

Mamoun F Abdel-Hafez

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6707211/publications.pdf>

Version: 2024-02-01

59
papers

1,158
citations

331670

21
h-index

414414

32
g-index

61
all docs

61
docs citations

61
times ranked

994
citing authors

#	ARTICLE	IF	CITATIONS
1	Observability of an integrated GPS/INS during maneuvers. IEEE Transactions on Aerospace and Electronic Systems, 2004, 40, 526-535.	4.7	115
2	Improved Battery SOC Estimation Accuracy Using a Modified UKF With an Adaptive Cell Model Under Real EV Operating Conditions. IEEE Transactions on Transportation Electrification, 2018, 4, 408-417.	7.8	104
3	An Instrumentation System Applied to Formation Flight. IEEE Transactions on Control Systems Technology, 2007, 15, 75-85.	5.2	62
4	Enhanced, Delay Dependent, Intelligent Fusion for INS/GPS Navigation System. IEEE Sensors Journal, 2014, 14, 1545-1554.	4.7	61
5	The Autocovariance Least-Squares Technique for GPS Measurement Noise Estimation. IEEE Transactions on Vehicular Technology, 2010, 59, 574-588.	6.3	53
6	An In-Pipe Leak Detection Robot With a Neural-Network-Based Leak Verification System. IEEE Sensors Journal, 2019, 19, 1153-1165.	4.7	50
7	A Novel Bias Detection Technique for Partial Discharge Localization in Oil Insulation System. IEEE Transactions on Instrumentation and Measurement, 2016, 65, 448-457.	4.7	49
8	Non-Linear Autoregressive Delay-Dependent INS/GPS Navigation System Using Neural Networks. IEEE Sensors Journal, 2017, 17, 1105-1115.	4.7	40
9	Enhancement in Li-Ion Battery Cell State-of-Charge Estimation Under Uncertain Model Statistics. IEEE Transactions on Vehicular Technology, 2016, 65, 4608-4618.	6.3	37
10	Toward High-Accuracy Estimation of Partial Discharge Location. IEEE Transactions on Instrumentation and Measurement, 2016, 65, 2145-2153.	4.7	34
11	Optimization of Intelligent Approach for Low-Cost INS/GPS Navigation System. Journal of Intelligent and Robotic Systems: Theory and Applications, 2014, 73, 325-348.	3.4	33
12	Estimating Vehicle State by GPS/IMU Fusion with Vehicle Dynamics. Journal of Intelligent and Robotic Systems: Theory and Applications, 2014, 74, 147-172.	3.4	30
13	Pipeline Inspection Gauge Position Estimation Using Inertial Measurement Unit, Odometer, and a Set of Reference Stations. ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part B: Mechanical Engineering, 2016, 2, .	1.1	27
14	Inertial Navigation System of Pipeline Inspection Gauge. IEEE Transactions on Control Systems Technology, 2020, 28, 609-616.	5.2	26
15	On the development of an inertial navigation error-budget system. Journal of the Franklin Institute, 2011, 348, 24-44.	3.4	24
16	Constrained low-cost GPS/INS filter with encoder bias estimation for ground vehicles ^{x3} applications. Mechanical Systems and Signal Processing, 2015, 58-59, 285-297.	8.0	24
17	Low-Cost Reduced Navigation System for Mobile Robot in Indoor/Outdoor Environments. IEEE Access, 2020, 8, 25014-25026.	4.2	24
18	Real-Time Implementation of GPS Aided Low-Cost Strapdown Inertial Navigation System. Journal of Intelligent and Robotic Systems: Theory and Applications, 2011, 61, 527-544.	3.4	22

#	ARTICLE	IF	CITATIONS
19	Performance enhancement of low-cost, high-accuracy, state estimation for vehicle collision prevention system using ANFIS. Mechanical Systems and Signal Processing, 2013, 41, 239-253.	8.0	22
20	Detection of Bias in GPS Satellites' Measurements: A Probability Ratio Test Formulation. IEEE Transactions on Control Systems Technology, 2014, 22, 1166-1173.	5.2	22
21	Multiple sensor fusion for mobile robot localization and navigation using the Extended Kalman Filter. , 2015, , .		22
22	Building a robust integrity monitoring algorithm for a low cost GPS-aided-INS system. International Journal of Control, Automation and Systems, 2010, 8, 1108-1122.	2.7	21
23	Mitigating the Effect of Noise Uncertainty on the Online State-of-Charge Estimation of Li-Ion Battery Cells. IEEE Transactions on Vehicular Technology, 2019, 68, 8593-8600.	6.3	21
24	The smooth variable structure filter: A comprehensive review. , 2021, 110, 102912.		21
25	A Hybrid Estimation-Based Technique for Partial Discharge Localization. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 8744-8753.	4.7	17
26	Attitude and Flapping Angles Estimation for a Small-Scale Flybarless Helicopter Using a Kalman Filter. IEEE Sensors Journal, 2015, 15, 2114-2122.	4.7	16
27	Predicting the Release of Chemotherapeutics From the Core of Polymeric Micelles Using Ultrasound. IEEE Transactions on Nanobioscience, 2015, 14, 378-384.	3.3	15
28	A Cascaded Approach for Quadrotor's Attitude Estimation. Procedia Technology, 2014, 15, 268-277.	1.1	14
29	Alleviating Dynamic Model Uncertainty Effects for Improved Battery SOC Estimation of EVs in Highly Dynamic Environments. IEEE Transactions on Vehicular Technology, 2021, 70, 6554-6566.	6.3	14
30	Accurate Estimation of Partial Discharge Location using Maximum Likelihood. , 2018, 2, 1-4.		11
31	A comparison of adaptive trajectory tracking controllers for wheeled mobile robots. , 2015, , .		10
32	An Adaptive Autotuned Polynomial-Based Extended Kalman Filter for Sensorless Surface Temperature Estimation of Li-Ion Battery Cells. IEEE Access, 2022, 10, 14038-14048.	4.2	10
33	On the GPS/IMU sensors's noise estimation for enhanced navigation integrity. Mathematics and Computers in Simulation, 2012, 86, 101-117.	4.4	9
34	Intelligent fault detection and fusion for INS/GPS navigation system. , 2013, , .		7
35	Identification of the Uncertainty Structure to Estimate the Acoustic Release of Chemotherapeutics From Polymeric Micelles. IEEE Transactions on Nanobioscience, 2017, 16, 609-617.	3.3	7
36	Multi-Model Investigation and Adaptive Estimation of the Acoustic Release of a Model Drug From Liposomes. IEEE Transactions on Nanobioscience, 2020, 19, 68-77.	3.3	7

