

# CITATION REPORT

List of articles citing

## Particle filters for positioning, navigation, and tracking

DOI: 10.1109/78.978396

IEEE Transactions on Signal Processing, 2002, 50, 425-437.

**Source:** <https://exaly.com/paper-pdf/34792000/citation-report.pdf>

**Version:** 2024-04-28

This report has been generated based on the citations recorded by exaly.com for the above article. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

#	Paper	IF	Citations
1158	Integrating GPS and INS: comparing the Kalman estimator and particle estimator.		4
1157	Tracking in decentralised air-ground sensing networks.		15
1156	A sequential Monte Carlo filter for joint linear/nonlinear state estimation with application to DS-CDMA. <i>IEEE Transactions on Signal Processing</i> , <b>2003</b> , 51, 417-426	4.8	16
1155	Positioning using time-difference of arrival measurements.		89
1154	Application of particle filtering in navigation system for blind. <b>2003</b> ,		6
1153	Particle filtering and Cramer-Rao lower bound for underwater navigation.		18
1152	Spectrogram-based formant tracking via particle filters.		1
1151	Particle filter for underwater terrain navigation.		28
1150	Adapting the Sample Size in Particle Filters Through KLD-Sampling. <b>2003</b> , 22, 985-1003		436
1149	Target tracking and data fusion using multiple adaptive Foveal sensors. <b>2003</b> ,		4
1148	Robust terrain navigation with the correlation method for high position accuracy. <b>2003</b> ,		5
1147	Particle filters for system identification with application to chaos prediction. <b>2003</b> , 36, 1245-1250		3
1146	Particle filters for system identification of state-space models linear in either parameters or states 1. <b>2003</b> , 36, 1251-1256		3
1145	Non-linear filtering for land vehicle navigation with GPS outage.		9
1144	Passive stationary target positioning using adaptive particle filter with TDOA and FDOA measurements.		1
1143	Particle filter based outdoor robot localization using natural features extracted from laser scanners. <b>2004</b> ,		17
1142	Markov-chain Monte-Carlo approach for association probability evaluation. <b>2004</b> , 151, 185-193		10

1141	Estimation of parameters in a linear state space model using a Rao-Blackwellised particle filter. <b>2004</b> , 151, 727-738	58
1140	Signal processing by particle filtering for binary sensor networks.	2
1139	Hardware-friendly pedestrian detection and impact prediction.	20
1138	Relative Navigation Based on UKF for Multiple Spacecraft Formation Flying. <b>2004</b> ,	3
1137	Adaptive mobile positioning in WCDMA networks.	
1136	A track-before-detect algorithm based on particle filter with model estimation.	
1135	Terrain navigation for underwater vehicles using the correlator method. <b>2004</b> , 29, 906-915	77
1134	Real-time particle filters. <b>2004</b> , 92, 469-484	117
1133	Improves particle filter in sensor fusion for tracking random moving object.	2
1132	PERFORMANCE ANALYSIS OF KALMAN-BASED FILTERS AND PARTICLE FILTERS FOR NON-LINEAR/NON-GAUSSIAN BAYESIAN TRACKING. <b>2005</b> , 38, 1131-1136	1
1131	Tracking with particle filtering in tertiary wireless sensor networks.	4
1130	POSITION ESTIMATION AND MODELING OF A FLEXIBLE INDUSTRIAL ROBOT. <b>2005</b> , 38, 253-258	2
1129	Recursive Bayesian estimation: bearings-only applications. <b>2005</b> , 152, 305	46
1128	Evolutionary origins and principles of distributed neural computation for state estimation and movement control in vertebrates. <b>2005</b> , 10, 56-65	8
1127	A Road-Matching Method for Precise Vehicle Localization Using Belief Theory and Kalman Filtering. <b>2005</b> , 19, 173-191	122
1126	Map-Based Multiple Model Tracking of a Moving Object. <b>2005</b> , 18-33	18
1125	Simple Map-Matching Algorithm Applied to Intelligent Winter Maintenance Vehicle Data. <b>2005</b> , 1935, 68-76	12
1124	Learning particle filter for multiple target tracking. <b>2005</b> ,	

1123	Real-Time Tracking of Moving Objects Using Particle Filters. <b>2005,</b>	11
1122	Evolution of the cerebellum as a neuronal machine for Bayesian state estimation. <b>2005, 2, S219-34</b>	59
1121	Mobility tracking in cellular networks with sequential Monte Carlo filters. <b>2005,</b>	4
1120	Real-time image-based topological localization in large outdoor environments. <b>2005,</b>	25
1119	Accuracy characterization for metropolitan-scale Wi-Fi localization. <b>2005,</b>	274
1118	Vehicle localization in underground mines using a particle filter.	4
1117	. <b>2005,</b>	10
1116	Real-time seismic signal enhancement utilizing a hybrid Rao-Blackwellized particle filter and hidden Markov model filter. <b>2005, 2, 418-422</b>	15
1115	Positioning a time-varying number of targets by a wireless sensor network.	5
1114	A new approach to map-matching and parameter correcting for vehicle navigation system in the area of shadow of GPS signal.	5
1113	A robust approach to the detection and tracking of small targets with low contrast.	1
1112	Positioning by Cost Reference Particle Filters: Study of Various Implementations. <b>2005,</b>	6
1111	.	25
1110	Marginalized particle filters for mixed linear/nonlinear state-space models. <i>IEEE Transactions on Signal Processing</i> , <b>2005, 53, 2279-2289</b>	4.8 349
1109	Mobile positioning using wireless networks: possibilities and fundamental limitations based on available wireless network measurements. <b>2005, 22, 41-53</b>	639
1108	Map-aided indoor mobile positioning system using particle filter.	37
1107	Distributed Cooperative Search Using Information - Theoretic Costs for Particle Filters, with Quadrotor Applications. <b>2006,</b>	44
1106	The marginalized particle filter in practice.	20

1105	Using Noisy Georeferenced Information Sources for Navigation and Tracking. <b>2006,</b>		1
1104	Nonlinear Semi-Analytic Method for Spacecraft Navigation. <b>2006,</b>		3
1103	Particle Filters for Target Tracking Using Vision Data for Micro-Air Vehicles. <b>2006,</b>		
1102	Kalman Filtering for Relative Inertial Navigation of Uninhabited Air Vehicles. <b>2006,</b>		10
1101	. <b>2006,</b>		1
1100	. <b>2006,</b>		
1099	Channel Aware Particle Filtering for Tracking in Sensor Networks. <b>2006,</b>		7
1098	Power matching approach for GPS coverage extension. <b>2006, 7, 156-166</b>		20
1097	Particle Filters and Position Tracking in Wi-Fi Networks.		
1096	Hybrid filtering for map-aided vehicle navigation. <b>2006,</b>		2
1095	Distributed compression-estimation using wireless sensor networks. <b>2006, 23, 27-41</b>		208
1094	SOI-KF: Distributed Kalman Filtering With Low-Cost Communications Using the Sign of Innovations. <i>IEEE Transactions on Signal Processing</i> , <b>2006, 54, 4782-4795</b>	4.8	219
1093	Detection Algorithm for Multi-Vehicular Target Tracking in Wireless Acoustic Sensor Networks. <b>2006,</b>		
1092	Rao-Blackwellized Particle Filtering for Sequential Speech Enhancement. <b>2006,</b>		
1091	Advanced Integration of WiFi and Inertial Navigation Systems for Indoor Mobile Positioning. <b>2006, 2006, 1</b>		163
1090	Particle Filtering Algorithms for Tracking a Maneuvering Target Using a Network of Wireless Dynamic Sensors. <b>2006, 2006, 1</b>		3
1089	.		4
1088	A Monte Carlo Method for Joint Node Location and Maneuvering Target Tracking in a Sensor Network.		2

1087	Feature extraction for outdoor mobile robot navigation based on a modified Gauss-Newton optimization approach. <b>2006</b> , 54, 277-287	20
1086	Particle filters for maneuvering target tracking problem. <b>2006</b> , 86, 195-203	39
1085	Maneuvering Target Tracking with Simplified Cost Reference Particle Filters.	
1084	Principle phase decomposition: a new concept in blind seismic deconvolution. <b>2006</b> , 44, 2271-2281	20
1083	Tracking of Time-Varying Number of Moving Targets in Wireless Sensor Fields by Particle Filtering.	1
1082	Position and velocity tracking in mobile cellular networks using the particle filter. <b>2006</b> ,	5
1081	Mutual Information Methods with Particle Filters for Mobile Sensor Network Control. <b>2006</b> ,	23
1080	Positioning in Underground Mines. <b>2006</b> ,	6
1079	.	2
1078	Position and Velocity Tracking in Cellular Networks Using Particle and Kalman Filtering with Comparison. <b>2006</b> ,	2
1077	Tracking with Biased Measurements of Signal Strength Sensors. <b>2007</b> ,	1
1076	A Particle Filtering Algorithm for Audiovisual Speaker Localisation. <b>2007</b> ,	1
1075	A New Estimation Method for Multisensor Fusion by using Interval Analysis and Particle Filtering. <b>2007</b> ,	8
1074	Using Particle Filter to Track and Model Microtubule Dynamics. <b>2007</b> ,	8
1073	Adapting Particle Filter on Interval Data for Dynamic State Estimation. <b>2007</b> ,	5
1072	A Minimum Entropy Estimation Based Mobile Positioning Algorithm. <b>2007</b> ,	
1071	Multiple Target Tracking for Mobile Robots Using the JPDAF Algorithm. <b>2007</b> ,	6
1070	Target Tracking Performance Evaluation - A General Software Environment for Filtering. <b>2007</b> ,	2

1069	Estimation of mobile station position and velocity in multipath wireless networks using the unscented particle filter. <b>2007,</b>		1
1068	Simplified Marginalized Particle Filtering for Tracking Multimodal Posteriors. <b>2007,</b>		3
1067	Sequential Monte Carlo scheme for Bayesian estimation in the presence of data outliers. <b>2007,</b> 75, 056705		
1066	Auditory and Visual Integration based Localization and Tracking of Multiple Moving Sounds in Daily-life Environments. <b>2007,</b>		0
1065	Using Combinative Proposal Distribution in Particle Filtering Algorithm. <b>2007,</b>		
1064	Experimental Deployment of Particle Filters in WiFi Networks. <b>2007,</b>		5
1063	Dynamic Self-Calibration in Collaborative Wireless Networks Using Belief Propagation with Gaussian Particle Filtering. <b>2007,</b>		1
1062	Real-Time Implementation of a GIS-Based Localization System for Intelligent Vehicles. <b>2007,</b> 2007, 1-12		2
1061	Prediction-based Dynamic Energy Management in Wireless Sensor Networks. <b>2007,</b> 7, 251-266		48
1060	Variable-Mass Particle Filter for Road-Constrained Vehicle Tracking. <b>2007,</b> 2008,		6
1059	Simultaneous Eye Tracking and Blink Detection with Interactive Particle Filters. <b>2007,</b> 2008,		19
1058	Particle Filtering for Multisensor Data Fusion With Switching Observation Models: Application to Land Vehicle Positioning. <i>IEEE Transactions on Signal Processing</i> , <b>2007,</b> 55, 2703-2719	4.8	90
1057	Intelligent Fleet Management System with Concurrent GPS & GSM Real-Time Positioning Technology. <b>2007,</b>		26
1056	. <b>2007,</b> 43, 55-70		71
1055	Implementation of the Principle Phase Decomposition Algorithm. <b>2007,</b> 45, 1775-1785		10
1054	Multi-Sensor Fusion Tracking Using Visual Information and WI-FI Location Estimation. <b>2007,</b>		7
1053	A Cheating Detection Mechanism based on Fuzzy Reputation Management of P2P MMOGs. <b>2007,</b>		1
1052	Signal Dragging: Effects of Terminal Movement on War-Driving in CDMA/WCDMA Networks. <b>2007,</b> 211-227		3

1051	Target Tracking by Multiple Particle Filtering. <b>2007,</b>		25
1050	A new bearings-only tracking algorithm for ground moving targets constrained to roads. <b>2007,</b>		2
1049	Position management system for an indoor group of forklifts with a sensor network. <b>2007,</b>		
1048	A Spatial Sampling Scheme Based on Innovations Diffusion in Sensor Networks. <b>2007,</b>		1
1047	Sequential Monte-Carlo techniques and vision-based methods for road signs detection. <b>2007,</b>		
1046	A framework for simultaneous localization and mapping utilizing model structure. <b>2007,</b>		9
1045	Mobility Tracking in Cellular Networks Using Particle Filtering. <i>IEEE Transactions on Wireless Communications</i> , <b>2007</b> , 6, 3589-3599	9.6	65
1044	A New Approach to Cost-Reference Particle Filtering. <b>2007,</b>		
1043	Camshift based real-time multiple faces match tracking. <b>2007,</b>		
1042	Gaussian particle filtering for tracking maneuvering targets. <b>2007,</b>		2
1041	Road Selection Using Multicriteria Fusion for the Road-Matching Problem. <b>2007</b> , 8, 279-291		15
1040	Localization in sensor networks based on log range observations. <b>2007,</b>		7
1039	Bearings-Only Tracking with Biased Measurements. <b>2007,</b>		4
1038	A 6 DoF Navigation Algorithm for Autonomous Underwater Vehicles. <b>2007,</b>		3
1037	Improved Object Tracking with Particle Filter and Mean Shift. <b>2007,</b>		8
1036	Energy-efficient Optimization of Reorganization-Enabled Wireless Sensor Networks. <b>2007</b> , 7, 1793-1816		8
1035	Current map-matching algorithms for transport applications: State-of-the art and future research directions. <b>2007</b> , 15, 312-328		533
1034	Analysis of selection methods for cost-reference particle filtering with applications to maneuvering target tracking and dynamic optimization. <b>2007</b> , 17, 787-807		22



1033	Performance comparison of EKF and particle filtering methods for maneuvering targets. <b>2007</b> , 17, 774-786	36
1032	Tracking human motion using auxiliary particle filters and iterated likelihood weighting. <b>2007</b> , 25, 852-862	35
1031	Analysis of parallelizable resampling algorithms for particle filtering. <b>2007</b> , 87, 3155-3174	50
1030	Partial Linear Gaussian Models for Tracking in Image Sequences Using Sequential Monte Carlo Methods. <b>2007</b> , 74, 75-102	17
1029	Target tracking by fusion of random measures. <b>2007</b> , 1, 149-161	7
1028	Method for underwater target tracking based on an interacting multiple model. <b>2008</b> , 11, 186-190	2
1027	A New Particle Predictor for Fault Prediction of Nonlinear Time-varying Systems. <b>2008</b> , 13, 379-388	16
1026	A framework and automotive application of collision avoidance decision making. <b>2008</b> , 44, 2347-2351	61
1025	Box particle filtering for nonlinear state estimation using interval analysis. <b>2008</b> , 44, 807-815	80
1024	. <b>2008</b> , 57, 1001-1010	13
1023	. <b>2008</b> , 57, 1029-1040	52
1022	Optimal Trajectory Determination for Increased Relative Navigation Observability of Air Vehicles. <b>2008</b> ,	2
1021	. <i>IEEE Transactions on Signal Processing</i> , <b>2008</b> , 56, 937-948	4.8 34
1020	. <i>IEEE Transactions on Signal Processing</i> , <b>2008</b> , 56, 2229-2238	4.8 107
1019	Approximate Conditional Mean Particle Filtering for Linear/Nonlinear Dynamic State Space Models. <i>IEEE Transactions on Signal Processing</i> , <b>2008</b> , 56, 5790-5803	4.8 5
1018	Navigation Technologies for Autonomous Underwater Vehicles. <b>2008</b> , 38, 581-589	164
1017	New Tracking Filter for Single Observer Passive Location and Tracking System. <b>2008</b> ,	
1016	Location Systems: An Introduction to the Technology Behind Location Awareness. <b>2008</b> , 3, 1-122	26

1015	Multiple targets estimation and tracking for ADS-B radar system. <b>2008,</b>	3
1014	Hybrid Extended Particle Filter (HEPF) for integrated civilian navigation system. <b>2008,</b>	10
1013	Adaptive MCMC Particle Filter for Nonlinear and Non-Gaussian State Estimation. <b>2008,</b>	4
1012	Utilizing Model Structure for Efficient Simultaneous Localization and Mapping for a UAV Application. <b>2008,</b>	11
1011	Hybridized GPS/DR Positioning System With Unknown Initial Heading For Land Vehicles. <b>2008,</b>	3
1010	A high order method for estimation of dynamic systems. <b>2008,</b> 56, 401-440	33
1009	A Novel Approach to Mobile Positioning Tracking. <b>2008,</b>	
1008	Wi-Fi based indoor localization and tracking using sigma-point Kalman filtering methods. <b>2008,</b>	20
1007	Ship decoupling-fusing positioning algorithm based on velocity direction constraint. <b>2008,</b>	
1006	Tracking jump processes using particle filtering. <b>2008,</b>	1
1005	Position and orientation estimation using Kalman filtering and particle diltering with one IMU and one position sensor. <b>2008,</b>	2
1004	Demonstrator: V2V Communications in Automotive Multi-Sensor Multi-Target Tracking. <b>2008,</b>	3
1003	A Road Matching Method for Precise Vehicle Localization Using Hybrid Bayesian Network. <b>2008,</b> 12, 176-188	26
1002	Map-Matching Integrity Using Multihypothesis Road-Tracking. <b>2008,</b> 12, 189-201	32
1001	A hybrid approach to 3D arm motion tracking. <b>2008,</b> 30, 259-273	2
1000	Based-on particle filter for vehicle detection and tracking in digital video. <b>2008,</b>	
999	Single ECU object feature tracking based on particle filter. <b>2008,</b>	
998	Suboptimal Soft Range Estimators With Applications in UWB Sensor Networks. <i>IEEE Transactions on Signal Processing</i> , <b>2008,</b> 56, 4856-4866	4.8 8

