Aboelmagd M Noureldin

List of Publications by Year
in descending order

197 papers	4,364 citations	147801 31 h-index	155660 55 g-index
199 all docs	199 docs citations	199 times ranked	3146 citing authors

#	ARTICLE	IF	CITATIONS
1	Narrowband Jamming Mitigation Based on Multi-Resolution Analysis for Land Vehicles. IEEE Transactions on Intelligent Vehicles, 2023, 8, 3083-3095.	12.7	3
2	Integration of GNSS Precise Point Positioning and Reduced Inertial Sensor System for Lane-Level Car Navigation. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 2246-2261.	8.0	12
3	Integral Terminal Synergetic-Based Direct Power Control for Distributed Generation Systems. IEEE Transactions on Smart Grid, 2022, 13, 1287-1297.	9.0	8
4	A Novel Multi-Level Integrated Navigation System for Challenging GNSS Environments. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 4838-4852.	8.0	24
5	3-D Reconstruction and Measurement System Based on Multimobile Robot Machine Vision. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-9.	4.7	14
6	Application of System Identification Techniques for Integrated Navigation. , 2021, , .		3
7	Evaluation of 5G Cell Densification for Autonomous Vehicles Positioning in Urban Settings. , 2021, , .		5
8	GPS Swept Anti-Jamming Technique Based on Fast Orthogonal Search (FOS). Sensors, 2021, 21, 3706.	3.8	7
9	Implementation of Parallel Cascade Identification at Various Phases for Integrated Navigation System. Future Internet, 2021, 13, 191.	3.8	8
10	Vehicular Positioning Using mmWave TDOA with a Dynamically Tuned Covariance Matrix. , 2021, , .		2
11	Integrated Positioning for Connected Vehicles. IEEE Transactions on Intelligent Transportation Systems, 2020, 21, 397-409.	8.0	18
12	Improving the RISS/GNSS Land-Vehicles Integrated Navigation System Using Magnetic Azimuth Updates. IEEE Transactions on Intelligent Transportation Systems, 2020, 21, 1250-1263.	8.0	30
13	Drilling trajectory survey technology based on 3D RISS with a single fiber optic gyroscope. Optik, 2020, 203, 163971.	2.9	4
14	Robust Positioning for Road Information Services in Challenging Environments. IEEE Sensors Journal, 2020, 20, 3182-3195.	4.7	11
15	Robust GPS Anti-jamming Technique Based on Fast Orthogonal Search. , 2020, , 233-244.		0
16	LiDAR/RISS/GNSS Dynamic Integration for Land Vehicle Robust Positioning in Challenging GNSS Environments. Remote Sensing, 2020, 12, 2323.	4.0	19
17	A Comprehensive Review of Micro-Inertial Measurement Unit Based Intelligent PIG Multi-Sensor Fusion Technologies for Small-Diameter Pipeline Surveying. Micromachines, 2020, 11, 840.	2.9	12
18	A Clustering-Driven Approach to Predict the Traffic Load of Mobile Networks for the Analysis of Base Stations Deployment. Journal of Sensor and Actuator Networks, 2020, 9, 53.	3.9	8

