003, 37, 193-207.	3.4	14
75	A Smith-prediction based haptic feedback controller for time delayed virtual environments systems. , 2002, , .		17
76	A predictive wave-based approach for time delayed virtual environments haptics systems. , 0, , .		13
77	Master-model based time-delayed force feedback interaction: experimental results. , 0, , .		7
78	Classic and Adaptive Washout Comparison for a Low Cost Driving Simulator. , 0, , .		8
79	Motion cueing algorithms for small driving simulator. , 0, , .		20
80	Two-Wheeled Riding Simulator: From Design to Control. , 0, , 85-124.		0