997	Tracking multiple moving objects in a dynamic environment for autonomous navigation. <b>2008,</b>	3
996	Target tracking with mobile sensors using cost-reference particle filtering. <b>2008,</b>	1
995	Road tracking for multi-hypothesis localization on navigable maps. <b>2008,</b>	1
994	Relative Navigation of Air Vehicles. <b>2008, 31, 824-834</b>	42
993	LOW-COST AND ROBUST POSITIONING SYSTEM FOR INDOOR GROUP OF FORKLIFTS UTILIZING PROBABILITY ESTIMATION AND SENSOR NETWORK. <b>2008, 05, 163-179</b>	
992	Towards applications of particle filters in wildfire spread simulation. <b>2008,</b>	4
991	RLS-assisted cost reference particle filtering. <b>2008,</b>	
990	Identification of nonlinear state space models using an MLP network trained by the EM algorithm. <b>2008,</b>	3
989	Real time face tracking using particle filtering and mean shift. <b>2008,</b>	
988	UWB Multicell Indoor Localization Experiment System with Adaptive TDOA Combination. <b>2008,</b>	7
987	Target Tracking By A New Class Of Cost-Reference Particle Filters. <b>2008,</b>	1
986	V2V Communications in Automotive Multi-Sensor Multi-Target Tracking. <b>2008,</b>	2
985	Hybrid fusion approach combining autonomous and cooperative detection and ranging methods for situation-aware driver assistance systems. <b>2008,</b>	5
984	MANEUVERING TARGET DOPPLER-BEARING TRACKING WITH SIGNAL TIME DELAY USING INTERACTING MULTIPLE MODEL ALGORITHMS. <b>2008, 87, 15-41</b>	17
983	Location estimation using low-resolution optical sensing. <b>2009,</b>	
982	Relative GPS Carrier-Phase positioning using particle filters with position samples. <b>2009,</b>	4
981	Multi-camera Based Human Tracking with Non-overlapping Fields of View. <b>2009,</b>	2
980	Vehicle Tracking Using Projective Particle Filter. <b>2009,</b>	12

979	A multi-model particle filtering algorithm for indoor tracking of mobile terminals using RSS data. <b>2009,</b>		7
978	A Novel Particle Filtering Framework Using Genetic Monte Carlo Sampling. <b>2009,</b>		
977	Image Restoration Based on Adaptive MCMC Particle Filter. <b>2009,</b>		3
976	A Bayesian approach for tracking undersea narrow telecommunication cables. <b>2009,</b>		4
975	A minimum entropy estimation based mobile positioning algorithm. <i>IEEE Transactions on Wireless Communications</i> , <b>2009</b> , 8, 24-27	9.6	3
974	An image registration algorithm using a particle filters. <b>2009,</b>		1
973	Object Tracking Using Point Matching Based on MCMC. <b>2009,</b>		1
972	A Novel Strategy for Visual Tracking and Visual Information Extraction. <b>2009,</b>		
971	Using a-priori information to improve the accuracy of indoor dynamic localization. <b>2009,</b>		3
970	Sonar sensor models and their application to mobile robot localization. <b>2009</b> , 9, 10217-43		31
969	Improved Filter Strategies for Precise Geolocation of Unexploded Ordnance using IMU/GPS Integration. <b>2009</b> , 62, 365-382		4
968	Particle Filtering for State Estimation in Nonlinear Industrial Systems. <b>2009</b> , 58, 3885-3900		53
967	A New Evolutionary Particle Filter for the Prevention of Sample Impoverishment. <b>2009</b> , 13, 801-809		69
966	A Bayesian Approach to Multipath Mitigation in GNSS Receivers. <b>2009</b> , 3, 695-706		60
965	Nonlinear Filtering in GNSS Pseudorange Dynamics Estimation Combining Code Delay and Carrier Phase. <b>2009</b> , 3, 639-650		7
964	Fusing GNSS, Dead-Reckoning, and Enhanced Maps for Road Vehicle Lane-Level Navigation. <b>2009</b> , 3, 798-809		47
963	RSSI-Based Indoor Localization and Tracking Using Sigma-Point Kalman Smoothers. <b>2009</b> , 3, 860-873		182
962	Particle Filter SLAM with High Dimensional Vehicle Model. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , <b>2009</b> , 55, 249-266	2.9	23

961	Variance reduction techniques in particle-based visual contour tracking. <b>2009</b> , 42, 2372-2391	7
960	Adaptive particle sampling and adaptive appearance for multiple video object tracking. <b>2009</b> , 89, 1844-1849	22
959	Consistent outdoor vehicle localization by bounded-error state estimation. <b>2009</b> ,	13
958	Fast mean shift and particle filtering based visual human tracking. <b>2009</b> ,	
957	Cramér-Rao Bound Analysis of Positioning Approaches in GNSS Receivers. <i>IEEE Transactions on Signal Processing</i> , <b>2009</b> , 57, 3775-3786	4.8 35
956	Detection and Interpretation of Human Walking Gestures for Human-Robot Interaction. <b>2009</b> ,	1
955	Collision Detection System Based on Differential Carrier-Phase GPS Broadcasts. <b>2009</b> ,	
954	A modified multidimensional scaling with embedded particle filter algorithm for cooperative positioning of vehicular networks. <b>2009</b> ,	15
953	A New Multiple-Objects Tracking Method with Particle Filter. <b>2009</b> ,	
952	Research on Small Object Detection and Tracking Based on Particle Filter. <b>2009</b> ,	
951	In-Car Positioning and Navigation Technologies A Survey. <b>2009</b> , 10, 4-21	358
950	. <b>2009</b> ,	
949	Multi-camera based human tracking with non-Overlapping fields of view. <b>2009</b> ,	2
948	Angle-based indoor positioning system for open indoor environments. <b>2009</b> ,	19
947	. <b>2009</b> ,	2
946	Distributed Scalable Multi-Target Tracking with a Wireless Sensor Network. <b>2009</b> ,	2
945	Improved target tracking with road network information. <b>2009</b> ,	9
944	Bayesian techniques for onboard train localization. <b>2009</b> ,	1

943	Transmission rate allocation in multisensor target tracking over a shared network. <b>2009</b> , 39, 348-62	8
942	Cost-Reference Particle Filters and Fusion of Information. <b>2009</b> ,	
941	Statistical Methods for Target Tracking. <b>2009</b> , 2820	0
940	Experimental Evaluation of a Particle Filter-based Approach for Visually Tracking Undersea Cables. <b>2009</b> , 42, 140-145	1
939	The Rao-Blackwellized Particle Filter: A Filter Bank Implementation. <b>2010</b> , 2010,	10
938	Assessment of particle filter and Kalman filter for estimating velocity using odometry system. <b>2010</b> , 30, 204-209	8
937	Analysis of a sensor fusion hybrid solution for indoor/outdoor robot navigation. <b>2010</b> ,	
936	3D mapping with multi-resolution occupied voxel lists. <b>2010</b> , 28, 169-185	64
935	Robuste funkbasierte Sensornetze [Aktuelle Forschungsaktivitäten und innovative Lösungsansätze für infrastrukturlose Positionierungssysteme. <b>2010</b> , 127, 47-55	
934	A perturbation method for estimation of dynamic systems. <b>2010</b> , 60, 303-325	15
933	A Hybrid Particle Approach for GNSS Applications With Partial GPS Outages. <b>2010</b> , 59, 498-505	21
932	Unconstrained Biometric Identification: Emerging Technologies. <b>2010</b> , 43, 56-62	24
931	An analysis of communication and navigation issues in collision avoidance support systems. <b>2010</b> , 18, 351-366	40
930	Speed Estimation from Single Loop Data Using an Unscented Particle Filter. <b>2010</b> , 25, 494-503	9
929	Bartendr. <b>2010</b> ,	163
928	Particle Filtering: The Need for Speed. <b>2010</b> , 2010,	32
927	Computer vision based guidance in UAVs. <b>2010</b> , 35, 1-6	0
926	Decentralization of particle filters using arbitrary state decomposition. <b>2010</b> ,	1

925	Non-Linear State estimation using pre-trained neural networks. <b>2010,</b>	1
924	Hybrid Data Fusion and Tracking for Positioning with GNSS and 3GPP-LTE. <b>2010, 2010, 1-12</b>	28
923	Research of particle filter tracking algorithm based on structural similarity. <b>2010,</b>	1
922	Modular control for human motion analysis and classification in Human-Robot interaction. <b>2010,</b>	2
921	An adaptive particle filter for MEMS based SINS nonlinear initial alignment. <b>2010,</b>	1
920	A particle filter with optimal discrete density for hybrid state estimation. <b>2010,</b>	
919	Mobility Assisted Distributed Tracking in Hybrid Sensor Networks. <b>2010,</b>	3
918	Adaptive systems of particle filters. <b>2010,</b>	1
917	High-accurate vehicle localization using digital maps and coherency images. <b>2010,</b>	50
916	Robustification of a map aided location process using road direction. <b>2010,</b>	7
915	NLOS Mitigation Prior to Range Estimation Smoothing for Wireless Location Systems. <b>2010,</b>	3
914	. <b>2010,</b>	
913	Intelligent Geolocation in Urban Areas Using Global Positioning Systems, Three-Dimensional Geographic Information Systems, and Vision. <b>2010, 14, 3-12</b>	18
912	A tag-free solution to unobtrusive indoor tracking using wall-mounted ultrasonic transducers. <b>2010</b> ,	10
911	Detection and tracking of threats in aerial infrared images by a minimal path approach. <b>2010,</b>	
910	Intelligent sensor positioning and orientation through constructive neural network-embedded INS/GPS integration algorithms. <b>2010, 10, 9252-85</b>	23
909	A modify target tracking algorithm based on anti-jamming CamShift in dynamic scene. <b>2010,</b>	
908	An Optimized Target Tracing Algorithm for Intelligent Robot. <b>2010,</b>	

907	A computational geometry method for localization using differences of distances. <b>2010</b> , 6, 1-25	11
906	Multi-agent based particle filter for moving object tracking. <b>2010</b> ,	
905	Design of human motion detection and tracking robot based on pyroelectric infrared sensor. <b>2010</b> ,	1
904	Bearing-only target tracking with improved particle filter. <b>2010</b> ,	0
903	Process Performance Prediction for Chemical Mechanical Planarization (CMP) by Integration of Nonlinear Bayesian Analysis and Statistical Modeling. <b>2010</b> , 23, 316-327	25
902	A Nonlinear Filter Coupled With Hospitability and Synthetic Inclination Maps for In-Surveillance and Out-of-Surveillance Tracking. <b>2010</b> , 40, 87-97	11
901	Distributed target tracking using signal strength measurements by a wireless sensor network. <b>2010</b> , 28, 1006-1015	49
900	Kalman Filtering in Wireless Sensor Networks. <b>2010</b> , 30, 66-86	87
899	Efficient parallelized particle filter design on CUDA. <b>2010</b> ,	11
898	An eye localization, tracking and blink pattern recognition system. <b>2010</b> , 6, 1-23	8
897	Lane-Level Integrity Provision for Navigation and Map Matching With GNSS, Dead Reckoning, and Enhanced Maps. <b>2010</b> , 11, 100-112	118
896	Overview of methods for visual-aided pedestrian navigation. <b>2010</b> ,	6
895	Distributed Energy Optimization for Target Tracking in Wireless Sensor Networks. <b>2010</b> , 9, 73-86	60
894	The Use of GPS for the Measurement of Details in Different Areas. <b>2010</b> ,	
893	Research of tracking robot based on SURF features. <b>2010</b> ,	3
892	State estimation using interval analysis and belief-function theory: application to dynamic vehicle localization. <b>2010</b> , 40, 1205-18	33
891	A Kalman/Particle Filter-Based Position and Orientation Estimation Method Using a Position Sensor/Inertial Measurement Unit Hybrid System. <b>2010</b> , 57, 1787-1798	139
890	Research of Tracking Models Based on SURF. <b>2010</b> ,	2



889	Measurements of the effects of multipath interference on timing accuracy in a cellular radio positioning system. <b>2010</b> , 4, 818	6
888	Mobile Sensor Network Control Using Mutual Information Methods and Particle Filters. <b>2010</b> , 55, 32-47	182
887	Particle filter tracking with Mean Shift and joint probability data association. <b>2010</b> ,	1
886	Sensor selection for target tracking in binary sensor networks using particle filter. <b>2010</b> ,	2
885	Particle filter theory and practice with positioning applications. <b>2010</b> , 25, 53-82	323
884	Organisation of Indoor Navigation data from a data query perspective. <b>2010</b> ,	4
883	Towards Mobile Phone Localization without War-Driving. <b>2010</b> ,	158
882	Application of particle filters for indoor positioning using floor plans. <b>2010</b> ,	26
881	Target tracking by symbiotic particle filtering. <b>2010</b> ,	6
880	. <b>2010</b> , 46, 635-655	8
879	Cost-effective constrained particle filter for indoor localization. <b>2010</b> ,	
878	Single beacon navigation: Localization and control of the MARES AUV. <b>2010</b> ,	19
877	Continuous Close-Proximity RSSI-Based Tracking in Wireless Sensor Networks. <b>2010</b> ,	10
876	A model-switching sequential Monte Carlo algorithm for indoor tracking with experimental RSS data. <b>2010</b> ,	
875	Camera-based vehicle localization at intersections using detailed digital maps. <b>2010</b> ,	14
874	Image restoration using a new regularized particle filter. <b>2010</b> ,	
873	A Reset State Estimator Using an Accelerometer for Enhanced Motion Control With Sensor Quantization. <b>2010</b> , 18, 79-90	35
872	On the minimization of different sources of error for an RTT-based indoor localization system without any calibration stage. <b>2010</b> ,	9

871	Bayesian nonlinear filters for Direct Position Estimation. <b>2010,</b>	17
870	Parallelization of particle filter based localization and map matching algorithms on multicore/manycore architectures. <b>2011,</b>	13
869	Mobile robot system realizing autonomous locomotion [Combination of person following and autonomous returning. <b>2011,</b>	
868	Particle Filters With Adaptive Resampling Technique Applied to Relative Positioning Using GPS Carrier-Phase Measurements. <b>2011, 19, 1384-1396</b>	13
867	A parallel resampling scheme and its application to distributed particle filtering in wireless networks. <b>2011,</b>	1
866	. <b>2011,</b>	2
865	Hybrid Indoor Positioning Approaches Based on WSN and RFID. <b>2011,</b>	4
864	Improved particle filter algorithm for INS/GPS integrated navigation system. <b>2011,</b>	2
863	Self localisation using embodied data for a hybrid leg-wheel robot. <b>2011,</b>	2
862	Particle filter vehicle localization and map-matching using map topology. <b>2011,</b>	27
861	Simulations and measurements of the radio channel propagation parameters in urban and industrial environments for emergency localization. <b>2011,</b>	4
860	Driver interference and risk in semiautonomous braking under uncertainty. <b>2011,</b>	
859	. <b>2011,</b>	1
858	Overlapping vehicle tracking via adaptive particle filter with multiple cues. <b>2011,</b>	3
857	Correlation of multiple singular observations and initial state estimation by means of probability distributions of high codimension. <b>2011,</b>	1
856	Multi-robot cooperation based human tracking system using Laser Range Finder. <b>2011,</b>	13
855	Kernel-based object tracking via particle filter and mean shift algorithm. <b>2011,</b>	5
854	Terrain-based road vehicle localisation using particle filters. <b>2011, 49, 1209-1223</b>	19