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19	Investigating the Benefits of Vector-Based GNSS Receivers for Autonomous Vehicles under Challenging Navigation Environments. Signals, 2020, 1, 121-137.	1.9	3
20	Adaptive Fast Orthogonal Search (FOS) algorithm for forecasting streamflow. Journal of Hydrology, 2020, 586, 124896.	5.4	28
21	DOA Elevation and Azimuth Angles Estimation of GPS Jamming Signals Using Fast Orthogonal Search. IEEE Transactions on Aerospace and Electronic Systems, 2020, 56, 3812-3821.	4.7	16
22	An Efficient Ultra-Tight GPS/RISS Integrated System for Challenging Navigation Environments. Applied Sciences (Switzerland), 2020, 10, 3613.	2.5	3
23	Performance Analysis of MEMS-based RISS/PPP Integrated Positioning for Land Vehicles. , 2020, , .		2
24	Integration of Electronic Scanning Radars with Inertial Technology for Seamless Positioning in challenging GNSS Environments. , 2020, , .		2
25	Integrated Motor Optimization and Route Planning for Electric Vehicle using Embedded GPU System. , 2019, , .		4
26	Micro-Inertial-Aided High-Precision Positioning Method for Small-Diameter PIG Navigation. , 2019, , .		3
27	Research on the Improved Data Processing Method for Foot-Mounted Inertial Pedestrian Positioning System. , 2019, , .		1
28	Adaptive cruise control radar–based positioning in GNSS challenging environment. IET Radar, Sonar and Navigation, 2019, 13, 1666-1677.	1.8	11
29	A Review on Small-Diameter Pipeline Inspection Gauge Localization Techniques: Problems, Methods and Challenges. , 2019, , .		9
30	Low-cost IMU Data Denoising using Savitzky-Golay Filters. , 2019, , .		11
31	Toward Practical Anticipatory Video Delivery for the Internet-of-Vehicles. , 2019, , .		0
32	Low-Cost Real-Time PPP/INS Integration for Automated Land Vehicles. Sensors, 2019, 19, 4896.	3.8	29
33	A Framework for Adaptive Resolution Geo-Referencing in Intelligent Vehicular Services. , 2019, , .		2
34	Direction of Arrival Estimation of GPS Narrowband Jammers Using High-Resolution Techniques. Sensors, 2019, 19, 5532.	3.8	6
35	Research on the improved method for dual foot-mounted Inertial/Magnetometer pedestrian positioning based on adaptive inequality constraints Kalman Filter algorithm. Measurement: Journal of the International Measurement Confederation, 2019, 135, 189-198.	5.0	35
36	Real-time realization of digital surface models and slope map using lidar for UAV navigation in challenging environment. , 2019, , .		0

#	Article	IF	Citations
37	Performance evaluation of neural network based integration of vision and motion sensors for vehicular navigation. , 2019, , .		3
38	Towards a Practical Crowdsensing System for Road Surface Conditions Monitoring. IEEE Internet of Things Journal, 2018, 5, 4672-4685.	8.7	86
39	Novel EKF-Based Vision/Inertial System Integration for Improved Navigation. IEEE Transactions on Instrumentation and Measurement, 2018, 67, 116-125.	4.7	41
40	Robust Long-Term Predictive Adaptive Video Streaming Under Wireless Network Uncertainties. IEEE Transactions on Wireless Communications, 2018, 17, 1374-1388.	9.2	9
41	Examining the benefits of multi-GNSS constellation for the positioning of high dynamics air platforms under jamming conditions. , 2018, , .		3
42	A Comprehensive Study of the Effects of Linear Chirp Jamming on GNSS Receivers under High-Dynamic Scenarios. , 2018, , .		1
43	Junction Detection Based on CCWT and MEMS Accelerometer Measurement. , 2018, , .		1
44	iDriveSense: Dynamic Route Planning Involving Roads Quality Information. , 2018, , .		9
45	Research on an Improved Method for Foot-Mounted Inertial/Magnetometer Pedestrian-Positioning Based on the Adaptive Gradient Descent Algorithm. Sensors, 2018, 18, 4105.	3.8	15
46	Utilization of Wavelet Packet Sensor De-noising for Accurate Positioning in Intelligent Road Services. , 2018, , .		7
47	A Reduced Inertial Sensor System Based on MEMS for Wellbore Continuous Surveying While Horizontal Drilling. IEEE Sensors Journal, 2018, 18, 5662-5673.	4.7	13
48	Utilization of Stochastic Modeling for Green Predictive Video Delivery Under Network Uncertainties. IEEE Transactions on Green Communications and Networking, 2018, 2, 556-569.	5.5	9
49	Improving Multisensor Positioning of Land Vehicles with Integrated Visual Odometry for Next-Generation Self-Driving Cars. Journal of Advanced Transportation, 2018, 2018, 1-12.	1.7	6
50	Utilizing the ACC-FMCW radar for land vehicles navigation. , 2018, , .		13
51	Bi-orthonormal based de-noising for improving wellbore continuous MWD surveying utilizing MEMS inertial sensors. , 2018, , .		3
52	DOA Estimation Using Second-Order Differential of Invariant Noise MUSIC (SODIN-MUSIC). Circuits, Systems, and Signal Processing, 2017, 36, 703-720.	2.0	3
53	Enhanced GPS narrowband jamming detection using high-resolution spectral estimation. GPS Solutions, 2017, 21, 475-485.	4.3	14
54	Using multiple portable/wearable devices for enhanced misalignment estimation in portable navigation. GPS Solutions, 2017, 21, 393-404.	4.3	4