#	ARTICLE	IF	CITATIONS
37	Optimization of intelligent-based approach for low-cost INS/GPS navigation system. , 2013, , .		6
38	Estimating vehicle state by GPS/IMU fusion with vehicle dynamics. , 2013, , .		6
39	Auto Takeoff and Precision Terminal-Phase Landing Using an Experimental Optical Flow Model for Global Positioning System/Inertial Navigation System Enhancement. ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part B: Mechanical Engineering, 2019, 5, .	1.1	6
40	GPS Measurement Noise Estimation in Non-Ideal Environments. Navigation, Journal of the Institute of Navigation, 2008, 55, 55-66.	2.8	5
41	ROS validation for non-holonomic differential robot modeling and control: Case study: Kobuki robot trajectory tracking controller. , 2017, , .		5
42	Modeling and Bias-Robust Estimation of the Acoustic Release of Chemotherapeutics from Liposomes. Journal of Biomedical Nanotechnology, 2019, 15, 162-169.	1.1	5
43	Low-cost, high-accuracy, state estimation for vehicle collision prevention system. , 2012, , .		4
44	State Estimation for a Small Scale Flybar-less Helicopter. Procedia Technology, 2014, 15, 258-267.	1.1	4
45	Hybrid Low-Cost Approach for Quadrotor Attitude Estimation. Journal of Computational and Nonlinear Dynamics, 2015, 10, .	1.2	4
46	Computationally Efficient State-of-Charge Estimation in Li-Ion Batteries Using Enhanced Dual-Kalman Filter. Energies, 2022, 15, 3717.	3.1	4
47	A High-Integrity and Efficient GPS Integer Ambiguity Resolution Method. Navigation, Journal of the Institute of Navigation, 2003, 50, 295-310.	2.8	3
48	Measuring the Acoustic Release of a Chemotherapeutic Agent from Folate-Targeted Polymeric Micelles. Journal of Nanoscience and Nanotechnology, 2018, 18, 5511-5519.	0.9	3
49	Intelligent attitude and flapping angles estimation of flybarless helicopters under near-hover conditions. Journal of the Franklin Institute, 2018, 355, 6830-6858.	3.4	3
50	Caged Quadrotor Drone for Inspection of Central HVAC Ducts. , 2019, , .		3
51	The Multiple-Hypothesis Wald Sequential Probability Ratio Test for GPS Integer Ambiguity Resolution. Navigation, Journal of the Institute of Navigation, 2004, 51, 231-247.	2.8	2
52	A sequential approach for fault detection and identification of vehicles' ultrasonic parking sensors. , 2011, , .		2
53	Real-Time Implementation of GPS Aided Low-Cost Strapdown Inertial Navigation System. , 2010, , 527-544.		2
54	The Autocovariance Least Squares Technique for GPS Interference/Jamming Detection. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 8990-8995.	0.4	1

#	ARTICLE	IF	CITATIONS
55	Enhanced EKF Method for State-of-Charge Estimation of Electric Vehicles' Li-ion Batteries under Highly Dynamic Power Profiles. , 2021, , .		1
56	A Multiple Hypothesis Wald Sequential Probability Ratio Test for Integer Ambiguity Resolution. , 2003, , .		0
57	Integrity monitoring of lowcost GPS-aided-INS systems. , 2008, , .		0
58	A Multihypothesis Sequential Probability Test for Fault Detection and Identification of Vehicles' Ultrasonic Parking Sensors. International Journal of Navigation and Observation, 2011, 2011, 1-11.	0.8	0
59	A multi-hypothesis sequential probability test for partial discharges localization in power transformers. , 2015, , .		0