853	Vehicle localization in urban environments using feature maps and aerial images. <b>2011,</b>	9
852	Bearing-only target tracking using a bank of MAP estimators. <b>2011,</b>	4
851	Gaussian sum filtering based on uniformly Random Design with application to terrain navigation. <b>2011,</b>	
850	Interacting multiple model gaussian particle filter. <b>2011,</b>	
849	6DOF pose estimation using 3D sensors. <b>2011,</b>	
848	Opportunistic Multi-sensor Fusion for Robust Navigation in Smart Environments. <b>2011, 59-68</b>	
847	. <i>IEEE Transactions on Signal Processing</i> , <b>2011, 59, 465-478</b>	4.8 26
846	The ensemble unscented particle filter. <b>2011,</b>	0
845	An improved particle filter algorithm for target tracking in binary wireless sensor networks. <b>2011,</b>	
844	Threat Assessment Based on Adaptive Intuitionistic Fuzzy Neural Network. <b>2011,</b>	4
843	A Multiple-Hypothesis Map-Matching Method Suitable for Weighted and Box-Shaped State Estimation for Localization. <b>2011, 12, 1495-1510</b>	26
842	Indoor location sensing using geo-magnetism. <b>2011,</b>	233
841	Particle filtering with correlated measurement and process noise at the same time. <b>2011, 5, 726</b>	26
840	H-INFINITY FILTER BASED PARTICLE FILTER FOR MANEUVERING TARGET TRACKING. <b>2011, 30, 103-116</b>	7
839	UWB passive navigation in indoor environments. <b>2011,</b>	6
838	Integrated video object tracking with applications in trajectory-based event detection. <b>2011, 22, 673-685</b>	31
837	An Overview of Sequential Bayesian Filtering in Ocean Acoustics. <b>2011, 36, 71-89</b>	66
836	Nonlinear Sequential Bayesian Analysis-Based Decision Making for End-Point Detection of Chemical Mechanical Planarization (CMP) Processes. <b>2011, 24, 523-532</b>	15

- 835 Application of particle filters to a map-matching algorithm. *Gyroscopy and Navigation*, **2011**, 2, 285-292 1 13
- 834 Geolocation of Multiple Targets from Airborne Video Without Terrain Data. *Journal of Intelligent and Robotic Systems: Theory and Applications*, **2011**, 62, 159-183 2.9 9
- 833 (Robust) Edge-based semidefinite programming relaxation of sensor network localization. **2011**, 130, 321-358 20
- 832 A particle filter-based approach for tracking undersea narrow telecommunication cables. **2011**, 22, 283-302 16
- 831 Novel algorithm for geomagnetic navigation. **2011**, 18, 791-799 6
- 830 A new state estimation method for chaotic signals: Map-particle filter method. **2011**, 38, 11442-11446 4
- 829 Towards human motion capture from a camera mounted on a mobile robot. **2011**, 29, 382-393 6
- 828 Intelligent Particle-Filter based robot localization. **2011**,
- 827 Probabilistic Rail Vehicle Localization With Eddy Current Sensors in Topological Maps. **2011**, 12, 1525-1536 27
- 826 Active tracking using Intelligent Fuzzy Controller and kernel-based algorithm. **2011**, 2
- 825 Tracking a mobile node by asynchronous networks. **2011**, 2
- 824 Particle filter models and phase sensitive detection for prognostication and health monitoring of leadfree electronics under shock and vibration. **2011**, 7
- 823 Indoor localization based on LEDs. **2011**, 17
- 822 A network traffic reduction method for cooperative positioning. **2011**, 2
- 821 Auto-Regressive Modeling of the Shadowing for RSS Mobile Tracking. **2011**, 2
- 820 Bearings-only tracking with iterated extended risk sensitive filter. **2011**, 50, 066401
- 819 An Integrated DGPS/IMU Positioning Approach. **2011**, 99-107
- 818 Integrating the Projective Transform with Particle Filtering for Visual Tracking. **2011**, 2011, 1-11 4

817	Pre-trained Neural Networks Used for Non-linear State Estimation. <b>2011,</b>	2
816	Constrained indoor distributed cooperative positioning. <b>2011,</b>	
815	Non-cooperative collision avoidance concept for unmanned aircraft system using satellite-based radar and radio communication. <b>2011,</b>	
814	Belief Condensation Filter for Navigation in Harsh Environments. <b>2011,</b>	
813	Evaluation of algorithms for UWB indoor tracking. <b>2011,</b>	7
812	Comparison of Algorithms for UWB Indoor Location and Tracking Systems. <b>2011,</b>	11
811	Tracking-Based Wireless Intrusion Detection for Vehicular Networks. <b>2011,</b>	4
810	A framework for UWB-based communication and location tracking systems for wireless sensor networks. <b>2011, 11, 9045-68</b>	25
809	The Application of Total Least Squares Method in Data Fitting of Speed Radar. <b>2012, 203, 69-75</b>	2
808	Improving unreliable mobile GIS with swarm-based particle filters. <b>2012,</b>	
807	A Novel Multi-target Detecting and Tracing Method for Robot Vision System. <b>2012,</b>	
806	A simulation study of sensor data fusion using UKF for bucket wheel reclaimer localization. <b>2012,</b>	1
805	Vehicle geo-localization using IMM-UKF multi-sensor data fusion based on virtual 3D city model as a priori information. <b>2012,</b>	1
804	Weight sorting based scheme and architecture for distributed particle filters. <b>2012,</b>	
803	Minimizing driver interference under a probabilistic safety constraint in emergency collision avoidance systems. <b>2012,</b>	
802	Mobile indoor location based on fractional differentiation. <b>2012,</b>	1
801	Tracking an asynchronous sensor with Kalman filters. <b>2012,</b>	
800	A Particle Filtering Scheme for Processing Time Series Corrupted by Outliers. <i>IEEE Transactions on Signal Processing</i> , <b>2012, 60, 4611-4627</b>	4.8 24

799	Robust Fault Detection With Statistical Uncertainty in Identified Parameters. <i>IEEE Transactions on Signal Processing</i> , <b>2012</b> , 60, 5064-5076	4.8	40
798	Stochastic nonlinear model predictive control based on progressive density simplification. <b>2012</b> ,		3
797	Unscented Particle Filter algorithm based on artificial fish swarm algorithm. <b>2012</b> ,		
796	Open-loop feedback control of nonlinear stochastic systems based on deterministic dirac mixture densities. <b>2012</b> ,		2
795	Terrain-based vehicle localization from real-time data using dynamical models. <b>2012</b> ,		3
794	Hierarchical resampling architecture for distributed particle filters. <b>2012</b> ,		3
793	Practical testing application of travel time estimation using applied Monte Carlo Method and adaptive estimation from probes. <b>2012</b> ,		
792	Configurable compressive sensing and processing using tracking information for delay-Doppler radar applications. <b>2012</b> ,		1
791	Particle Filtering Approaches for Multiple Acoustic Source Detection and 2-D Direction of Arrival Estimation Using a Single Acoustic Vector Sensor. <i>IEEE Transactions on Signal Processing</i> , <b>2012</b> , 60, 4719-4733	4.8	49
790	Application of particle filter algorithm in nonlinear constraint optimization problems. <b>2012</b> ,		1
789	Observation and motion models for indoor pedestrian tracking. <b>2012</b> ,		2
788	An improved object tracking method based on particle filter. <b>2012</b> ,		2
787	Object Tracking Algorithm Based on Block LAB Feature Histogram and Particle Filter. <b>2012</b> , 485, 193-199		
786	A Novel Particle Filter Formulation with Application to Terrain-Aided Navigation. <b>2012</b> , 45, 132-139		13
785	Artificial Neural Network Based State Estimators Integrated into Kalmttool. <b>2012</b> , 45, 1547-1552		
784	AUV Terrain-Aided Doppler Navigation using Complementary Filtering. <b>2012</b> , 45, 313-318		6
783	Estimation of Maneuvering Aircraft States and Time-Varying Wind with Turbulence. <b>2012</b> ,		4
782	Estimation of Receiver Aircraft States and Wind Vectors in Aerial Refueling. <b>2012</b> ,		3

781	. <b>2012</b> , 59, 4465-4474		126
780	Some Relations Between Extended and Unscented Kalman Filters. <i>IEEE Transactions on Signal Processing</i> , <b>2012</b> , 60, 545-555	4.8	196
779	Likelihood Consensus and Its Application to Distributed Particle Filtering. <i>IEEE Transactions on Signal Processing</i> , <b>2012</b> , 60, 4334-4349	4.8	118
778	. <b>2012</b> , 37, 431-445		63
777	. <i>IEEE Transactions on Signal Processing</i> , <b>2012</b> , 60, 4497-4508	4.8	26
776	Pedestrian tracking using color, thermal and location cue measurements: a DSMT-based framework. <b>2012</b> , 23, 999-1010		11
775	Edge-based semidefinite programming relaxation of sensor network localization with lower bound constraints. <b>2012</b> , 53, 23-44		8
774	A Parallel Resampling Algorithm for Particle Filtering on Shared-Memory Architectures. <b>2012</b> ,		12
773	Encounter-based noise cancelation for cooperative trajectory mapping. <b>2012</b> ,		
772	. <b>2012</b> ,		19
771	. <b>2012</b> ,		1
770	Particle Filtering and Posterior Cram�r-Rao Bound for 2-D Direction of Arrival Tracking Using an Acoustic Vector Sensor. <b>2012</b> , 12, 363-377		32
769	Mobile robot parallel PF-SLAM based on OpenMP. <b>2012</b> ,		2
768	Face tracking system based on Gentle AdaBoost and Weighted Particle Filter. <b>2012</b> ,		
767	Improved particle filtering by exploring nomadic movements. <b>2012</b> ,		2
766	Map segmentation based SLAM using embodied data. <b>2012</b> ,		
765	Enhancement of Particle Filter Resampling in Vehicle Tracking Via Genetic Algorithm. <b>2012</b> ,		5
764	Circular data processing tools applied to a Phase Open Loop architecture for multi-channels signals tracking. <b>2012</b> ,		5

763	Posterior Cramer-Rao Bound for Inertial Sensors Enhanced Mobile Positioning Under The Random Walk Motion Model. <b>2012</b> , 1, 629-632	4
762	Flood water level prediction and tracking using particle filter algorithm. <b>2012</b> ,	5
761	A novel mobile robot localization approach based on a model switching feature extraction. <b>2012</b> ,	1
760	Simultaneous localization and mapping for non-parametric potential field environments. <b>2012</b> ,	3
759	UWB sensor radar networks for indoor passive navigation. <b>2012</b> ,	8
758	Data assimilation using sequential monte carlo methods in wildfire spread simulation. <b>2012</b> , 22, 1-25	43
757	Bayesian navigation system with particle filtering and dead reckoning in urban canyon environments. <b>2012</b> ,	0
756	GPS-free terrain-based vehicle tracking on road networks. <b>2012</b> ,	1
755	A multi-model sequential Monte Carlo methodology for indoor tracking: Algorithms and experimental results. <b>2012</b> , 92, 2594-2613	5
754	Nonlinear dynamic state estimation in instrumented structures with conditionally linear Gaussian substructures. <b>2012</b> , 30, 89-103	8
753	A new source difference artificial neural network for enhanced positioning accuracy. <b>2012</b> , 23, 105101	17
752	Marginalized particle filter for dependent Gaussian noise processes. <b>2012</b> ,	4
751	Pedestrian tracking with an infrared sensor using road network information. <b>2012</b> , 2012,	7
750	. <b>2012</b> , 13, 887-898	32
749	Map-Aided Integrity Monitoring of a Land Vehicle Navigation System. <b>2012</b> , 13, 848-858	33
748	On the value of collaboration in anchorless robot self-localization. <b>2012</b> ,	
747	Adaptive Data Fusion for Wireless Localization in Harsh Environments. <i>IEEE Transactions on Signal Processing</i> , <b>2012</b> , 60, 1585-1596	4.8 81
746	VIRTUS: A resilient location-aware video unicast scheme for vehicular networks. <b>2012</b> ,	29



745	Multitarget Tracking via Space Transformations Using a Single Frequency Continuous Wave Radar. <i>IEEE Transactions on Signal Processing</i> , <b>2012</b> , 60, 5217-5229	4.8	11
744	Censoring for Bayesian Cooperative Positioning in Dense Wireless Networks. <b>2012</b> , 30, 1835-1842		40
743	Target maneuver detection using a particle filter with spawn model and particle labeling. <b>2012</b> ,		
742	Improving Accuracy by Iterated Multiple Particle Filtering. <b>2012</b> , 19, 531-534		19
741	Fundamental Limits in the Accuracy of Wireless Positioning. <b>2012</b> , 155-205		
740	Signal Processing for Hybridization. <b>2012</b> , 317-382		2
739	Moving-Target Tracking Based on Particle Filter with TDOA/FDOA Measurements. <b>2012</b> , 34, 260-263		13
738	Virtual 3D City Model for Navigation in Urban Areas. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , <b>2012</b> , 66, 377-399	2.9	26
737	Data fusion in ubiquitous networked robot systems for urban services. <b>2012</b> , 67, 355-375		8
736	Nonlinear Kalman Filters and Particle Filters for integrated navigation of unmanned aerial vehicles. <b>2012</b> , 60, 978-995		64
735	A compact association of particle filtering and kernel based object tracking. <b>2012</b> , 45, 2584-2597		31
734	A Framework for 3D Model-Based Visual Tracking Using a GPU-Accelerated Particle Filter. <b>2012</b> , 18, 68-80		32
733	Bayesian filtering for indoor localization and tracking in wireless sensor networks. <b>2012</b> , 2012,		11
732	Improving GPS Positioning Accuracy Based on Particle Filter Algorithm. <i>Lecture Notes in Electrical Engineering</i> , <b>2013</b> , 139-148	0.2	
731	References. <b>2013</b> , 423-455		
730	Modeling and prediction of nonlinear environmental system using Bayesian methods. <b>2013</b> , 92, 16-31		20
729	Hierarchical Resampling Algorithm and Architecture for Distributed Particle Filters. <b>2013</b> , 71, 237-246		4
728	Belief Condensation Filtering. <i>IEEE Transactions on Signal Processing</i> , <b>2013</b> , 61, 4403-4415	4.8	28

727	Low-Cost MEMS sensors and vision system for motion and position estimation of a scooter. <b>2013</b> , 13, 1510-22		15
726	Fast, parallel implementation of particle filtering on the GPU architecture. <b>2013</b> , 2013,		2
725	Target tracking using particle filter with X-band nautical radar. <b>2013</b> ,		1
724	The design of a distributed control system based on CAN bus. <b>2013</b> ,		0
723	A novel hypothesis splitting method implementation for multi-hypothesis filters. <b>2013</b> ,		2
722	Simultaneous localization and tracking via real-time nonparametric belief propagation. <b>2013</b> ,		7
721	Parallel particle filter for state of charge and health estimation with a long term test. <b>2013</b> ,		3
720	Behavior Pattern Detection for Data Assimilation in Agent-Based Simulation of Smart Environments. <b>2013</b> ,		5
719	Model-based and model-free filtering of genomic data. <b>2013</b> , 2, 109-121		5
718	Estimation of nonlinear control parameters in induction machine using particle filtering. <b>2013</b> ,		1
717	Evaluation of smartphone-based indoor positioning using different Bayes filters. <b>2013</b> ,		7
716	Smartphone-based pedestrian tracking in indoor corridor environments. <b>2013</b> , 17, 359-370		42
715	Development of a GPU Accelerated Terrain Referenced UAV Localization and Navigation Algorithm. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , <b>2013</b> , 70, 477-489	2.9	6
714	On the convergence of two sequential Monte Carlo methods for maximum a posteriori sequence estimation and stochastic global optimization. <b>2013</b> , 23, 91-107		19
713	Particle Filtering for Acoustic Source Tracking in Impulsive Noise With Alpha-Stable Process. <b>2013</b> , 13, 589-600		37
712	Localizaci3n personal en entornos interiores con tecnolog3a RFID. <b>2013</b> , 10, 313-324		1
711	Robust planar tracking via a virtual measurement approach. <b>2013</b> , 19, 146-156		5
710	Geophysical signal processing using sequential Bayesian techniques. <b>2013</b> , 78, V87-V100		1

709	Cooperative localization in mobile networks using nonparametric variants of belief propagation. <b>2013</b> , 11, 138-150	32
708	A 3D visualized expert system for maintenance and management of existing building facilities using reliability-based method. <b>2013</b> , 40, 287-299	33
707	Pedestrian navigation fusing inertial and RSS/TOF measurements with adaptive movement/measurement models: Experimental evaluation and theoretical limits. <b>2013</b> , 203, 249-260	21
706	Layered behavioral trace modeling for threat detection. <b>2013</b> ,	1
705	Optimal Collision Avoidance Trajectories for Unmanned/Remotely Piloted Aircraft. <b>2013</b> ,	14
704	Extension of particle filters for time-varying target presence through split and raw measurements. <b>2013</b> , 7, 517-526	2
703	Tracking of Noncooperative Airborne Targets Using ADS-B Signal and Radar Sensing. <b>2013</b> , 2013, 1-12	6
702	Controlling spontaneous-emission noise in measurement-based feedback cooling of a BoseEinstein condensate. <b>2013</b> , 15, 113060	25
701	Comparing passive source localization and tracking approaches with a towed horizontal receiver array in an ocean waveguide. <b>2013</b> , 134, 3705-20	18
700	A smartphone localization algorithm using RSSI and inertial sensor measurement fusion. <b>2013</b> ,	30
699	Dual-Light Inspection Method for Automatic Pavement Surveys. <b>2013</b> , 27, 534-543	9
698	Research on improving accuracy of GPS positioning based on particle filter. <b>2013</b> ,	4
697	Noise Reduction for Nonlinear Nonstationary Time Series Data using Averaging Intrinsic Mode Function. <b>2013</b> , 6, 407-429	10
696	Using a Map of Measurement Noise to Improve UWB Indoor Position Tracking. <b>2013</b> , 62, 2228-2236	22
695	Spectral Analysis and Mitigation of GPS Multipath Error Using Digital Filtering for Static Applications. <b>2013</b> , 59, 156	9
694	Marginal marginalised particle filter. <b>2013</b> ,	
693	A Sensor-Based Tracking System for Cyclist Group. <b>2013</b> ,	2
692	On the use of particle filters for terrain based navigation of sensor-limited AUVs. <b>2013</b> ,	7