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55	A Survey on Approaches of Motion Mode Recognition Using Sensors. IEEE Transactions on Intelligent Transportation Systems, 2017, 18, 1662-1686.	8.0	54
56	Modeling received signal strength for indoors utilizing hybrid neuro-fuzzy network. , 2017, , .		4
57	Robust Content Delivery and Uncertainty Tracking in Predictive Wireless Networks. IEEE Transactions on Wireless Communications, 2017, 16, 2327-2339.	9.2	17
58	Integrated cooperative localization for Vehicular networks with partial GPS access in Urban Canyons. Vehicular Communications, 2017, 9, 242-253.	4.0	31
59	Investigation of the effects of White Gaussian Noise jamming on commercial GNSS receivers. , 2017, , .		1
60	Optimal and Robust QoS-Aware Predictive Adaptive Video Streaming for Future Wireless Networks. , 2017, , .		4
61	Enhanced MEMS SINS Aided Pipeline Surveying System by Pipeline Junction Detection in Small Diameter Pipeline. IFAC-PapersOnLine, 2017, 50, 3560-3565.	0.9	17
62	Monitoring road surface anomalies towards dynamic road mapping for future smart cities. , 2017, , .		19
63	Adaptive square-root CKF based SLAM algorithm for indoor UGVs. , 2017, , .		4
64	Road Test Experiments and Statistical Analysis for Real-Time Monitoring of Road Surface Conditions. , 2017, , .		9
65	Energy-efficient predictive video streaming under demand uncertainties. , 2017, , .		6
66	Fair Robust Predictive Resource Allocation for Video Streaming under Rate Uncertainties. , 2016, , .		9
67	Analysis of different GNSS array processing methods utilizing new experimental approach using a Spirent simulator and single frontend receiver. , 2016, , .		1
68	A New High-Resolution GPS Multipath Mitigation Technique Using Fast Orthogonal Search. Journal of Navigation, 2016, 69, 794-814.	1.7	19
69	RSS-based indoor positioning utilizing Firefly algorithm in Wireless Sensor networks. , 2016, , .		4
70	Joint Chance-Constrained Predictive Resource Allocation for Energy-Efficient Video Streaming. IEEE Journal on Selected Areas in Communications, 2016, 34, 1389-1404.	14.0	47
71	Routing mobile data couriers in smart-cities. , 2016, , .		2
72	Distributed vehicle selection for non-range based cooperative positioning in urban environments. , 2016, , .		4

#	Article	IF	Citations
73	Pipeline junction detection from accelerometer measurement using fast orthogonal search. , 2016, , .		5
74	Analysis of rolling motion effect on SINS error modeling in PIG. , 2016, , .		5
75	Motion Mode Recognition for Indoor Pedestrian Navigation Using Portable Devices. IEEE Transactions on Instrumentation and Measurement, 2016, 65, 208-221.	4.7	60
76	Robust fine acquisition algorithm for GPS receiver with limited resources. GPS Solutions, 2016, 20, 77-88.	4.3	14
77	Integrated Cooperative Localization for Connected Vehicles in Urban Canyons. , 2015, , .		19
78	Online Motion Mode Recognition for Portable Navigation Using Low-Cost Sensors. Navigation, Journal of the Institute of Navigation, 2015, 62, 273-290.	2.8	21
79	Adaptive Covariance Estimation Method for LiDAR-Aided Multi-Sensor Integrated Navigation Systems. Micromachines, 2015, 6, 196-215.	2.9	11
80	INS/GPS/LiDAR Integrated Navigation System for Urban and Indoor Environments Using Hybrid Scan Matching Algorithm. Sensors, 2015, 15, 23286-23302.	3.8	129
81	An Enhanced Error Model for EKF-Based Tightly-Coupled Integration of GPS and Land Vehicleâ€™s Motion Sensors. Sensors, 2015, 15, 24269-24296.	3.8	14
82	A Novel Machine Vision Approach Applied for Autonomous Robotics Navigation. , 2015, , .		3
83	Chance-constrained QoS satisfaction for predictive video streaming. , 2015, , .		9
84	A Dyna-Q (Lambda) Approach to Flocking with Fixed-Wing UAVs in a Stochastic Environment. , 2015, , .		11
85	VANETs Positioning in Urban Environments: A Novel Cooperative Approach. , 2015, , .		30
86	Incorporating feedback predictions for optimized UAV attack mission planning. , 2015, , .		5
87	Integrated Indoor Navigation System for Ground Vehicles With Automatic 3-D Alignment and Position Initialization. IEEE Transactions on Vehicular Technology, 2015, 64, 1279-1292.	6.3	78
88	Enhanced underwater target tracking using innovative spectral denoising method. , 2015, , .		1
89	A LiDAR-Aided Indoor Navigation System for UGVs. Journal of Navigation, 2015, 68, 253-273.	1.7	29
90	Cooperative Unmanned Aerial Vehicles formation via decentralized LBMPC. , 2015, , .		4

