Hassen Fourati

List of Publications by Year in descending order

38 papers	888 citations	623734 14 h-index	477307 29 g-index
38 all docs	38 docs citations	38 times ranked	812 citing authors

#	Article	IF	Citations
1	Fast Complementary Filter for Attitude Estimation Using Low-Cost MARG Sensors. IEEE Sensors Journal, 2016, 16, 6997-7007.	4.7	180
2	Heterogeneous Data Fusion Algorithm for Pedestrian Navigation via Foot-Mounted Inertial Measurement Unit and Complementary Filter. IEEE Transactions on Instrumentation and Measurement, 2015, 64, 221-229.	4.7	134
3	Fast Linear Quaternion Attitude Estimator Using Vector Observations. IEEE Transactions on Automation Science and Engineering, 2018, 15, 307-319.	5.2	84
4	A Nonlinear Filtering Approach for the Attitude and Dynamic Body Acceleration Estimation Based on Inertial and Magnetic Sensors: Bio-Logging Application. IEEE Sensors Journal, 2011, 11, 233-244.	4.7	81
5	Generalized Linear Quaternion Complementary Filter for Attitude Estimation From Multisensor Observations: An Optimization Approach. IEEE Transactions on Automation Science and Engineering, 2019, 16, 1330-1343.	5.2	59
6	A comparative analysis of attitude estimation for pedestrian navigation with smartphones. , 2015, , .		36
7	Posture and body acceleration tracking by inertial and magnetic sensing: Application in behavioral analysis of free-ranging animals. Biomedical Signal Processing and Control, 2011, 6, 94-104.	5.7	33
8	Attitude estimation for indoor navigation and augmented reality with smartphones. Pervasive and Mobile Computing, 2018, 46, 96-121.	3.3	30
9	A Super Fast Attitude Determination Algorithm for Consumer-Level Accelerometer and Magnetometer. IEEE Transactions on Consumer Electronics, 2018, 64, 375-381.	3.6	28
10	Attitude determination using a single sensor observation: analytic quaternion solutions and property discussion. IET Science, Measurement and Technology, 2017, 11, 731-739.	1.6	27
11	Critical Issues on Kalman Filter with Colored and Correlated System Noises. Asian Journal of Control, 2017, 19, 1905-1919.	3.0	25
12	On attitude estimation with smartphones. , 2017, , .		21
13	A real time forecasting tool for dynamic travel time from clustered time series. Transportation Research Part C: Emerging Technologies, 2017, 80, 216-238.	7.6	19
14	Location of turning ratio and flow sensors for flow reconstruction in large traffic networks. Transportation Research Part B: Methodological, 2019, 121, 21-40.	5.9	18
15	Optimal, Recursive and Sub-Optimal Linear Solutions to Attitude Determination from Vector Observations for GNSS/Accelerometer/Magnetometer Orientation Measurement. Remote Sensing, 2018, 10, 377.	4.0	15
16	Human Activities and Postures Recognition: From Inertial Measurements to Quaternion-Based Approaches. Sensors, 2019, 19, 4058.	3.8	14
17	Magnetic Field Gradient-Based EKF for Velocity Estimation in Indoor Navigation. Sensors, 2020, 20, 5726.	3.8	12
18	Recursive linear continuous quaternion attitude estimator from vector observations. IET Radar, Sonar and Navigation, 2018, 12, 1196-1207.	1.8	11

#	Article	IF	Citations
19	BiLSTM Network-Based Extended Kalman Filter for Magnetic Field Gradient Aided Indoor Navigation. IEEE Sensors Journal, 2022, 22, 4781-4789.	4.7	9
20	Density and flow reconstruction in urban traffic networks using heterogeneous data sources. , 2018, , .		6
21	Data fusionâ€based descriptor approach for attitude estimation under accelerated maneuvers. Asian Journal of Control, 2019, 21, 1433-1442.	3.0	6
22	Improving Inertial Velocity Estimation Through Magnetic Field Gradient-based Extended Kalman Filter. , 2019, , .		5
23	Behaviors classification based distance measuring system for pedestrians via a footâ€mounted inertial sensor. Asian Journal of Control, 2019, 21, 1483-1495.	3.0	5
24	Inertial Velocity Estimation for Indoor Navigation Through Magnetic Gradient-based EKF and LSTM Learning Model. , 2020, , .		5
25	Dynamic density and flow reconstruction in large-scale urban networks using heterogeneous data sources. Transportation Research Part C: Emerging Technologies, 2022, 137, 103569.	7.6	5
26	Urban network traffic state estimation using a data-based approach. IFAC-PapersOnLine, 2021, 54, 278-283.	0.9	3
27	Urban Transportation Mode Detection From Inertial and Barometric Data in Pedestrian Mobility. IEEE Sensors Journal, 2022, 22, 4772-4780.	4.7	3
28	Assessment of Radiation Effects on Attitude Estimation Processing for Autonomous Things. IEEE Transactions on Nuclear Science, 2022, 69, 1610-1617.	2.0	3
29	Adaptive control strategyâ€based reference model for spacecraft motion trajectory. International Journal of Adaptive Control and Signal Processing, 2015, 29, 639-652.	4.1	2
30	Special issue on â€œRecent Advances on Data Fusion, Estimation in Navigation and Controlâ€. Asian Journal of Control, 2019, 21, 1407-1408.	3.0	2
31	Q-Learning-Based Noise Covariance Adaptation in Kalman Filter for MARG Sensors Attitude Estimation. , 2022, , .		2
32	Corrections to â€œFast Complementary Filter for Attitude Estimation Using Low-Cost MARG Sensorsâ€. IEEE Sensors Journal, 2019, 19, 12511-12511.	4.7	1
33	Application of grey system theory to phosphorite sinter process: From modeling to control. Asian Journal of Control, 2021, 23, 13-22.	3.0	1
34	Average density estimation for urban traffic networks: Application to the Grenoble network. Transportation Research Part B: Methodological, 2021, 154, 21-43.	5.9	1
35	Generalized n-Dimensional Rigid Registration: Theory and Applications. IEEE Transactions on Cybernetics, 2023, 53, 927-940.	9.5	1
36	Dead-Reckoning Configurations Analysis for Marine Turtle Context in a Controlled Environment. IEEE Sensors Journal, 2022, 22, 12298-12306.	4.7	1

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37	Flow and Density Estimation in Grenoble Using Real Data. Engineering Proceedings, 2021, 5, .	0.4	0
38	Average density detectability in traffic networks using virtual road divisions. IFAC-PapersOnLine, 2020, 53, 17059-17064.	0.9	0