691	Particle state compression scheme for centralized memory-efficient particle filters. <b>2013,</b>		
690	Using Building Plans and Self-Contained Sensors with GNSS Initialization for Indoor Navigation. <b>2013,</b>		3
689	A reformulated systematic resampling algorithm for particle filters and its parallel implementation in an application-specific instruction-set processor. <b>2013,</b>		1
688	Integrated IMU and radiolocation-based navigation using a Rao-Blackwellized particle filter. <b>2013,</b>		6
687	Probabilistic approach to self-localization for autonomous mobile outdoor robotics based on hybrid map knowledge. <b>2013,</b>		
686	Map-assisted Kalman filtering. <b>2013,</b>		3
685	A Particle Filter Based Train Localization Scheme Using Wireless Sensor Networks. <b>2013,</b>		4
684	Efficient tracking and querying for coordinated uncertain mobile objects. <b>2013,</b>		4
683	An Analytical Approach for Comparing Linearization Methods in EKF and UKF. <b>2013,</b> 10, 208		6
682	Particle filtering for obstacle tracking in UAS sense and avoid applications. <b>2014,</b> 2014, 280478		0
681	Action monitoring in cognitive robots. <b>2014,</b>		3
680	A novel anti-spoofing method based on particle filter for GNSS. <b>2014,</b>		9
679	Optimal Collision Avoidance Trajectories via Direct Orthogonal Collocation for Unmanned/Remotely Piloted Aircraft Sense and Avoid Operations. <b>2014,</b>		10
678	On designing robust real-time map-matching algorithms. <b>2014,</b>		3
677	. <i>IEEE Transactions on Signal Processing</i> , <b>2014,</b> 62, 6454-6467	4.8	17
676	Constrained state estimation for individual localization in wireless body sensor networks. <b>2014,</b> 14, 21195-212		1
675	A Novel Method of Macro Block Motion Prediction Using Particle Filter. <b>2014,</b> 511-512, 447-451		
674	Least-squares estimation techniques in stationary bearings-only target localization. <b>2014,</b>		

673	An Online Algorithm for Fingerprint-Based Location Tracking. <b>2014,</b>	1
672	Estimation methods of flexible tip-steerable needles: A comparative study. <b>2014,</b>	2
671	The significance-aware EPFES to estimate a memoryless preprocessor for nonlinear acoustic echo cancellation. <b>2014,</b>	7
670	Nonlinear control and estimation in induction machine using state estimation techniques. <b>2014, 2, 642-654</b>	4
669	Bayesian tracking of time or space varying environment from ship noise recorded on a drifting vector sensor. <b>2014,</b>	0
668	Estimating Contextual Situations Using Indicators from Smartphone Sensor Values. <b>2014,</b>	2
667	Robust localisation for mobile robots in indoor environments. <b>2014,</b>	
666	A low-cost GPS/INS integration based on UKF and BP neural network. <b>2014,</b>	7
665	Interacting multiple model particle filtering using new particle resampling algorithm. <b>2014,</b>	3
664	Application of the KNN algorithm based on KD tree in intelligent transportation system. <b>2014,</b>	3
663	An extended probabilistic self-localization algorithm using hybrid maps. <b>2014,</b>	2
662	Improving cooperative trajectory mapping applications with encounter-based error correction. <b>2014, 29, 68-89</b>	1
661	Fusion of map matching and traffic sign recognition. <b>2014,</b>	6
660	Wheel odometry-based car localization and tracking on vectorial map. <b>2014,</b>	5
659	Network formation games for the link selection of cooperative localization in wireless networks. <b>2014,</b>	14
658	A particle filter for robust calibration of RF ranging systems. <b>2014,</b>	1
657	Triboelectric Nanogenerators as a Self-Powered Motion Tracking System. <b>2014, 24, 5059-5066</b>	64
656	AOA target tracking with new IMM PF algorithm. <b>2014,</b>	0

655	A multi-AUV state estimator for determining the 3D position of tagged fish. <b>2014,</b>	6
654	A new non-linear filtering algorithm for road-constrained vehicle tracking. <b>2014,</b>	
653	Particle filtering for geoacoustic characterization of the soft sediment using ship noise. <b>2014,</b>	
652	. <b>2014, 15, 507-529</b>	76
651	Analysis of filtering methods for the SINS/CNS integrated navigation system of missile motion. <b>2014,</b>	1
650	Map-aided localization with lateral perception. <b>2014,</b>	28
649	Multiple wideband source detection and tracking using a distributed acoustic vector sensor array: A random finite set approach. <b>2014, 94, 583-594</b>	9
648	Automated probabilistic estimation framework in real-time simultaneous objects tracking. <b>2014, 40, 186-203</b>	1
647	Modeling of nonlinear biological phenomena modeled by S-systems. <b>2014, 249, 75-91</b>	11
646	State and parameter estimation for nonlinear biological phenomena modeled by S-systems. <b>2014, 28, 1-17</b>	26
645	Active tracking and pursuit under different levels of occlusion: a two-layer approach. <b>2014, 25, 173-184</b>	3
644	A Hybrid Bayesian Framework for Map Matching: Formulation Using Switching Kalman Filter. <i>Journal of Intelligent and Robotic Systems: Theory and Applications, 2014, 74, 725-743</i>	2.9 7
643	Selective forwarding for energy-efficient target tracking in sensor networks. <b>2014, 94, 557-569</b>	19
642	Efficient Uniform Quantization Likelihood Evaluation for Particle Filters in Embedded Implementations. <b>2014, 75, 191-202</b>	1
641	Sensor Radar Networks for Indoor Tracking. <b>2014, 3, 157-160</b>	35
640	References. <b>2014, 233-244</b>	
639	Using Embodied Data for Localization and Mapping. <b>2014, 31, 263-295</b>	10
638	Vehicle localization enhancement with VANETs. <b>2014,</b>	9

637	Mobile Station Tracking in Multipath Wireless Networks Using Ensemble Square Root Filter. <b>2014,</b>		
636	The elitist particle filter based on evolutionary strategies as novel approach for nonlinear acoustic echo cancellation. <b>2014,</b>		11
635	Order of arrival estimation via UHF-UWB RFID. <b>2014,</b>		3
634	Improved particle filtering for state and parameter estimation- CSTR model. <b>2014,</b>		2
633	On the experiment of multi camera tracking using Kalman filter and FOV lines. <b>2014,</b>		1
632	State estimation and application to induction machines - A comparative study. <b>2014,</b>		2
631	Passive radar via LTE signals of opportunity. <b>2014,</b>		17
630	Prognostics of Lithium-Ion Batteries Based on the Verhulst Model, Particle Swarm Optimization and Particle Filter. <b>2014,</b> 63, 2-17		87
629	A powerful approach to real-time mobile objects tracking in crowded environments utilizing 3D video analysis of fixed camera, particle filter and neural network. <b>2014,</b> 125, 6357-6365		3
628	Bearing-Only Maneuvering Mobile Tracking With Nonlinear Filtering Algorithms in Wireless Sensor Networks. <b>2014,</b> 8, 160-170		31
627	Initial alignment of large misalignment angle in strapdown inertial navigation system based on Gaussian process regression. <b>2014,</b>		
626	Reconstruction of joint covariances in networked linear systems. <b>2014,</b>		4
625	A Machine Learning Approach for Dead-Reckoning Navigation at Sea Using a Single Accelerometer. <b>2014,</b> 39, 672-684		10
624	A Parallel Systematic Resampling Algorithm for High-Speed Particle Filters in Embedded Systems. <b>2014,</b> 33, 3591-3602		2
623	A Terrain Referenced UAV Localization Algorithm Using Binary Search Method. <i>Journal of Intelligent and Robotic Systems: Theory and Applications,</i> <b>2014,</b> 73, 309-323	2.9	7
622	Multiple Wideband Acoustic Source Tracking in 3-D Space Using a Distributed Acoustic Vector Sensor Array. <b>2014,</b> 14, 2502-2513		13
621	RBGF: Recursively Bounded Grid-Based Filter for Indoor Position Tracking Using Wireless Networks. <b>2014,</b> 18, 1234-1237		4
620	The four key challenges of advanced multisensor navigation and positioning. <b>2014,</b>		20

619	Bayesian GNSS/IMU tight integration for precise railway navigation on track map. <b>2014,</b>	6
618	Primate-inspired adaptive routing in intermittently connected mobile communication systems. <b>2014, 20, 1939-1954</b>	10
617	Real-time travel time prediction using particle filtering with a non-explicit state-transition model. <b>2014, 43, 112-126</b>	44
616	Association of optical tracklets from a geosynchronous belt survey via the direct Bayesian admissible region approach. <b>2014, 53, 295-308</b>	17
615	Estimation of state changes in system descriptions for dynamic Bayesian networks by using a genetic procedure and particle filters. <b>2014, 39, 138-145</b>	3
614	Optimal nudging in particle filters. <b>2014, 37, 160-169</b>	5
613	IEEE 802.15.4a CSS-based mobile object locating system using sequential Monte Carlo method. <b>2014, 38, 13-25</b>	6
612	. <b>2014, 8, 96-105</b>	20
611	Adaptive fusion of particle filtering and spatio-temporal motion energy for human tracking. <b>2014, 47, 3552-3567</b>	19
610	Cramer-Rao Lower Bound for a Nonlinear Filtering Problem with Multiplicative Measurement Errors and Forcing Noise. <b>2014, 47, 9557-9562</b>	1
609	Statistical Estimation of GNSS Pseudo-range Errors. <b>2015, 73, 258-265</b>	3
608	A New Algorithm for Lane Level Irregular Driving Identification. <b>2015, 68, 1173-1194</b>	3
607	Fault diagnosis based on intelligent particle filter. <b>2015,</b>	
606	semMatch. <b>2015,</b>	27
605	Human tracking in video surveillance using particle filter. <b>2015,</b>	
604	Fast Object Tracking Employing Labelled Particle Filter for Thermal Infrared Imager. <b>2015, 11, 497639</b>	0
603	Sensor Fusion. <b>2015, 1-22</b>	
602	A Evaluation Test Bed for Outdoor Localization Algorithms Using a High-Precision Positioning System. <b>2015, 48, 34-40</b>	2



601	Identification of Sensor Errors by Using of Nonlinear Filtering. <b>2015</b> , 48, 808-813	3
600	A Bayesian network approach to linear and nonlinear acoustic echo cancellation. <b>2015</b> , 2015,	2
599	OBSERVATION AND BEHAVIOR MODELS FOR SPATIAL PLANNING IN NETWORKS. <b>2015</b> , 71, I_1-I_19	
598	Bioreactor control improves bioprocess performance. <b>2015</b> , 10, 1115-30	49
597	Indoor location-aware medical systems for smart homecare and telehealth monitoring: state-of-the-art. <b>2015</b> , 36, R53-87	42
596	Real-Time and Accurate Indoor Localization with Fusion Model of Wi-Fi Fingerprint and Motion Particle Filter. <b>2015</b> , 2015, 1-13	4
595	Key Parameters Estimation and Adaptive Warning Strategy for Rear-End Collision of Vehicle. <b>2015</b> , 2015, 1-20	2
594	Kalman Filter Sensor Fusion for Mecanum Wheeled Automated Guided Vehicle Localization. <b>2015</b> , 2015, 1-7	17
593	Improvement Schemes for Indoor Mobile Location Estimation: A Survey. <b>2015</b> , 2015, 1-32	38
592	Reduced-Complexity Algorithms for Indoor Map-Aware Localization Systems. <b>2015</b> , 2015, 1-16	
591	Trajectory reconstruction from mobile positioning data using cell-to-cell travel time information. <b>2015</b> , 29, 1941-1954	19
590	. <b>2015</b> , 25, 776-789	24
589	Multi-target tracking via multiple cost-reference particle filtering. <b>2015</b> ,	1
588	Joint Vehicle Trajectory and Model Parameter Estimation Using Road Side Sensors. <b>2015</b> , 15, 5075-5086	8
587	Predicting biomass and grain protein content using Bayesian methods. <b>2015</b> , 29, 1167-1177	2
586	Observation noise modeling based particle filter: An efficient algorithm for target tracking in glint noise environment. <b>2015</b> , 158, 155-166	11
585	A Multiple-Model Particle Filter Based Method for Slide Detection and Compensation in Road Vehicles. <b>2015</b> , 156-165	
584	Select thy neighbors: Low complexity link selection for high precision cooperative vehicular localization. <b>2015</b> ,	11

583	Parameter identification for nonlinear biological phenomena modeled by S-systems. <b>2015</b> ,	2
582	Application of sequential Quasi-Monte Carlo to autonomous positioning. <b>2015</b> ,	
581	Sound target localization in a 2-D microphone array. <b>2015</b> ,	
580	Energy-based order of arrival estimation via UWB-UHF RFID. <b>2015</b> ,	1
579	A novel framework for simultaneous localization and mapping. <b>2015</b> ,	
578	Improved Indoor Positioning Using the Baum-Welch Algorithm. <b>2015</b> ,	2
577	Improving multi-modal data fusion by anomaly detection. <b>2015</b> , 39, 139-154	16
576	A Bank of Maximum A Posteriori (MAP) Estimators for Target Tracking. <b>2015</b> , 31, 85-103	12
575	Adaptive Local Movement Modelling for Object Tracking. <b>2015</b> ,	10
574	MEMS IMU Carouseling for Ground Vehicles. <b>2015</b> , 64, 2242-2251	27
573	Rao-Blackwellization for Adaptive Gaussian Sum Nonlinear Model Propagation. <b>2015</b> , 38, 1290-1295	2
572	Localization and control of an autonomous orchard vehicle. <b>2015</b> , 115, 118-128	40
571	Geometrical entropy approach for variable structure multiple-model estimation. <b>2015</b> , 28, 1131-1146	5
570	Particle filter-based estimation of inter-frequency phase bias for real-time GLONASS integer ambiguity resolution. <b>2015</b> , 89, 1145-1158	30
569	. <b>2015</b> , 23, 2116-2127	5
568	Accuracy Improvement of GPS Positioning Based on GA-Aided Particle Filter. <b>2015</b> , 719-720, 737-743	
567	Potential Game for Energy-Efficient RSS-Based Positioning in Wireless Sensor Networks. <b>2015</b> , 33, 1394-1406	26
566	A New Framework for Rapid Wireless Tracking Verifications Based on Optimized Trajectories in Received Signal Strength Measurements. <b>2015</b> , 45, 1424-1436	14

565	State Space Modeling & Bayesian Inference with Computational Intelligence. <b>2015</b> , 11, 71-101	1
564	Generalised particle filters with Gaussian mixtures. <b>2015</b> , 125, 2643-2673	7
563	An integrated solution for lane level irregular driving detection on highways. <b>2015</b> , 56, 61-79	24
562	A Trust Region-Based Particle Filter Algorithm for Indoor Tracking. <b>2015</b> , 80, 739-750	3
561	Hybridization with Localization Information from Wireless Communications Systems. <b>2015</b> , 169-208	
560	Adaptive Ball Particle Filter and its Application to Visual Tracking. <b>2015</b> , 32, 462-470	7
559	Intelligent Particle Filter and Its Application to Fault Detection of Nonlinear System. <b>2015</b> , 1-1	127
558	Hybrid global navigation satellite systems, differential navigation satellite systems and time of arrival cooperative positioning based on iterative finite difference particle filter. <b>2015</b> , 9, 1699-1709	7
557	A robust Kalman filter for mars entry navigation. <b>2015</b> ,	2
556	Multiple target tracking and stationary object detection in video with Recursive-RANSAC and tracker-sensor feedback. <b>2015</b> ,	11
555	A novel particle filter approach for indoor positioning by fusing WiFi and inertial sensors. <b>2015</b> , 28, 1725-1734	27
554	Enabling persistent autonomy for underwater gliders through terrain based navigation. <b>2015</b> ,	3
553	Using Gaussian-Uniform Mixture Models for Robust Time-Interval Measurement. <b>2015</b> , 64, 3545-3554	11
552	PSO-PF target tracking in range-based Wireless Sensor Networks with distance-dependent measurement noise. <b>2015</b> ,	6
551	Navigation algorithm combining building plans with autonomous sensor data. <i>Gyroscopy and Navigation</i> , <b>2015</b> , 6, 188-196	1 4
550	Tracking handheld object using three layer RGB-D image space. <b>2015</b> ,	0
549	Fast and robust vehicle positioning on graph-based representation of drivable maps. <b>2015</b> ,	13
548	Performance improvement in artificial intelligence-based objects tracking via probabilistic estimation approach. <b>2015</b> , 37, 921-931	2

