

Hassen Fourati

List of Publications by Year in descending order

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38
times ranked

812
citing authors

#	ARTICLE	IF	CITATIONS
1	Generalized n -Dimensional Rigid Registration: Theory and Applications. IEEE Transactions on Cybernetics, 2023, 53, 927-940.	9.5	1
2	Urban Transportation Mode Detection From Inertial and Barometric Data in Pedestrian Mobility. IEEE Sensors Journal, 2022, 22, 4772-4780.	4.7	3
3	BiLSTM Network-Based Extended Kalman Filter for Magnetic Field Gradient Aided Indoor Navigation. IEEE Sensors Journal, 2022, 22, 4781-4789.	4.7	9
4	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
5	Dead-Reckoning Configurations Analysis for Marine Turtle Context in a Controlled Environment. IEEE Sensors Journal, 2022, 22, 12298-12306.	4.7	1
6	Assessment of Radiation Effects on Attitude Estimation Processing for Autonomous Things. IEEE Transactions on Nuclear Science, 2022, 69, 1610-1617.	2.0	3
7	Q-Learning-Based Noise Covariance Adaptation in Kalman Filter for MARG Sensors Attitude Estimation. , 2022, , .		2
8	Application of grey system theory to phosphorite sinter process: From modeling to control. Asian Journal of Control, 2021, 23, 13-22.	3.0	1
9	Urban network traffic state estimation using a data-based approach. IFAC-PapersOnLine, 2021, 54, 278-283.	0.9	3
10	Flow and Density Estimation in Grenoble Using Real Data. Engineering Proceedings, 2021, 5, .	0.4	0
11	Average density estimation for urban traffic networks: Application to the Grenoble network. Transportation Research Part B: Methodological, 2021, 154, 21-43.	5.9	1
12	Magnetic Field Gradient-Based EKF for Velocity Estimation in Indoor Navigation. Sensors, 2020, 20, 5726.	3.8	12
13	Average density detectability in traffic networks using virtual road divisions. IFAC-PapersOnLine, 2020, 53, 17059-17064.	0.9	0
14	Inertial Velocity Estimation for Indoor Navigation Through Magnetic Gradient-based EKF and LSTM Learning Model. , 2020, , .		5
15	Special issue on "Recent Advances on Data Fusion, Estimation in Navigation and Control". Asian Journal of Control, 2019, 21, 1407-1408.	3.0	2
16	Human Activities and Postures Recognition: From Inertial Measurements to Quaternion-Based Approaches. Sensors, 2019, 19, 4058.	3.8	14
17	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
18	Data fusion-based descriptor approach for attitude estimation under accelerated maneuvers. Asian Journal of Control, 2019, 21, 1433-1442.	3.0	6

#	ARTICLE	IF	CITATIONS
19	Corrections to "Fast Complementary Filter for Attitude Estimation Using Low-Cost MARG Sensors", IEEE Sensors Journal, 2019, 19, 12511-12511.	4.7	1
20	Improving Inertial Velocity Estimation Through Magnetic Field Gradient-based Extended Kalman Filter. , 2019, , .		5
21	Behaviors classification based distance measuring system for pedestrians via a foot-mounted inertial sensor. Asian Journal of Control, 2019, 21, 1483-1495.	3.0	5
22	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
23	Attitude estimation for indoor navigation and augmented reality with smartphones. Pervasive and Mobile Computing, 2018, 46, 96-121.	3.3	30
24	Fast Linear Quaternion Attitude Estimator Using Vector Observations. IEEE Transactions on Automation Science and Engineering, 2018, 15, 307-319.	5.2	84
25	Density and flow reconstruction in urban traffic networks using heterogeneous data sources. , 2018, , .		6
26	Recursive linear continuous quaternion attitude estimator from vector observations. IET Radar, Sonar and Navigation, 2018, 12, 1196-1207.	1.8	11
27	A Super Fast Attitude Determination Algorithm for Consumer-Level Accelerometer and Magnetometer. IEEE Transactions on Consumer Electronics, 2018, 64, 375-381.	3.6	28
28	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
29	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
30	On attitude estimation with smartphones. , 2017, , .		21
31	Critical Issues on Kalman Filter with Colored and Correlated System Noises. Asian Journal of Control, 2017, 19, 1905-1919.	3.0	25
32	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
33	Fast Complementary Filter for Attitude Estimation Using Low-Cost MARG Sensors. IEEE Sensors Journal, 2016, 16, 6997-7007.	4.7	180
34	Adaptive control strategy-based reference model for spacecraft motion trajectory. International Journal of Adaptive Control and Signal Processing, 2015, 29, 639-652.	4.1	2
35	A comparative analysis of attitude estimation for pedestrian navigation with smartphones. , 2015, , .		36
36	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

#	ARTICLE	IF	CITATIONS
37	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
38	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