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91	Three-Dimensional Magnetometer Calibration With Small Space Coverage for Pedestrians. IEEE Sensors Journal, 2015, 15, 598-609.	4.7	30
92	Using multiple sensor triads for enhanced misalignment estimation for portable and wearable devices. , 2014, , .		0
93	A Prediction Scheme for VBR Video Traffic Using a Fast Orthogonal Search Algorithm. , 2014, , .		1
94	Using portable device sensors to recognize height changing modes of motion. , 2014, , .		9
95	An Enhanced 3D Multi-Sensor Integrated Navigation System for Land-Vehicles. Journal of Navigation, 2014, 67, 651-671.	1.7	14
96	Robust resource allocation for predictive video streaming under channel uncertainty. , 2014, , .		20
97	A novel systems integration approach for multi-sensor integrated navigation systems. , 2014, , .		7
98	Recursive implementation of MUSIC algorithm to minimize power system disturbances. International Journal of Electrical Power and Energy Systems, 2014, 56, 9-18.	5.5	5
99	A dual-rate multi-filter algorithm for LiDAR-aided indoor navigation systems. , 2014, , .		5
100	Robust motion mode recognition for portable navigation independent on device usage. , 2014, , .		8
101	Performance Analysis of Code-Phase-Based Relative GPS Positioning and Its Integration With Land Vehicle's Motion Sensors. IEEE Sensors Journal, 2014, 14, 3084-3100.	4.7	11
102	Unconstrained underwater multi-target tracking in passive sonar systems using two-stage PF-based technique. International Journal of Systems Science, 2014, 45, 439-455.	5.5	15
103	Magnetometer Calibration for Portable Navigation Devices in Vehicles Using a Fast and Autonomous Technique. IEEE Transactions on Intelligent Transportation Systems, 2014, 15, 2347-2352.	8.0	36
104	Encirclement of moving target using linear model predictive control via feedback linearization. , 2014, , .		0
105	Integrated Cooperative Localization for Connected Vehicles in Urban Canyons. , 2014, , .		1
106	GPS Cycle Slip Detection and Correction at Measurement Level. British Journal of Applied Science & Technology, 2014, 4, 4239-4251.	0.2	14
107	Pseudoranges Error Correction in Partial GPS Outages for a Nonlinear Tightly Coupled Integrated System. IEEE Transactions on Intelligent Transportation Systems, 2013, 14, 1510-1525.	8.0	26
108	Nonlinear modeling of the stochastic errors of MEMS inertial sensors utilized in smart phones. , 2013, , .		0