547	A-contrario approach for outlier detection in GNSS positioning. <b>2015,</b>	2
546	Vehicle Tracking Based on Fusion of Magnetometer and Accelerometer Sensor Measurements With Particle Filtering. <b>2015,</b> 64, 4917-4928	17
545	Light-weight quadrotor with on-board absolute vision-aided navigation. <b>2015,</b>	
544	In the Passenger Seat: Investigating Ride Comfort Measures in Autonomous Cars. <b>2015,</b> 7, 4-17	154
543	Low-cost sensors based Multi-Sensor Data Fusion techniques for RPAS Navigation and Guidance. <b>2015,</b>	3
542	Cellphone geolocation via magnetic mapping. <b>2015,</b> 51, 70-79	3
541	Temporal validation of Particle Filters for video tracking. <b>2015,</b> 131, 42-55	2
540	A Reactive and Scalable Unicast Solution for Video Streaming over VANETs. <b>2015,</b> 64, 614-626	33
539	Bayesian methods for time-varying state and parameter estimation in induction machines. <b>2015,</b> 29, 905-924	6
538	A two-stage visual tracking algorithm using dual-template. <b>2016,</b> 13, 172988141666679	
537	Definition of an Enhanced Map-Matching Algorithm for Urban Environments with Poor GNSS Signal Quality. <b>2016,</b> 16, 193	16
536	Bayesian Train Localization with Particle Filter, Loosely Coupled GNSS, IMU, and a Track Map. <b>2016,</b> 2016, 1-15	19
535	Research on GPS Receiver Autonomous Integrity Monitoring Algorithm In the Occurrence of Two-satellite Faults. <b>2016,</b> 44, 01017	2
534	Particle Filter with Novel Nonlinear Error Model for Miniature Gyroscope-Based Measurement While Drilling Navigation. <b>2016,</b> 16,	10
533	Outlier Detection in GNSS Pseudo-Range/Doppler Measurements for Robust Localization. <b>2016,</b> 16,	10
532	Enabling Persistent Autonomy for Underwater Gliders with Ocean Model Predictions and Terrain-Based Navigation. <b>2016,</b> 3,	8
531	Optimal and Suboptimal Filtering in Integrated Navigation Systems. <b>2016,</b> 244-298	5
530	RF Based Target Search and Localization with microUVA. <b>2016,</b>	1

529	A novel intelligent particle filter for process monitoring. <b>2016,</b>	0
528	. <b>2016,</b> 52, 1967-1985	15
527	Breaking the Gridlock of Spatial Correlations in GPS-Aided IEEE 802.11p-Based Cooperative Positioning. <b>2016,</b> 65, 9554-9569	15
526	A TVAR particle filter with adaptive resampling for frequency estimation. <b>2016,</b>	8
525	Particle filter with Lamarckian inheritance for nonlinear filtering. <b>2016,</b>	3
524	Information fusion algorithm for target tracking of composite seeker. <b>2016,</b>	1
523	Optimizing Ground Vehicle Tracking Using Unmanned Aerial Vehicle and Embedded Apriltag Design. <b>2016,</b>	7
522	Weighting a resampled particle in Sequential Monte Carlo. <b>2016,</b>	6
521	ViTBAT: Video tracking and behavior annotation tool. <b>2016,</b>	22
520	AUV terrain-aided navigation using a Doppler velocity logger. <b>2016,</b> 42, 166-176	8
519	TRing. <b>2016,</b>	18
518	Kalman Filtering with Unknown Sensor Measurement Losses. <b>2016,</b> 49, 315-320	5
517	Terrain navigation in the magnetic landscape: Particle filtering for indoor positioning. <b>2016,</b>	13
516	Gaussian Process for Propagation Modeling and Proximity Reports Based Indoor Positioning. <b>2016,</b>	2
515	Proof of concept study using DSRC, IMU and map fusion for vehicle localization in GNSS-denied environments. <b>2016,</b>	9
514	Geolocation Algorithm of Interference Sources from FDOA Measurements Using Satellites Based on Taylor Series Expansion. <b>2016,</b>	2
513	An Introduction to Twisted Particle Filters and Parameter Estimation in Non-Linear State-Space Models. <i>IEEE Transactions on Signal Processing,</i> <b>2016,</b> 64, 4875-4890	4.8 12
512	Leveraging proximity sensing to mine the behavior of museum visitors. <b>2016,</b>	15

511	An Adaptive Weighting based on Modified DOP for Collaborative Indoor Positioning. <b>2016</b> , 69, 225-245		9
510	Indoor Map Aiding/Map Matching Smartphone Navigation Using Auxiliary Particle Filter. <i>Lecture Notes in Electrical Engineering</i> , <b>2016</b> , 321-331	0.2	2
509	. <b>2016</b> , 52, 350-366		5
508	Bounding Multiple Gaussians Uncertainty with Application to Object Tracking. <b>2016</b> , 118, 364-379		58
507	Vehicle video detection and tracking quality analysis. <b>2016</b> , 26, 155-160		4
506	Enhanced particle filter for states and parameters estimation in structural health monitoring applications. <b>2016</b> , 6, 521-543		3
505	A Diversity Enhanced Particle Filter for Carrier Frequency Offset Estimation in Nonlinear OFDM System. <b>2016</b> , 89, 15-26		2
504	Improving integer ambiguity resolution for GLONASS precise orbit determination. <b>2016</b> , 90, 715-726		20
503	The Limits of In-Run Calibration of MEMS Inertial Sensors and Sensor Arrays. <i>Navigation, Journal of the Institute of Navigation</i> , <b>2016</b> , 63, 127-143	2.3	15
502	Nonlinear projection filter for target tracking using range sensor & optical tracker**This research is supported by EPSRC Research Grant, EP/N010523/1, Balancing the impact of city infrastructure engineering on natural systems using robots.. <b>2016</b> , 49, 438-443		
501	References. <b>2016</b> , 508-522		
500	2-D airborne vehicle tracking using Kalman filter. <b>2016</b> ,		2
499	Combined frame- and event-based detection and tracking. <b>2016</b> ,		32
498	Unsupervised detection and tracking of moving objects for video surveillance applications. <b>2016</b> , 84, 70-77		17
497	Multiple target tracking using thermal imaging and radar sensors. <b>2016</b> ,		2
496	A comparative analysis of Indoor WiFi Positioning at a large building complex. <b>2016</b> ,		15
495	Particle filtering for online motion planning with task specifications. <b>2016</b> ,		13
494	Enhancing digital maps to support reasoning on traffic sign compliance. <b>2016</b> ,		

493 . 2016,

492 . 2016,

491 Unsupervised labelling of sequential data for location identification in indoor environments. **2016**, 61, 386-393 4

490 Smartphone Inertial Sensor-Based Indoor Localization and Tracking With iBeacon Corrections. **2016**, 12, 1540-1549 121

489 Bayesian Learning of Degenerate Linear Gaussian State Space Models Using Markov Chain Monte Carlo. *IEEE Transactions on Signal Processing*, **2016**, 64, 4100-4112 4.8 4

488 . **2016**, 52, 836-851 18

487 Cramér-Rao lower bound in nonlinear filtering problems under noises and measurement errors dependent on estimated parameters. **2016**, 77, 81-105 5

486 Absolute Localization using Image Alignment and Particle Filtering. **2016**, 6

485 Augmenting Wireless Time-of-Arrival Positioning with Terrain Elevation Measurements for Navigation in absence of GPS. **2016**,

484 A-Contrario Modeling for Robust Localization Using Raw GNSS Data. **2016**, 17, 1354-1367 19

483 Anticipating Human Activities Using Object Affordances for Reactive Robotic Response. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, **2016**, 38, 14-29 13.3 232

482 Efficient Kernel-Based Ensemble Gaussian Mixture Filtering. **2016**, 144, 781-800 16

481 Assessing clustering strategies for Gaussian mixture filtering a subsurface contaminant model. **2016**, 535, 1-21 6

480 A survey of autonomous vision-based See and Avoid for Unmanned Aircraft Systems. **2016**, 80, 1-17 40

479 Nonlinear filtering for map-aided navigation Part 2. Trends in the algorithm development. *Gyroscope and Navigation*, **2016**, 7, 82-89 1 17

478 Robust Real-Time Bio-Kinematic Movement Tracking Using Multiple Kinects for Tele-Rehabilitation. **2016**, 63, 1822-1833 18

477 Rao-Blackwellized Particle Smoothers for Conditionally Linear Gaussian Models. **2016**, 10, 353-365 21

476 Sequential FDIA for Autonomous Integrity Monitoring of Navigation Maps on Board Vehicles. **2016**, 17, 143-155 15

475	Fast GPS-DR Sensor Fusion Framework: Removing the Geodetic Coordinate Conversion Process. <b>2016</b> , 17, 2008-2013	8
474	An Improved Fusion Algorithm For Estimating Speed From Smartphone's Ins/Gps Sensors. <b>2016</b> , 235-256	2
473	Rough-Set-Theoretic Fuzzy Cues-Based Object Tracking Under Improved Particle Filter Framework. <b>2016</b> , 24, 695-707	16
472	Estimation of structural changes in nonlinear time series models by using particle filters and genetic programming. <b>2016</b> , 30, 60-75	2
471	Discriminative sequential association latent dirichlet allocation for visual recognition. <b>2016</b> , 19, 719-730	1
470	Mining Evolving Data Streams with Particle Filters. <b>2017</b> , 33, 147-180	1
469	Adaptive Local Movement Modeling for Robust Object Tracking. <b>2017</b> , 27, 1515-1526	29
468	Robust particle filter formulations with application to terrain-aided navigation. <b>2017</b> , 31, 608-651	31
467	Exploiting Density to Track Human Behavior in Crowded Environments. <b>2017</b> , 55, 48-54	3
466	Aircraft re-routing optimization and performance assessment under uncertainty. <b>2017</b> , 96, 67-82	40
465	Large Sample Properties of the Adaptive Gaussian Mixture Filter. <b>2017</b> , 145, 2533-2553	3
464	An auxiliary adaptive Gaussian mixture filter applied to flowrate allocation using real data from a multiphase producer. <b>2017</b> , 102, 34-44	2
463	A High-Precision Detection Approach for Catenary Geometry Parameters of Electrical Railway. <b>2017</b> , 66, 1798-1808	39
462	Distributed Recursive Gaussian Processes for RSS Map Applied to Target Tracking. <b>2017</b> , 11, 492-503	21
461	Evidential Deformable Model for Contour Tracking. Application on Brain Cine MR Sequences. <b>2017</b> , 75-107	
460	A Performance-centric Approach for Complex Decision Support. <b>2017</b> ,	
459	Augmenting Wireless Time-of-Arrival Positioning with Terrain Elevation Measurements for Navigation. <b>2017</b> , 40, 1726-1738	1
458	Integrated method for the UAV navigation sensor anomaly detection. <b>2017</b> , 11, 847-853	20



457	Kalman Filter, Particle Filter and Other Bayesian Filters. <b>2017</b> , 3-148	1
456	An Auxiliary Particle Filtering Algorithm With Inequality Constraints. <b>2017</b> , 62, 4639-4646	15
455	A Speed Hump Sensing Approach to Global Positioning in Urban Cities without Gps Signals. <b>2017</b> ,	1
454	Tracking rigid bodies using only position data: A shadowing filter approach based on newtonian dynamics. <b>2017</b> , 67, 81-90	5
453	A practical polynomial chaos Kalman filter implementation using nonlinear error projection on a reduced polynomial chaos expansion. <b>2017</b> , 112, 1869-1885	1
452	Securing wireless communications of connected vehicles with artificial intelligence. <b>2017</b> ,	23
451	Validation of nonlinear integrated navigation solutions. <b>2017</b> , 43, 91-106	1
450	FPGA Implementation of High Frame Rate and Ultra-Low Delay Tracking with Local-Search Based Block Matching. <b>2017</b> ,	3
449	An offline mobile application for automatic evacuation guiding in outdoor environments. <b>2017</b> , 3,	5
448	Comparison of Unscented and Extended Kalman Filters with Application in Vehicle Navigation. <b>2017</b> , 70, 411-431	21
447	Digital Map Generation and Localization for Vehicles in Urban Intersections using LiDAR and GNSS Data. <b>2017</b> , 50, 251-257	7
446	Spatial Partition-Based Particle Filtering for Data Assimilation in Wildfire Spread Simulation. <b>2017</b> , 3, 1-33	8
445	Connecting the dots across time: reconstruction of single-cell signalling trajectories using time-stamped data. <b>2017</b> , 4, 170811	4
444	A Height Constrained Adaptive Kalman Filtering Based on Climbing Motion Model for GNSS Positioning. <b>2017</b> , 17, 7105-7113	9
443	A novel message passing algorithm for online Bayesian filtering: Turbo filtering. <b>2017</b> ,	2
442	Computation and visualization of posterior densities in scalar nonlinear and non-Gaussian Bayesian filtering and smoothing problems. <b>2017</b> ,	1
441	Fusion of Visible Light Indoor Positioning and Inertial Navigation Based on Particle Filter. <b>2017</b> , 9, 1-13	30
440	Tracking a single pigeon using a shadowing filter algorithm. <b>2017</b> , 7, 4419-4431	8

439	Lane-level map-matching with integrity on high-definition maps. <b>2017,</b>	12
438	Increasing persistent navigation capabilities for underwater vehicles with augmented terrain-based navigation. <b>2017,</b>	2
437	Overlapping Coalition Formation Game Based Opportunistic Cooperative Localization Scheme for Wireless Networks. <b>2017,</b> 1-1	6
436	Implementation of extended Kalman filter-based simultaneous localization and mapping: a point feature approach. <b>2017,</b> 42, 1495-1504	3
435	Comparison of solutions for measurement ambiguity in terrain referenced navigation. <b>2017,</b>	
434	Using the minimum sampling variance resampling algorithm on target tracking. <b>2017,</b>	
433	Particle filter-based estimation of inter-system phase bias for real-time integer ambiguity resolution. <b>2017,</b> 21, 949-961	29
432	A robust scheme for distributed particle filtering in wireless sensors networks. <b>2017,</b> 131, 190-201	20
431	Visualizing, clustering, and predicting the behavior of museum visitors. <b>2017,</b> 38, 430-443	33
430	A Virtual Wind Sensor Based on a Particle Filter. <b>2017,</b> 69-78	1
429	VisualInertial Navigation Systems for Aerial Robotics: Sensor Fusion and Technology. <b>2017,</b> 14, 260-275	44
428	Cooperative parallel particle filters for online model selection and applications to urban mobility. <b>2017,</b> 60, 172-185	96
427	State-of-the-Art in Irregular Driving Detection. <b>2017,</b> 21-42	
426	Object Tracking Using Modified Lossy Extended Kalman Filter. <b>2017,</b>	0
425	Robust multi-feature visual tracking via multi-task kernel-based sparse learning. <b>2017,</b> 11, 1172-1178	11
424	Particle Gibbs with Ancestor Sampling for Identification of Tire-Friction Parameters. <b>2017,</b> 50, 14849-14854	3
423	Underwater Terrain Navigation Using Standard Sea Charts and Magnetic Field Maps. <b>2017,</b>	2
422	Multimodal sensor fusion of inertial, strain, and distance data for state estimation of adaptive structures using particle filtering. <b>2017,</b>	6

421	A particle filter for vehicle tracking with lane level accuracy under GNSS-denied environments. <b>2017</b>	4
420	Performance evaluation of movement prediction techniques for vehicular networks. <b>2017</b> ,	9
419	Estimating localization uncertainty using multi-hypothesis map-matching on high-definition road maps. <b>2017</b> ,	4
418	Correlation particle filter. <b>2017</b> ,	
417	A hybrid fusion based frontal-lateral collaborative pedestrian detection and tracking. <b>2017</b> ,	0
416	Particle filtering with analytically guided sampling. <b>2017</b> , 31, 932-945	1
415	. <b>2017</b> ,	
414	A Fading Factor Unscented Particle Filter and Its Application in INS/GPS Integrated Navigation. <b>2017</b> ,	
413	Data assimilation with sensor-informed resampling for building occupancy simulation. <b>2017</b> ,	1
412	A new prediction unscented Kalman filter based on robust model and its application. <b>2017</b> ,	
411	Map-aided multi-level indoor vehicle positioning. <b>2017</b> ,	
410	VidLoc: A Deep Spatio-Temporal Model for 6-DoF Video-Clip Relocalization. <b>2017</b> ,	84
409	An innovative nonlinear filter for radar kinematic estimation of maneuvering targets in 2D. <b>2017</b> ,	1
408	A likelihood-free particle filter for multi-object tracking. <b>2017</b> ,	3
407	Real-Time FPGA-Based Object Tracker with Automatic Pan-Tilt Features for Smart Video Surveillance Systems. <b>2017</b> , 3, 18	5
406	A New Combined Vision Technique for Micro Aerial Vehicle Pose Estimation. <b>2017</b> , 6, 6	5
405	Road Traffic Anomaly Detection via Collaborative Path Inference from GPS Snippets. <b>2017</b> , 17,	6
404	GNSS/Electronic Compass/Road Segment Information Fusion for Vehicle-to-Vehicle Collision Avoidance Application. <b>2017</b> , 17,	3

403	A New Sparse Gauss-Hermite Cubature Rule Based on Relative-Weight-Ratios for Bearing-Ranging Target Tracking. <b>2017</b> , 2017, 1-11	1
402	Enhancing Relative Positioning Accuracy in Vehicle-to-Vehicle Safety: Multivehicle Kinematics and Nonlinear Particle Filtering Approach. <b>2017</b> , 2645, 131-143	
401	Circular particle fusion filter applied to map matching. <b>2017</b> , 11, 491-500	2
400	MapReduce particle filtering with exact resampling and deterministic runtime. <b>2017</b> , 2017, 71	5
399	Maneuvering target tracking and motion estimation using vision-aid particle filter. <b>2017</b> ,	1
398	Overview of architecture for GPS-INS integration. <b>2017</b> ,	4
397	VANET-Assisted Cooperative Vehicle Mutual Positioning: Feasibility Study. <b>2017</b> , E100.A, 448-456	4
396	Model-Based Localization and Tracking Using Bluetooth Low-Energy Beacons. <b>2017</b> , 17,	40
395	Quadtree-based ancestry tree maps for 2D scattered data SLAM. <b>2018</b> , 32, 215-230	0
394	Building occupancy simulation and data assimilation using a graph-based agent-oriented model. <b>2018</b> , 502, 270-287	4
393	Monitoring of wastewater treatment plants using improved univariate statistical technique. <b>2018</b> , 116, 287-300	29
392	Using Adaptive Motion Constraints to Support UWB/IMU Based Navigation. <i>Navigation, Journal of the Institute of Navigation</i> , <b>2018</b> , 65, 247-261	2.3 3
391	Seismic-induced damage detection through parallel force and parameter estimation using an improved interacting Particle-Kalman filter. <b>2018</b> , 110, 231-247	9
390	Turbo Positioning Using Link Reliability in Wireless Networks. <b>2018</b> , 40, 101-110	1
389	Localization improvement in wireless sensor networks using a new statistical channel model. <b>2018</b> , 271, 283-289	3
388	. <b>2018</b> , 54, 1404-1414	14
387	Estimating Parameters of Nonlinear Systems Using the Elitist Particle Filter Based on Evolutionary Strategies. <b>2018</b> , 26, 595-608	9
386	Map-Aided Dead-Reckoning With Lane-Level Maps and Integrity Monitoring. <b>2018</b> , 3, 81-91	11

385	Fault detection and isolation in GPS receiver autonomous integrity monitoring based on chaos particle swarm optimization-particle filter algorithm. <b>2018</b> , 61, 1260-1272	28
384	Positioning and Digital Maps. <b>2018</b> , 141-174	1
383	Mobility tracking in unknown correlated shadow fading wireless networks. <b>2018</b> , 12, 892-899	3
382	A dynamic fusion system for fast nuclear source detection and localization with mobile sensor networks. <b>2018</b> , 34, 4-19	3
381	A Bayesian Inference Approach to Unveil Supply Curves in Electricity Markets. <b>2018</b> , 33, 2610-2620	18
380	Adaptive particle filter based on Kullback-Leibler distance for underwater terrain aided navigation with multi-beam sonar. <b>2018</b> , 12, 433-441	19
379	PARHELIA: Particle Filter-Based Heart Rate Estimation From Photoplethysmographic Signals During Physical Exercise. <b>2018</b> , 65, 189-198	26
378	Kalman and particle filtering methods for full vehicle and tyre identification. <b>2018</b> , 56, 769-790	12
377	Enabling Robust Localization for Automated Guided Carts in Dynamic Environments. <b>2018</b> , 47-57	1
376	A fusion algorithm of target dynamic information for asynchronous multi-sensors. <b>2018</b> , 24, 3995-4005	6
375	Multi-Vehicle Tracking With Road Maps and Car-Following Models. <b>2018</b> , 19, 1375-1386	33
374	Context-aware personalized path inference from large-scale GPS snippets. <b>2018</b> , 91, 78-88	2
373	Forestry crane posture estimation with a two-dimensional laser scanner. <b>2018</b> , 35, 1025-1049	4
372	Authenticating Communication of Autonomous Vehicles With Artificial Intelligence. <b>2018</b> , 396, 012017	1
371	Design and Trajectory Estimation of Dynamic Motion Model. <b>2018</b> ,	0
370	A Review of Target Tracking Algorithm Based on UAV. <b>2018</b> ,	4
369	Seismic Events Estimation Under Noisy Environments Using Multiple Model Particle Filter. <b>2018</b> ,	8
368	. <b>2018</b> ,	1

367	. <i>IEEE Journal of Radio Frequency Identification</i> , <b>2018</b> , 2, 185-196	2.4	2
366	Improved Dual Tone Multi Frequency identification Using Adaptive Resampling Particle Filter. <b>2018</b> ,		2
365	Performance analysis of parallel/distributed particle filters. <b>2018</b> ,		2
364	Monitoring of Wastewater Treatment Plants using Improved Univariate Statistical Strategy. <b>2018</b> , 51, 428-432		1
363	Particle Filter Based Tracking of Highly Agile Wireless Agents via Random Input Sampling. <b>2018</b> ,		1
362	Nonlinear Acoustic Echo Cancellation Using Elitist Resampling Particle Filter. <b>2018</b> ,		6
361	An Experimental Study on Relative and Absolute Pose Graph Fusion for Vehicle Localization. <b>2018</b> ,		7
360	State Space Models. <b>2018</b> , 265-335		
359	Hybrid Particle Filtering Based on an Elitist Resampling Scheme. <b>2018</b> ,		3
358	In Search for Improved Auxiliary Particle Filters. <b>2018</b> ,		6
357	Ubiquitous Sensing for Enhanced Road Situational Awareness: A Target-Tracking Approach. <b>2018</b> ,		0
356	A particle-filter framework for robust cryo-EM 3D reconstruction. <b>2018</b> , 15, 1083-1089		20
355	Map-Aware Particle Filter for Localization. <b>2018</b> ,		2
354	An Enhanced Hidden Markov Map Matching Model for Floating Car Data. <b>2018</b> , 18,		8
353	A Soft Range Limited K-Nearest Neighbors Algorithm for Indoor Localization Enhancement. <b>2018</b> , 18, 10208-10216		45
352	A Fusion of a Monocular Camera and Vehicle-to-Vehicle Communication for Vehicle Tracking: An Experimental Study. <b>2018</b> ,		2
351	Robust terrain-aided localization of spacecraft using low-fidelity asteroid shape model. <b>2018</b> ,		
350	On Multi-Sensor Radar Configurations for Vehicle Tracking in Autonomous Driving Environments. <b>2018</b> ,		1

349	Fusion of GPS/OSM/DEM Data by Particle Filtering for Vehicle Attitude Estimation. <b>2018,</b>		
348	Improved Interactive Multiple Models Based on Self-Adaptive Turn Model for Maneuvering Target Tracking. <b>2018,</b>		
347	Underwater Terrain Navigation During Realistic Scenarios. <i>Lecture Notes in Electrical Engineering,</i> <b>2018,</b> 186-209	0.2	2
346	Inertial Measurement Units-Based Probe Vehicles: Automatic Calibration, Trajectory Estimation, and Context Detection. <b>2018,</b> 19, 3133-3143		7
345	. <b>2018,</b>		
344	Adaptive genetic particle filter and its application to attitude estimation system. <b>2018,</b> 81, 163-172		11
343	The effect of measurement preprocessing on the accuracy of map-aided navigation. <b>2018,</b>		1
342	Total Variation Regularization Term-Based Low-Rank and Sparse Matrix Representation Model for Infrared Moving Target Tracking. <i>Remote Sensing,</i> <b>2018,</b> 10, 510	5	24
341	A Foot-Mounted Inertial Measurement Unit (IMU) Positioning Algorithm Based on Magnetic Constraint. <b>2018,</b> 18,		3
340	Computationally Efficient Automatic Coast Mode Target Tracking Based on Occlusion Awareness in Infrared Images. <b>2018,</b> 18,		1
339	Heading Estimation of Robot Combine Harvesters during Turning Maneuveres. <b>2018,</b> 18,		4
338	A Robust Localization, Slip Estimation, and Compensation System for WMR in the Indoor Environments. <b>2018,</b> 10, 149		1
337	Overview of indoor positioning system technologies. <b>2018,</b>		9
336	Smartphone-Based Cooperative Indoor Localization with RFID Technology. <b>2018,</b> 18,		53
335	Consistent map building in petrochemical complexes for firefighter robots using SLAM based on GPS and LIDAR. <b>2018,</b> 5,		6
334	An Integrated Likelihood Formulation for Characterizing the Proximity of Position Measurements to Road Segments. <b>2018,</b> 19, 1839-1854		
333	Estimation of IMU orientation using linear Kalman Filter based on correntropy criterion. <b>2018,</b>		1
332	Improvements on the particle-filter-based GLONASS phase inter-frequency bias estimation approach. <b>2018,</b> 22, 1		3

331	Evaluation of the Discrete Time Feedback Particle Filter for IMU-Driven Systems Configured on SE(2). <b>2018</b> ,	0
330	Feature-based Map Matching for Low-Sampling-Rate GPS Trajectories. <b>2018</b> , 4, 1-24	11
329	A Fusion Method for Combining Low-Cost IMU/Magnetometer Outputs for Use in Applications on Mobile Devices. <b>2018</b> , 18,	14
328	Partical filtering for orientation determining using inertial sensors IMU. <b>2018</b> ,	5
327	A Sequential Estimation Algorithm of Particle Filters by Combination of Multiple Independent Features in Evidence. <b>2018</b> , 16, 1263-1270	2
326	. <b>2019</b> , 6, 163-175	21
325	Indoor Localization on Smartphones Using Built-In Sensors and Map Constraints. <b>2019</b> , 68, 1189-1198	45
324	Advanced Parametric Methods for Short-Term Traffic Forecasting in the Era of Big Data. <b>2019</b> , 199-231	0
323	An autonomous and self-locating handling device for reverse engineering systems. <b>2019</b> ,	1
322	Incremental Hopping-Window Pose-Graph Fusion for Real-Time Vehicle Localization. <b>2019</b> ,	2
321	Approach to geomagnetic matching for navigation based on a convolutional neural network and normalised cross-correlation. <b>2019</b> , 13, 1323-1332	3
320	Particle filtering based track-before-detect method for passive array sonar systems. <b>2019</b> , 165, 303-314	23
319	Adaptive square-root unscented Kalman filter: An experimental study of hydraulic actuator state estimation. <b>2019</b> , 132, 670-691	25
318	Pioneer Study on Near-Range Sensing with 4D MIMO-FMCW Automotive Radars. <b>2019</b> ,	3
317	Fast real-time localization with sparse digital maps for connected automated vehicles in urban areas. <b>2019</b> , 52, 366-371	1
316	. <b>2019</b> , 26, 1773-1777	20
315	Research on a Face Real-time Tracking Algorithm Based on Particle Filter Multi-Feature Fusion. <b>2019</b> , 19,	3
314	A Fusion Localization Method based on a Robust Extended Kalman Filter and Track-Quality for Wireless Sensor Networks. <b>2019</b> , 19,	6



313	Multiobjective Optimization Based Sensor Selection for TDOA Tracking in Wireless Sensor Network. <b>2019</b> , 68, 12360-12374		9
312	Weighted Optical Flow Prediction and Attention Model for Object Tracking. <b>2019</b> , 7, 144885-144894		3
311	Research on GRNN-based Particle Filter Algorithm. <b>2019</b> ,		0
310	. <b>2019</b> , 55, 3466-3478		2
309	An efficient urban localization method based on speed humps. <b>2019</b> , 24, 100341		1
308	Multi-dimensional particle filter-based estimation of inter-system phase biases for multi-GNSS real-time integer ambiguity resolution. <b>2019</b> , 93, 1073-1087		10
307	An intrusion detection system for connected vehicles in smart cities. <b>2019</b> , 90, 101842		181
306	A hardware-accelerated particle filter for the geolocation of demersal fishes. <b>2019</b> , 213, 160-171		3
305	A Quaternion-Based Robust Adaptive Spherical Simplex Unscented Particle Filter for MINS/VNS/GNS Integrated Navigation System. <b>2019</b> , 2019, 1-13		1
304	Improved Student's t-Based Unscented Filter and its Application to Trajectory Estimation for Maneuvering Target. <i>Applied Sciences (Switzerland)</i> , <b>2019</b> , 9, 2186	2.6	1
303	. <b>2019</b> , 35, 967-986		19
302	Guidewire Tip Tracking using U-Net with Shape and Motion Constraints. <b>2019</b> ,		2
301	Particle filtering with adaptive resampling scheme for modal frequency identification and dispersion curves estimation in ocean acoustics. <b>2019</b> , 154, 90-98		12
300	An INS/Geomagnetic Integrated Navigation Algorithm Based on Matching Strategy and Hierarchical Filtering. <b>2019</b> , 8, 460		3
299	. <b>2019</b> , 21, 2568-2599		584
298	Improved Correlation Filter Tracking with Enhanced Features and Adaptive Kalman Filter. <b>2019</b> , 19,		1
297	Anti-Interference Aircraft-Tracking Method in Infrared Imagery. <b>2019</b> , 19,		5
296	Offset-based curvilinear path estimation for mid vehicle collision detection and avoidance system using MARS. <b>2019</b> , 7, 54-71		0

295	Urban environment recognition based on the GNSS signal characteristics. <i>Navigation, Journal of the Institute of Navigation</i> , <b>2019</b> , 66, 211-225	2.3	2
294	Multiple features fusion based video face tracking. <b>2019</b> , 78, 21963-21980		4
293	An Improved Resampling Scheme for Particle Filtering in Inertial Navigation System. <b>2019</b> , 555-563		2
292	Multi-target tracking in distributed sensor networks using particle PHD filters. <b>2019</b> , 159, 130-146		17
291	Data-Driven Dynamical Systems. <b>2019</b> , 229-275		1
290	Linear Control Theory. <b>2019</b> , 276-320		1
289	Balanced Models for Control. <b>2019</b> , 321-344		
288	Data-Driven Control. <b>2019</b> , 345-372		0
287	Reduced Order Models (ROMs). <b>2019</b> , 375-402		0
286	Interpolation for Parametric ROMs. <b>2019</b> , 403-435		
285	Glossary. <b>2019</b> , 436-442		
284	Bibliography. <b>2019</b> , 443-470		
283	Index. <b>2019</b> , 471-472		
282	Urban traffic signal control with connected and automated vehicles: A survey. <b>2019</b> , 101, 313-334		124
281	TDOA-Based Mobile Localization Using Particle Filter With Multiple Motion and Channel Models. <b>2019</b> , 7, 21057-21066		11
280	Preface. <b>2019</b> , ix-xii		
279	Singular Value Decomposition (SVD). <b>2019</b> , 3-46		2
278	Fourier and Wavelet Transforms. <b>2019</b> , 47-83		0

277	Sparsity and Compressed Sensing. <b>2019</b> , 84-114	1
276	Regression and Model Selection. <b>2019</b> , 117-153	0
275	Clustering and Classification. <b>2019</b> , 154-194	
274	Neural Networks and Deep Learning. <b>2019</b> , 195-226	
273	Sequential Bayesian Filtering with Particle Smoother for Improving Frequency Estimation in Frequency Domain Approach. <b>2019</b> ,	1
272	Mobile Robot Localization with Reinforcement Learning Map Update Decision aided by an Absolute Indoor Positioning System. <b>2019</b> ,	3
271	Exploring Architectural Solutions for an Energy-Efficient Kalman Filter Gain Realization. <b>2019</b> ,	1
270	Distributed Fault-tolerant Fusion Estimation Based On Multiple-model Extended Kalman Filter. <b>2019</b> ,	
269	Improved Smartphone-based PDR Localization for Arbitrary Placement. <b>2019</b> ,	
268	Enhancing Tracking Accuracy with Exploitation of Mobile Unit Orientation and Antenna Pattern. <b>2019</b> ,	
267	Adaptive Particle Sampling and Resampling in Parallel/Distributed Particle Filters. <b>2019</b> ,	1
266	A Two-level Adaptive Target Recognition and Tracking Method Based on Vision for Multi-robot System. <b>2019</b> ,	0
265	Rao-Blackwellised particle filtering for low-cost encoder/INS/GNSS integrated vehicle navigation with wheel slipping. <b>2019</b> , 13, 1890-1898	4
264	Multi-frame Track-before-detect Algorithm for Passive Sonar System. <b>2019</b> ,	
263	On the Trade-Off between Computational Complexity and Collaborative GNSS Hybridization. <b>2019</b> ,	4
262	Augmenting Car Surrounding Information by Inter-Vehicle Data Fusion. <b>2019</b> ,	2
261	. <b>2019</b> , 7, 159743-159753	6
260	Demonstration of spiral wave front sonar for active localization. <b>2019</b> , 146, 4821	2