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109	Fundamentals of Inertial Navigation, Satellite-based Positioning and their Integration. , 2013, , .		250
110	Dynamic Online-Calibrated Radio Maps for Indoor Positioning in Wireless Local Area Networks. IEEE Transactions on Mobile Computing, 2013, 12, 1774-1787.	5.8	118
111	Three-Dimensional Reduced Inertial Sensor System/GPS Integration for Land-Based Vehicles. , 2013, , 273-296.		1
112	Inertial Navigation System Modeling. , 2013, , 167-200.		0
113	Hybrid GM(1,1)-NARnet one hour ahead wind power prediction. , 2013, , .		3
114	Robust Modeling of Low-Cost MEMS Sensor Errors in Mobile Devices Using Fast Orthogonal Search. Journal of Sensors, 2013, 2013, 1-8.	1.1	12
115	ENHANCING KALMAN FILTERINGâ€"BASED TIGHTLY COUPLED NAVIGATION SOLUTION THROUGH REMEDIAL ESTIMATES FOR PSEUDORANGE MEASUREMENTS USING PARALLEL CASCADE IDENTIFICATION. Instrumentation Science and Technology, 2012, 40, 530-566.	1.8	7
116	Accuracy Enhancement of Inertial Sensors Utilizing High Resolution Spectral Analysis. Sensors, 2012, 12, 11638-11660.	3.8	17
117	Augmented Kalman Filter and Map Matching for 3D RISS/GPS Integration for Land Vehicles. International Journal of Navigation and Observation, 2012, 2012, 1-16.	0.8	30
118	Particle-Filter-Based WiFi-Aided Reduced Inertial Sensors Navigation System for Indoor and GPS-Denied Environments. International Journal of Navigation and Observation, 2012, 2012, 1-12.	0.8	10
119	Vehicle navigator using a mixture particle filter for inertial sensors/odometer/map data/GPS integration. IEEE Transactions on Consumer Electronics, 2012, 58, 544-552.	3.6	37
120	A WiFi-aided reduced inertial sensors-based navigation system with fast embedded implementation of particle filtering. , 2012, , .		9
121	A consistent zero-configuration GPS-Like indoor positioning system based on signal strength in IEEE 802.11 networks. , 2012, , .		11
122	AUGMENTED FAST ORTHOGONAL SEARCH/KALMAN FILTERING (FOS/KF) POSITIONING AND ORIENTATION SOLUTION USING MEMS-BASED INERTIAL NAVIGATION SYSTEM (INS) IN DRILLING APPLICATIONS. Instrumentation Science and Technology, 2012, 40, 275-289.	1.8	4
123	Clustered Mixture Particle Filter for Underwater Multitarget Tracking in Multistatic Active Sonobuoy Systems. IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews, 2012, 42, 547-560.	2.9	24
124	FPGA-Based Real-Time Embedded System for RISS/GPS Integrated Navigation. Sensors, 2012, 12, 115-147.	3.8	18
125	DOA estimation based on fourth order cumulant beamforming for nonuniform linear array of DIFAR sonobuoys. Computers and Electrical Engineering, 2012, 38, 986-993.	4.8	3
126	Dynamic versus static neural network model for rainfall forecasting at Klang River Basin, Malaysia. Hydrology and Earth System Sciences, 2012, 16, 1151-1169.	4.9	63

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127	Fast orthogonal search (FOS) versus fast Fourier transform (FFT) as spectral model estimations techniques applied for structural health monitoring (SHM). Structural and Multidisciplinary Optimization, 2012, 45, 503-513.	3.5	16
128	Dynamic Propagation Modeling for Mobile Users' Position and Heading Estimation in Wireless Local Area Networks. IEEE Wireless Communications Letters, 2012, 1, 101-104.	5.0	13
129	Testing a New Integrated Solution for MEMS Inertial Measurement Unit Used for Measurement-While-Drilling in Rotary Steerable System. Sensor Letters, 2012, 10, 719-725.	0.4	8
130	Mitigation of Arc Furnace Voltage Flicker Using an Innovative Scheme of Adaptive Notch Filters. IEEE Transactions on Power Delivery, 2011, 26, 1326-1336.	4.3	12
131	Generalized versus non-generalized neural network model for multi-lead inflow forecasting at Aswan High Dam. Hydrology and Earth System Sciences, 2011, 15, 841-858.	4.9	36
132	Angle of arrival estimation based on warped delay-and-sum (WDAS) beamforming technique. , 2011, , .		6
133	Low cost two dimension navigation using an augmented Kalman filter/Fast Orthogonal Search module for the integration of reduced inertial sensor system and Global Positioning System. Transportation Research Part C: Emerging Technologies, 2011, 19, 1111-1132.	7.6	34
134	Direction of arrival estimation using virtual array search. IET Radar, Sonar and Navigation, 2011, 5, 389.	1.8	3
135	Enhanced MEMS-IMU/odometer/GPS integration using mixture particle filter. GPS Solutions, 2011, 15, 239-252.	4.3	75
136	GPS/INS integration utilizing dynamic neural networks for vehicular navigation. Information Fusion, 2011, 12, 48-57.	19.1	183
137	Enhancement of the current quality using efficient extraction and mitigation processes. International Journal of Electrical Power and Energy Systems, 2011, 33, 1118-1124.	5.5	3
138	2D Mobile multi-sensor navigation system realization using FPGA-based embedded processors. , 2011, , .		2
139	Bayesian Filtering Based WiFi/INS Integrated Navigation Solution for GPS-Denied Environments. Navigation, Journal of the Institute of Navigation, 2011, 58, 111-125.	2.8	10
140	Fast features reduction of radio maps for real-time fingerprint-based wireless positioning systems. Electronics Letters, 2011, 47, 1151.	1.0	5
141	Tightly Coupled Low Cost 3D RISS/GPS Integration Using a Mixture Particle Filter for Vehicular Navigation. Sensors, 2011, 11, 4244-4276.	3.8	12
142	Gaussian process regression approach for bridging GPS outages in integrated navigation systems. Electronics Letters, 2011, 47, 52.	1.0	16
143	MEMS Gyroscope-While-Drilling Environment Qualification Testing. , 2010, , .		8
144	Continuous Wellbore Surveying While Drilling Utilizing MEMS Gyroscopes Based on Kalman Filtering. , 2010, , .		4