259	Smartphone Indoor Positioning System based on BLE iBeacon and Reliable region-based position correction algorithm. <b>2019</b> ,	0
258	Grab-Posisi. <b>2019</b> ,	5
257	Research on Automatic Tracking Mode of Ship Satellite Communication Based on Kalman Theory. <b>2019</b> ,	
256	Particle Filter Object Tracking by a Handheld UHF RFID Reader. <b>2019</b> ,	6
255	All-Electric Aircraft Localization Performance Study via Space Solar Power Satellite Constellation. <b>2019</b> ,	0
254	LaIF: A Lane-Level Self-Positioning Scheme for Vehicles in GNSS-Denied Environments. <b>2019</b> , 20, 2944-2961	13
253	. <i>IEEE Transactions on Signal Processing</i> , <b>2019</b> , 67, 1522-1536	4.8 3
252	Assessing Particle Filter Algorithms for Tracking Radio Emitters using Small Unmanned Aircraft. <b>2019</b> ,	
251	GRNN and KF framework based real time target tracking using PSOC BLE and smartphone. <b>2019</b> , 84, 19-28	40
250	KLD sampling with Gmapping proposal for Monte Carlo localization of mobile robots. <b>2019</b> , 49, 79-88	12
249	Kalman Filtering Framework-Based Real Time Target Tracking in Wireless Sensor Networks Using Generalized Regression Neural Networks. <b>2019</b> , 19, 224-233	67
248	Online Map Matching With Route Prediction. <b>2019</b> , 20, 338-347	28
247	RaoBlackwellized Gaussian Smoothing. <b>2019</b> , 64, 305-312	5
246	A heuristics based global navigation satellite system data reduction algorithm integrated with map-matching. <b>2020</b> , 290, 731-746	1
245	Sensor Reduction of Variable Stiffness Actuated Robots Using Moving Horizon Estimation. <b>2020</b> , 28, 1757-1769	2
244	Proper Orthogonal Decomposition Method to Nonlinear Filtering Problems in Medium-High Dimension. <b>2020</b> , 65, 1613-1624	4
243	A particle filter approach to estimating target location using Brownian bridges. <b>2020</b> , 71, 589-605	3
242	Filtering approaches for online train motion estimation with onboard power measurements. <b>2020</b> , 35, 415-429	4

241	. <b>2020</b> , 56, 2591-2602		3
240	A novel resampling algorithm based on the knapsack problem. <b>2020</b> , 170, 107436		1
239	Particle filter de-noising of voxel-specific time-activity-curves in personalized Lu therapy. <b>2020</b> , 30, 116-134		2
238	Minimax particle filtering for tracking a highly maneuvering target. <b>2020</b> , 30, 636-651		4
237	Improved Particle Filter Resampling Architectures. <b>2020</b> , 92, 555-568		4
236	Human action recognition based on convolutional neural network and spatial pyramid representation. <b>2020</b> , 71, 102722		2
235	Flight Control for UAV Loitering Over a Ground Target With Unknown Maneuver. <b>2020</b> , 28, 2461-2473		7
234	Development of environmental niche models for use in underwater vehicle navigation. <b>2020</b> , 2, 67-77		2
233	UWB Real-Time Location Systems for Smart Factory: Augmentation Methods and Experiments. <b>2020</b> ,		4
232	Flight motion tracking with new configuration of hybrid inertial sensors. <b>2020</b> , 37, 1683-1701		
231	A Map-Aided Navigation Algorithm without Preprocessing of Field Measurements. <i>Gyroscopy and Navigation</i> , <b>2020</b> , 11, 162-175	1	7
230	Optimal Measurement Budget Allocation For Particle Filtering. <b>2020</b> ,		0
229	Implementation of Bayesian Fly Tracking Model using Analog Neuromorphic Circuits. <b>2020</b> ,		0
228	. <b>2020</b> , 8, 178886-178899		10
227	Particle Filtering for Three-Dimensional TDoA-Based Positioning Using Four Anchor Nodes. <b>2020</b> , 20,		10
226	High Definition Map Assisted Vehicle Tracking with Lane Constraint. <b>2020</b> ,		
225	Space infrared tracking of a hypersonic cruise vehicle using an adaptive scaling UKF. <b>2020</b> , 3, 287-296		0
224	A Time-Varying Bayesian Compressed Vector Autoregression for Macroeconomic Forecasting. <b>2020</b> , 8, 192777-192786		2

223	A Cognitive Particle Filter for Collaborative DGNSS Positioning. <b>2020</b> , 8, 194765-194779		8
222	COVID-19 Contact Tracing: Challenges and Future Directions.. <b>2020</b> , 8, 225703-225729		24
221	Modelling the travel time of transit vehicles in real-time through a GTFS-based road network using GPS vehicle locations. <b>2020</b> , 62, 153-167		0
220	Particle Filter for Randomly Delayed Measurements with Unknown Latency Probability. <b>2020</b> , 20,		3
219	Structural correlation filters combined with a Gaussian particle filter for hierarchical visual tracking. <b>2020</b> , 398, 235-246		5
218	Data Fusion Generative Adversarial Network for Multi-Class Imbalanced Fault Diagnosis of Rotating Machinery. <b>2020</b> , 8, 70111-70124		12
217	Application of Improved Simplex Quadrature Cubature Kalman Filter in Nonlinear Dynamic System. <b>2020</b> , 2020, 1-13		0
216	Stable Approximation Schemes for Optimal Filters. <b>2020</b> , 8, 483-509		
215	TrajData: On Vehicle Trajectory Collection With Commodity Plug-and-Play OBU Devices. <i>IEEE Internet of Things Journal</i> , <b>2020</b> , 7, 9066-9079	10.7	20
214	Diffusion Collaborative Feedback Particle Filter. <b>2020</b> , 27, 1185-1189		1
213	Model-based approaches for fault detection. <b>2020</b> , 221-258		1
212	Object Recognition Based Interpolation With 3D LIDAR and Vision for Autonomous Driving of an Intelligent Vehicle. <b>2020</b> , 8, 65599-65608		9
211	Tracking by Risky Particle Filtering over Sensor Networks. <b>2020</b> , 20,		2
210	Joint Adaptive Sampling Interval and Power Allocation for Maneuvering Target Tracking in a Multiple Opportunistic Array Radar System. <b>2020</b> , 20,		4
209	Direct Target Tracking by Distributed Gaussian Particle Filtering for Heterogeneous Networks. <i>IEEE Transactions on Signal Processing</i> , <b>2020</b> , 68, 1361-1373	4.8	10
208	Discrete- and Continuous-State Trajectory Decoders for Positioning in Wireless Networks. <b>2020</b> , 69, 6016-6029		1
207	Object Tracking Based on Channel Attention. <b>2020</b> , 8, 17824-17832		3
206	Importance Densities for Particle Filtering Using Iterated Conditional Expectations. <b>2020</b> , 27, 211-215		1

205	Adaptive relative velocity estimation algorithm for autonomous mobile robots using the measurements on acceleration and relative distance. <b>2020</b> , 34, 372-388	0
204	Autonomous Exploration and Map Construction of a Mobile Robot Based on the TGHM Algorithm. <b>2020</b> , 20,	6
203	Differential Evolution Optimized a Second-Order Divided Difference Particle Filter. <b>2020</b> , 2020, 1-9	
202	Passive Underwater Target Tracking: Conditionally Minimax Nonlinear Filtering with Bearing-Doppler Observations. <b>2020</b> , 20,	5
201	Peer-to-Peer Relative Localization of Aerial Robots With Ultrawideband Sensors. <b>2021</b> , 29, 1981-1996	4
200	Hybrid Unscented Kalman Filter with Rare Features for Underwater Target tracking using Passive Sonar Measurements. <b>2021</b> , 226, 165813	4
199	Enhanced State Estimation Based on Particle Filter and Sensor Data With Non-Gaussian and Multimodal Noise. <b>2021</b> , 9, 60704-60712	2
198	A Vehicle Path Tracking System with Cooperative Recognition of License Plates and Traffic Network Big Data. <b>2021</b> , 1-1	1
197	An improved YOLO-based road traffic monitoring system. <b>2021</b> , 103, 211-230	15
196	Jointly Modeling Motion and Appearance Cues for Robust RGB-T Tracking. <b>2021</b> , 30, 3335-3347	14
195	Modified Continuous-Time Particle Filter Algorithm Without Overflow Errors. <b>2021</b> , 245-257	0
194	Decentralized Fusion of Radar and Lidar Data for Tracking Extended Objects. <b>2021</b> ,	0
193	An Efficient Algorithm for Maneuvering Target Tracking [Tips & Tricks]. <b>2021</b> , 38, 122-130	4
192	Efficient Velocity Estimation and Location Prediction in Underwater Acoustic Sensor Networks. <i>IEEE Internet of Things Journal</i> , <b>2021</b> , 1-1	10.7 5
191	The Effect of Measurement Preprocessing in the Gravity-Aided Navigation. <b>2021</b> , 1	
190	Performance Analysis of Resampling Algorithms of Parallel/Distributed Particle Filters. <b>2021</b> , 9, 4711-4725	2
189	Stratification and optimal resampling for sequential Monte Carlo.	1
188	Adaptive Ultrasound-Based Tractor Localization for Semi-Autonomous Vineyard Operations. <b>2021</b> , 11, 287	3

- 187 Sensor Modeling for Underwater Localization Using a Particle Filter. **2021**, 21, 1
- 186 Novel prior position determination approaches in particle filter for ultra wideband (UWB)-based indoor positioning. *Navigation, Journal of the Institute of Navigation*, **2021**, 68, 277-292 2-3 3
- 185 Data-Driven Object Vehicle Estimation by Radar Accuracy Modeling with Weighted Interpolation. **2021**, 21, 1
- 184 Efficient Reject Options for Particle Filter Object Tracking in Medical Applications. **2021**, 21, 1
- 183 Object detection and tracking in video sequences: formalization, metrics and results. **2021**, 18, 43-60
- 182 Conditioned measurement fused estimate Unscented Kalman Filter for underwater target tracking using acoustic signals captured by Towed array. **2021**, 174, 107742 4
- 181 P3-LOAM: PPP/LiDAR Loosely Coupled SLAM With Accurate Covariance Estimation and Robust RAIM in Urban Canyon Environment. **2021**, 21, 6660-6671 11
- 180 Study on the Arctic Underwater Terrain-Aided Navigation Based on Fuzzy-Particle Filter. **2021**, 23, 1017-1026 2
- 179 Real-Time Vehicle Positioning and Mapping Using Graph Optimization. **2021**, 21, 1
- 178 SIAMATSN: Real-Time Carotid Plaque Tracking and Segmentation of Ultrasonic Videos. **2021**,
- 177 A novel adaptive resampling for sequential Bayesian filtering to improve frequency estimation of time-varying signals. **2021**, 7, e06768 1
- 176 State Estimation Using a Randomized Unscented Kalman Filter for 3D Skeleton Posture. **2021**, 10, 971 3
- 175 Bibliography. **2021**, 207-230
- 174 Maneuvering target tracking based on improved particle filter. **2021**,
- 173 A novel hybrid resampling algorithm for parallel/distributed particle filters. **2021**, 151, 24-37 2
- 172 Cycle-to-cycle queue length estimation from connected vehicles with filtering on primary parameters. **2021**, 2
- 171 Bayesian Source Localization Using Stochastic Computation. **2021**,
- 170 A Lightweight Localization Strategy for LiDAR-Guided Autonomous Robots with Artificial Landmarks. **2021**, 21, 3



169	Vehicle Localization via Cooperative Channel Mapping. <b>2021</b> , 70, 5719-5733	6
168	Integrated control for distributed in-wheel motor drive electric vehicle based on states estimation and nonlinear MPC. 095440702110304	1
167	Survey of Existing RSSI-Based L&T Systems. <b>2022</b> , 49-64	1
166	Motion Model and Filtering Techniques for Scaled Vehicle Localization with Fiducial Marker Detection. <b>2022</b> , 571-585	1
165	Stochastic description and evaluation of ocean acoustics time-series for frequency and dispersion estimation using particle filtering approach. <b>2021</b> , 178, 108010	3
164	Nonlinear State Estimation Using Adaptive Gaussian Filters with One-Step Randomly Delayed Measurements. <b>2022</b> , 203-220	
163	Graph-Based Proprioceptive Localization Using a Discrete Heading-Length Feature Sequence Matching Approach. <b>2021</b> , 37, 1268-1281	1
162	A new measurement association mapping strategy for DOA tracking. <b>2021</b> , 118, 103228	0
161	Remote Sensing Object Tracking With Deep Reinforcement Learning Under Occlusion. <b>2021</b> , 1-13	6
160	Time-Varying DOA Tracking Algorithm Based on Generalized Labeled Multi-Bernoulli. <b>2021</b> , 9, 5943-5950	2
159	Particle Filters: A Hands-On Tutorial. <b>2021</b> , 21,	16
158	Sample Regenerating Particle Filter Combined With Unequal Weight Ensemble Kalman Filter for Nonlinear Systems. <b>2021</b> , 9, 109612-109623	
157	Particle Filtering. 271-331	4
156	Remote Sensing Technologies for Indoor Applications. 649-684	2
155	Encyclopedia of GIS. <b>2008</b> , 559-566	3
154	Tracking of Multiple Objects over Camera Networks with Overlapping and Non-overlapping Views. <b>2011</b> , 103-117	7
153	Cubature Particle Filter Algorithm Base on Integrated Navigation System. <i>Lecture Notes in Electrical Engineering</i> , <b>2014</b> , 259-266	0.2 3
152	Map-Matching in a Real-Time Traffic Monitoring Service. <i>Communications in Computer and Information Science</i> , <b>2014</b> , 425-434	0.3 3

151	An Incremental Map-Matching Algorithm Based on Hidden Markov Model. <b>2014</b> , 579-590		13
150	Wi-Fi and Motion Sensors Based Indoor Localization Combining ELM and Particle Filter. <b>2015</b> , 105-113		1
149	Particle Filter Optimization: A Brief Introduction. <b>2016</b> , 95-104		11
148	Position-Based Interaction for Indoor Ambient Intelligence Environments. <b>2003</b> , 192-207		3
147	Rule-Based Multiple Object Tracking for Traffic Surveillance Using Collaborative Background Extraction. <b>2007</b> , 469-478		5
146	Context-Awareness at the Service of Sensor Fusion Systems: Inverting the Usual Scheme. <b>2011</b> , 653-660		1
145	Bayesian Filtering Methods for Target Tracking in Mixed Indoor/Outdoor Environments. <b>2012</b> , 169-185		1
144	A Map Matching Algorithm for Sharing Map Information among Refugees in Disaster Areas. <b>2012</b> , 23-31		1
143	The Path Inference Filter: Model-Based Low-Latency Map Matching of Probe Vehicle Data. <b>2013</b> , 591-607		18
142	Application of Neural Network Aided Particle Filter in GPS Receiver Autonomous Integrity Monitoring. <i>Lecture Notes in Electrical Engineering</i> , <b>2014</b> , 147-157	0.2	2
141	Ray-Tracing Aided Indoor Bayesian Positioning Algorithm. <i>Lecture Notes in Electrical Engineering</i> , <b>2018</b> , 589-599	0.2	1
140	Data-Driven Science and Engineering: Machine Learning, Dynamical Systems, and Control. <b>2019</b> ,		247
139	Integrated tracking and route classification for travel time estimation based on cellular network signalling data. <b>2020</b> , 14, 1087-1096		1
138	Robust particle filter based on Huber function for underwater terrain-aided navigation. <b>2019</b> , 13, 1867-1875		4
137	A particle-filter framework for robust cryoEM 3D reconstruction.		4
136	Robust iterated extended Kalman filter algorithm for foot-mounted inertial measurement units/ultrawideband fusion positioning. <b>2019</b> , 13, 1		1
135	A general feature-based map matching framework with trajectory simplification. <b>2016</b> ,		16
134	Real-Time Implementation of a GIS-Based Localization System for Intelligent Vehicles. <b>2007</b> , 2007, 039350		8