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145	Neural network modeling of time-dependent creep deformations in masonry structures. Neural Computing and Applications, 2010, 19, 583-594.	5.6	28
146	Performance evaluation of a non-linear error model for underwater range computation utilizing GPS sonobuoys. Neural Computing and Applications, 2010, 19, 1057-1067.	5.6	1
147	Low-Cost Three-Dimensional Navigation Solution for RISS/GPS Integration Using Mixture Particle Filter. IEEE Transactions on Vehicular Technology, 2010, 59, 599-615.	6.3	124
148	Fast orthogonal search approach for distance protection of transmission lines. Electric Power Systems Research, 2010, 80, 215-221.	3.6	7
149	Nonlinear Modeling of Azimuth Error for 2D Car Navigation Using Parallel Cascade Identification Augmented with Kalman Filtering. International Journal of Navigation and Observation, 2010, 2010, 1-13.	0.8	4
150	Implementation methodology of embedded land vehicle positioning using an integrated GPS and multi sensor system. Integrated Computer-Aided Engineering, 2010, 17, 69-83.	4.6	15
151	Real-time implementation of mixture particle filter for 3D RISS/GPS integrated navigation solution. Electronics Letters, 2010, 46, 1083.	1.0	25
152	Nonlinear filtering for tightly coupled RISS/GPS integration. , 2010, , .		8
153	FOS-based modelling of reduced inertial sensor system errors for 2D vehicular navigation. Electronics Letters, 2010, 46, 298.	1.0	11
154	Error modeling and characterization of environmental effects for low cost inertial MEMS units. , 2010, , .		24
155	Modeling the Stochastic Drift of a MEMS-Based Gyroscope in Gyro/Odometer/GPS Integrated Navigation. IEEE Transactions on Intelligent Transportation Systems, 2010, 11, 856-872.	8.0	134
156	Augmenting Kalman Filtering with Parallel Cascade Identification for Improved 2D Land Vehicle Navigation. , 2010, , .		4
157	Performance Enhancement of Underwater Target Tracking by Fusing Data of Array of Global Positioning System Sonobuoys. Journal of Computer Science, 2009, 5, 199-206.	0.6	0
158	Experimental Results on an Integrated GPS and Multisensor System for Land Vehicle Positioning. International Journal of Navigation and Observation, 2009, 2009, 1-18.	0.8	25
159	Performance Enhancement of MEMS-Based INS/GPS Integration for Low-Cost Navigation Applications. IEEE Transactions on Vehicular Technology, 2009, 58, 1077-1096.	6.3	297
160	Enhancing Inflow Forecasting Model at Aswan High Dam Utilizing Radial Basis Neural Network and Upstream Monitoring Stations Measurements. Water Resources Management, 2009, 23, 2289-2315.	3.9	61
161	Mixture Particle Filter for Low Cost INS/Odometer/GPS Integration in Land Vehicles. , 2009, , .		7
162	A design methodology for the implementation of embedded vehicle navigation systems. , 2009, , .		2