133	Auction-Based Consensus Mechanism for Cooperative Tracking in Multi-Sensor Surveillance Systems. <b>2010</b> , 14, 13-20	5
132	An Investigation of Sequential Sampling Method for Crossdocking Simulation Output Variance Reduction.	2
131	Self Recurrent Neural Network Based Target Tracking in Wireless Sensor Network using State Observer. <b>2019</b> , 9, 165-178	11
130	MHT Approach to Ubiquitous Monitoring of Spatio-Temporal Phenomena. <b>2018</b> ,	1
129	A New Particle Filter for Nonlinear Filtering Problems. <b>2009</b> , 31, 346-352	13
128	Object tracking algorithm with adaptive color space based on CamShift. <b>2009</b> , 29, 757-760	7
127	Novel particle filtering algorithm with application to bearing-only tracking. <b>2010</b> , 30, 167-170	1
126	Non Linear and Non Gaussian States and Parameters Estimation using Bayesian Methods-Comparatives Studies. <b>2014</b> , 711-748	1
125	A Real Time Topological Map Matching Methodology for GPS/GIS-Based Travel Behavior Studies. 152-170	3
124	A performance analysis of terrain-aided navigation(TAN) algorithms using interferometric radar altimeter. <b>2012</b> , 40, 285-291	7
123	Observational Learning: Imitation Through an Adaptive Probabilistic Approach. <b>2021</b> ,	1
122	An Integrated Localization System with Fault Detection, Isolation and Recovery for Autonomous Vehicles. <b>2021</b> ,	
121	A marginalised particle filter with variational inference for non-linear state-space models with Gaussian mixture noise.	
120	Visual Object Tracking based on Particle Filters with Multiple Observation. <b>2004</b> , 14, 539-544	
119	ENERGY CONSUMPTION PREDICTION USING SEQUENTIAL MONTE CARLO METHODS. <b>2006</b> , 26,	
118	Back Matter. <b>2007</b> , 309-336	
117	COOPERATIVE MULTI TARGET TRACKING USING MULTI SENSOR NETWORK. <b>2008</b> , 1, 716-734	3
116	Time Optimal Target Following by a Mobile Vehicle. <b>2009</b> , 671-678	1

- 115 Smart Environments for Occupancy Sensing and Services. **2010**, 825-849 2
- 114 Back Matter. **2011**, 307-334
- 113 Energy Efficient GPS Emulation through Compasses and Accelerometers for Mobile Phones. **2011**, 191-210
- 112 Human-Centered Fingertip Mandarin Input System Using Single Camera. **2011**, 187-195 1
- 111 Sequential State Estimation. **2011**, 151-234 1
- 110 Particle Filter with Hybrid Proposal Distribution for Nonlinear State Estimation. **2011**, 6, 3
- 109 Gaussian SPPF Based on Evolution Sampling for GPS Bearings-Only System. **2012**, 1045-1052
- 108 A Novel Voronoi Based Particle Filter for Multi-Sensor Data Fusion. **2012**, 03, 1787-1794 1
- 107 Video-based Chinese Input System via Fingertip Tracking. **2012**, 9, 155 1
- 106 Trajectory Generation, Guidance, and Navigation for Terrain Following of Unmanned Combat Aerial Vehicles. **2012**, 40, 979-987
- 105 Localization and Mapping Corrections. **2013**, 249-284
- 104 Fault-tolerant Data-fusion Method: Application on Platoon Vehicle Localization. 21-59
- 103 An Adaptive Hybrid Filter for WiFi-Based Positioning Systems. **2013**, 12, 76-86
- 102 Modèles de Poursuite et Localisation. **2014**, 409-424
- 101 A Real Time Topological Map Matching Methodology for GPS/GIS-Based Travel Behavior Studies. **2015**, 422-439
- 100 Research on GPS Receiver Autonomous Integrity Monitoring Based on Auxiliary Particle Filter. *Lecture Notes in Electrical Engineering*, **2015**, 337-346 0.2
- 99 Motion-compensated speckle tracking via particle filtering. **2015**, 54, 07HF17 3
- 98 Modeling and Monitoring of Chemical System. **2016**, 835-858

97	Tensor Filter: Collaborative Path Inference from GPS Snippets of Vehicles. <b>2016</b> , 103-115		
96	Encyclopedia of GIS. <b>2016</b> , 1-10		
95	Quadratic Kalman Filter Object Tracking with Moving Pictures. <b>2016</b> , 20, 53-58		1
94	A New System for Lane Level Irregular Driving Detection. <b>2017</b> , 43-60		
93	Encyclopedia of GIS. <b>2017</b> , 1026-1035		
92	Drone Tracking Using an Innovative UKF. <b>2017</b> , 301-309		0
91	Exploring New Localization Applications Using a Smartphone. <b>2017</b> , 161-179		
90	Orbit Determination Based on Particle Filtering Algorithm. <i>Lecture Notes in Electrical Engineering</i> , <b>2017</b> , 3-10		0.2
89	MAP MATCHING METHOD WITH CONSIDERATION OF ERROR IN NETWORK COORDINATES. <b>2017</b> , 73, 1_549-1_557		
88	An Enhanced Mobile Device-Based Navigation Model. <b>2018</b> , 9, 1-20		
87	Environment Recognition Based on Temporal Filtering SVM. <i>Lecture Notes in Electrical Engineering</i> , <b>2018</b> , 403-414		0.2
86	Research of GNSS Spoofer Localization Using Information Fusion Based on Particle Filter. <i>Lecture Notes in Electrical Engineering</i> , <b>2018</b> , 315-328		0.2 1
85	A Modified Particle Filter for Cooperative Positioning. <i>Lecture Notes in Electrical Engineering</i> , <b>2019</b> , 2711-2720		
84	Auxiliary-Particle-Filter-Based Two-Filter Smoothing for Wiener State-Space Models. <b>2018</b> ,		1
83	Enhancement of Scan Matching Using an Environmental Magnetic Field. <b>2018</b> , 30, 532-539		1
82	Application of the CIR Model for Spot Short Interest Rates Modelling on the Polish Market. <b>2020</b> , 185-203		
81	Multiple particle filtering for tracking wireless agents via Monte Carlo likelihood approximation. <b>2019</b> , 2019,		1
80	Efficient point cloud corrections for mobile monitoring applications using road/rail-side infrastructure. <b>2021</b> , 53, 235-251		2

- 79 A Map Matching Algorithm for Noisy, Low Frequent Public Transportation GPS Data. **2020**, 0
- 78 Unscented Particle Filtering based on Particle Selection and Weight Optimization for Nonlinear Estimation. **2020**,
- 77 Statistics of spatial rotations and projection directions considering molecular symmetry in 3D electron cryo-microscopy.
- 76 Reconstruction of Missing Trajectory Data: A Deep Learning Approach. **2020**,
- 75 Adapting the Particle Filter Algorithm for the Street Navigation of the Visually Impaired. **2020**,
- 74 A simplified approach to a wheeled mobile robot control on uneven terrain. **2020**,
- 73 Estimation of Parameters of Gaussian Sum Distributed Noises in State-Space Models. **2020**, 53, 2415-2422 1
- 72 Simulating Human Mobility with Agent-based Modeling and Particle Filter Following Mobile Spatial Statistics. **2021**, 0
- 71 Study on Particle Filter Based Terrain Aided Navigation under the Ultra-low Resolution Map of the Arctic. **2020**, 1
- 70 Developing Context-Aware Personal Smart Spaces. 659-676 2
- 69 Particle Filter Application to Localization. **2009**, 317-327
- 68 Real-Time Auditory and Visual Talker Tracking Through Integrating EM Algorithm and Particle Filter. **2007**, 280-290 2
- 67 Multiple Target Tracking for Mobile Robots Using the JPDAF Algorithm. **2009**, 51-68 2
- 66 Augmented inertial navigation using cold atom sensing. **2020**,
- 65 Robust NLOS-Tolerant Localization Filter and NLOS-Tolerant Remote Reference Tracking Control of Mobile Robot in Wireless Sensor Networks. **2021**, 9, 164801-164819 0
- 64 On-Road Object Collision Point Estimation by Radar Sensor Data Fusion. **2021**, 1-11
- 63 A new phenomenological model for frequency dependent hysteresis of bimorph piezoelectric actuator: multi model estimation approach via particle filter. **2020**,
- 62 An Adaptive Infrared Tracking Method for Spacebased Surveillance to a Hypersonic Cruise Vehicle. **2020**, 1

61	Magnetic field norm SLAM using Gaussian process regression in foot-mounted sensors. <b>2021,</b>		0
60	Polynomial Filtering Algorithm Applied to Navigation Data Processing under Quadratic Nonlinearities in System and Measurement Equations. Part 1. Description and Comparison with Kalman Type Algorithms. <i>Gyroscopy and Navigation</i> , <b>2021</b> , 12, 205-223	1	2
59	Deep Ranking-Based DOA Tracking Algorithm. <b>2021,</b>		1
58	An Effective 3D Indoor Localization Approach Based on Fingerprint Fusion Positioning. <b>2021,</b>		0
57	Study on Target Detection and Tracking Method of UAV Based on LiDAR. <b>2021,</b>		1
56	Implementation of a Mobile Multi-Target Search System with 3D SLAM and Object Localization in Indoor Environments. <b>2021,</b>		
55	Online Particle Smoothing With Application to Map-Matching. <i>IEEE Transactions on Signal Processing</i> , <b>2022</b> , 70, 497-508	4.8	1
54	Target Localization by Mobile Handheld UHF RFID Reader and IMU. <i>IEEE Journal of Radio Frequency Identification</i> , <b>2022</b> , 1-1	2.4	
53	Multi-Static UWB Radar-based Passive Human Tracking Using COTS Devices. <i>IEEE Antennas and Wireless Propagation Letters</i> , <b>2022</b> , 1-1	3.8	2
52	Joint Vehicular Localization and Reflective Mapping Based on Team Channel-SLAM. <i>IEEE Transactions on Wireless Communications</i> , <b>2022</b> , 1-1	9.6	
51	Formalization of People and Crowd Detection and Tracking for Smart Video Surveillance. <i>Communications in Computer and Information Science</i> , <b>2022</b> , 79-90	0.3	
50	Streaming Variational Monte Carlo.. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , <b>2022</b> , PP,	13.3	1
49	Uncertainty Constrained Belief Propagation for Cooperative Target Tracking. <i>IEEE Internet of Things Journal</i> , <b>2022</b> , 1-1	10.7	1
48	Particle Filter Design for Robust Nonlinear Control System of Uncertain Heat Exchange Process with Sensor Noise and Communication Time Delay. <i>Applied Sciences (Switzerland)</i> , <b>2022</b> , 12, 2495	2.6	0
47	Identification of Key Wells for Waterflood Optimization Considering Geologic Uncertainty. <b>2022,</b>		1
46	A Flow Feature Clustering-Assisted Uncertainty Analysis Workflow for Optimal Well Rates in Waterflood Projects. <i>SPE Journal</i> , <b>2022</b> , 1-17	3.1	1
45	State Estimators in Soft Sensing and Sensor Fusion for Sustainable Manufacturing. <i>Sustainability</i> , <b>2022</b> , 14, 3635	3.6	1
44	An FPGA-based Power-saving Particle Filter Using Dynamic Reconfiguration. <b>2021,</b>		

43	A particle-filtering framework for integrity risk of GNSS-camera sensor fusion. <i>Navigation, Journal of the Institute of Navigation</i> , <b>2021</b> , 68, 709-726	2.3	
42	Polynomial Filtering Algorithm Applied to Navigation Data Processing under Quadratic Nonlinearities in System and Measurement Equations. Part 2. Solution Examples. <i>Gyroscopy and Navigation</i> , <b>2021</b> , 12, 314-328	1	1
41	Fault Diagnosis of Induction Motors with Imbalanced Data Using Deep Convolutional Generative Adversarial Network. <i>Applied Sciences (Switzerland)</i> , <b>2022</b> , 12, 4080	2.6	2
40	Performance of Fingerprinting-Based Indoor Positioning with Measured and Simulated RSSI Reference Maps. <i>Remote Sensing</i> , <b>2022</b> , 14, 1992	5	2
39	Real-Time Artificial Intelligence Based Visual Simultaneous Localization and Mapping in Dynamic Environments  Review. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , <b>2022</b> , 105,	2.9	1
38	Optimal Intermittent Particle Filter. <i>IEEE Transactions on Signal Processing</i> , <b>2022</b> , 70, 2814-2825	4.8	
37	Continuous social distance monitoring in indoor space. <i>Proceedings of the VLDB Endowment</i> , <b>2022</b> , 15, 1390-1402	3.1	0
36	Position fixing with cold atom gravity gradiometers. <i>AVS Quantum Science</i> , <b>2022</b> , 4, 024404	10.3	0
35	Tracking a Moving Target in 2D Using a Particle Filter Based on Innovative Adaptive Estimation. <i>Lecture Notes in Electrical Engineering</i> , <b>2022</b> , 633-643	0.2	
34	Autonomous Robotic Arm for Object Sorting and Motion Compensation using Kalman Filter. <b>2022</b> ,		
33	Map-Aided Navigation Algorithms Taking into Account the Variability of Position Errors of the Corrected Navigation System. <b>2022</b> ,		1
32	Adaptive Unscented Particle Filter Algorithm for Acoustic Positioning of AUV Docking in Shallow Water. <b>2022</b> ,		
31	Position, Navigation, and Timing (PNT) Through Low Earth Orbit (LEO) Satellites: A Survey on Current Status, Challenges, and Opportunities. <b>2022</b> , 10, 83971-84002		2
30	Learning Car Speed Using Inertial Sensors for Dead Reckoning Navigation. <b>2022</b> , 1-4		0
29	City-Scale Multi-Camera Vehicle Tracking based on Space-Time-Appearance Features. <b>2022</b> ,		0
28	Linear TDOA-based Measurements for Distributed Estimation and Localized Tracking. <b>2022</b> ,		0
27	Improved weighting in particle filters applied to precise state estimation in GNSS. 9,		
26	State space partitioning based on constrained spectral clustering for block particle filtering. <b>2022</b> , 201, 108727		0



25	Car-Like Robot Tracking Using Particle Filter. <b>2022</b> , 239-245	o
24	MeMOT: Multi-Object Tracking with Memory. <b>2022</b> ,	4
23	Toward Holistic Scene Understanding: A Transfer of Human Scene Perception to Mobile Robots. <b>2022</b> , 2-15	o
22	Movement Analytics: Current Status, Application to Manufacturing, and Future Prospects from an AI Perspective.	o
21	A scalable approach for solving chemical master equations based on modularization and filtering.	o
20	Progress in Data Acquisition of Wearable Sensors. <b>2022</b> , 12, 889	o
19	Earth's Gravity Field Models and Their Application. <b>2022</b> , 303-381	o
18	Enhanced EKF-based Time Calibration for GNSS/UWB Tight Integration. <b>2022</b> , 1-1	o
17	Terrain-based vehicle localization using an active suspension system. <b>2022</b> ,	o
16	Parallelizing the cryo-EM structure determination in THUNDER using GPU cluster.	o
15	Balanced Cooperative Target Search of Mobile Sensor Fleet under Localization Uncertainty. <b>2022</b> ,	o
14	GPS-assisted Indoor Pedestrian Dead Reckoning. <b>2022</b> , 6, 1-36	o
13	A New Parallel Resampling Algorithm for GPU-Accelerated Particle Filter. <b>2023</b> ,	o
12	Study on Terrain Aided Localization System of Underwater Glider Based on Particle Filter. <b>2022</b> ,	o
11	An Optimized Combination of Improved Particle Filter and Affine Transformation for Underwater Terrain-Based Localization. <b>2022</b> ,	o
10	Online Motion Sensors Error Modelling for Robust Navigation Using Fast Orthogonal Search. <b>2022</b> ,	o
9	Improving maritime traffic surveillance in inland waterways using the robust fusion of AIS and visual data. <b>2023</b> , 275, 114198	o
8	Battery SOH estimation and RUL prediction framework based on variable forgetting factor online sequential extreme learning machine and particle filter. <b>2023</b> , 65, 107322	o

- 7 Improving Frequency Estimation via Sequential Bayesian Filtering with Firefly Algorithm. **2022,** ○
- 6 Information-Based Mobile Sensor Network Localization and Tracking of an Uncooperative Target. **2022,** ○
- 5 Consensus-based Networked Tracking in Presence of Heterogeneous Time-Delays. **2022,** ○
- 4 Backpropagation Based Deep Multispectral VO Drift Elimination. **2022,** ○
- 3 Multiple AUV Navigation without Using Acoustic Beacons. **2022,** 13, 253-261 ○
- 2 Trajectory tracking method based on Bayesian classifier for pulse array image sensor. **2023,** 62, ○
- 1 A cost-effective Wi-Fi-based indoor positioning system for mobile phones. ○