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163	Enhanced mobile robot outdoor localization using INS/GPS integration. , 2009, , .		21
164	Quantitative comparison between Kalman filter and Particle filter for low cost INS/GPS integration. , 2009, , .		2
165	Power-Quality Improvement Using Wiener Filters Based On a Modular Compensating Strategy. IEEE Transactions on Power Delivery, 2008, 23, 841-849.	4.3	5
166	Constructive neural-networks-based MEMS/GPS integration scheme. IEEE Transactions on Aerospace and Electronic Systems, 2008, 44, 582-594.	4.7	42
167	An integrated reduced inertial sensor system &#x2014; RISS / GPS for land vehicle. , 2008, , .		47
168	Neural Network Model for Nile River Inflow Forecasting Based on Correlation Analysis of Historical Inflow Data. Journal of Applied Sciences, 2008, 8, 4487-4499.	0.3	30
169	A Novel Earthquake Warning System Based on Virtual MIMO-Wireless Sensor Networks. , 2007, , .		14
170	An Augmented Wavelet - Neuro-Fuzzy Module for Enhancing MEMS based Navigation Systems. , 2007, , .		2
171	Sensor Integration for Satellite-Based Vehicular Navigation Using Neural Networks. IEEE Transactions on Neural Networks, 2007, 18, 589-594.	4.2	72
172	Implementation of the Wiener Filter for Extracting Power Quality Disturbances. , 2007, , .		1
173	Adaptive Fuzzy Prediction of Low-Cost Inertial-Based Positioning Errors. IEEE Transactions on Fuzzy Systems, 2007, 15, 519-529.	9.8	75
174	Adaptive neuro-fuzzy module for inertial navigation system/global positioning system integration utilising position and velocity updates with real-time cross-validation. IET Radar, Sonar and Navigation, 2007, 1, 388.	1.8	22
175	A neuro-fuzzy model for inflow forecasting of the Nile river at Aswan high dam. Water Resources Management, 2007, 21, 533-556.	3.9	166
176	Merits and limitations of using fuzzy inference system for temporal integration of INS/GPS in vehicular navigation. Soft Computing, 2007, 11, 889-900.	3.6	17
177	Optimizing neuro-fuzzy modules for data fusion of vehicular navigation systems using temporal cross-validation. Engineering Applications of Artificial Intelligence, 2007, 20, 49-61.	8.1	63
178	Enhancing the Update Procedure of Neuro - Fuzzy Modules Used for Multi-Sensor Navigation Systems. , 2006, , .		0
179	Bridging GPS outages using neural network estimates of INS position and velocity errors. Measurement Science and Technology, 2006, 17, 2783-2798.	2.6	87
180	Modeling Inertial Sensor Errors Using Autoregressive (AR) Models. Navigation, Journal of the Institute of Navigation, 2004, 51, 259-268.	2.8	59

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181	A new weight updating method for INS/GPS integration architectures based on neural networks. Measurement Science and Technology, 2004, 15, 2053-2061.	2.6	38
182	Measurement-while-drilling surveying of highly inclined and horizontal well sections utilizing single-axis gyro sensing system. Measurement Mitigation Science and Technology, 2004, 15, 2426-2434.	2.6	42
183	A neuro-wavelet method for multi-sensor system integration for vehicular navigation. Measurement Science and Technology, 2004, 15, 404-412.	2.6	76
184	Multisensor integration using neuron computing for land-vehicle navigation. GPS Solutions, 2003, 6, 209-218.	4.3	53
185	New technique for reducing the angle random walk at the output of fiber optic gyroscopes during alignment processes of inertial navigation systems. Optical Engineering, 2001, 40, 2097.	1.0	20
186	GNSS Error Sources. , 0, , .		36
187	Comparative Analysis of Magnetic-Based RISS using Different MEMS-Based Sensors. , 0, , .		9
188	Leveraging FMCW-Radar for Autonomous Positioning Systems: Methodology and Application in Downtown Toronto. , 0, , .		11
189	Enhanced Land Vehicles Navigation by Fusing Automotive Radar and Speedometer Data. , 0, , .		6
190	An Analysis to Enhance the Reliability of an Integrated Navigation System at Multiple Stages by using FOS. , 0, , .		1
191	Integrating Vision Based Navigation with INS and GPS for Land Vehicle Navigation in Challenging GNSS Environments. , 0, , .		4
192	Integration of Code-Based Precise Point Positioning and Reduced Inertial Sensor System. , 0, , .		0
193	A Novel Wavelet Packet-based Jamming Mitigation Technique for Vector Tracking-based GPS Software Receiver. , 0, , .		1
194	Leveraging Vision-Based Structure-from-Motion for Robust Integrated Land Vehicle Positioning Systems in Challenging GNSS Environments. , 0, , .		4
195	Performance Verification of Ultra-tight GPS/INS System Using a Comprehensive GPS/INS Data Simulation Tool. , 0, , .		0
196	Evaluation of Commercial GNSS Receivers Performance Under Chirp Jamming. , 0, , .		0
197	Visual Structure from Motion for UAV Indoor Localization. , 0, , .		2