

# Sanagapallea Koteswara rao

## List of Publications by Year in descending order

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153  
papers

1,241  
citations

566801

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docs citations

166  
times ranked

340  
citing authors

#	ARTICLE	IF	CITATIONS
1	Stochastic analysis approach of extended H-infinity filter for state estimation in uncertain sea environment. International Journal of Systems Assurance Engineering and Management, 2024, 15, 152-160.	1.5	0
2	Acceptance Criteria of Bearings-only Passive Target Tracking Solution. IETE Journal of Research, 2023, 69, 2874-2885.	1.8	3
3	Automated Computer Aided Diagnosis Using Altered Multi-Phase Level Sets in Application to Categorize the Breast Cancer Biopsy Images. IETE Journal of Research, 2023, 69, 4930-4944.	1.8	5
4	Bearings-only Passive Target Tracking: Range Uncertainty Ellipse Zone. IETE Journal of Research, 2022, 68, 2968-2978.	1.8	7
5	Prevalence of shifted Rayleigh filter for passive surveillance in underwater. International Journal of Intelligent Computing and Cybernetics, 2022, 15, 110-123.	1.6	0
6	Uncertainty zone estimation of angles only tracking in undersea environment. Optik, 2022, 262, 169144.	1.4	1
7	Passive Target Tracking in Underwater Environment using Bearing and Frequency Measurements. , 2022, , .		0
8	Neural Unscented Kalman Filter for Submarine Active Target Tracking. , 2022, , .		2
9	Neural Extended/Unscented Kalman Filter for Submarine Passive Target Tracking. , 2022, , .		1
10	Bearings-Only Tracking: Observer Maneuver Recommendation. IETE Journal of Research, 2021, 67, 193-204.	1.8	20
11	Shape and Texture Features Extraction Using Segmented Histopathological Images. Lecture Notes on Data Engineering and Communications Technologies, 2021, , 907-913.	0.5	2
12	Application of Cubature Information Filter for Underwater Target Path Estimation. Pertanika Journal of Science and Technology, 2021, 29, .	0.3	0
13	Application of Sigma Point Particle Filter Method for Passive State Estimation in Underwater. Defence Science Journal, 2021, 71, 507-514.	0.5	6
14	Pervasive underwater passive target tracking for the computation of standard deviation solution in a 3D environment. International Journal of Intelligent Computing and Cybernetics, 2021, ahead-of-print, .	1.6	2
15	Unscented Particle Filter Approach for Underwater Target Tracking. International Journal of E-Collaboration, 2021, 17, 29-40.	0.4	4
16	Measure of nonlinearity for underwater target tracking using hull-mounted sensor. International Journal of Intelligent Computing and Cybernetics, 2021, ahead-of-print, .	1.6	1
17	Underwater Object Tracking using Unscented Kalman Filter. , 2021, , .		1
18	Application of Particle Filter for Passive Underwater Bearing only Tracking. , 2021, , .		1

#	ARTICLE	IF	CITATIONS
19	Underwater State Estimation using Bearings only Measurements with an Emphasis on Sonar. , 2021, , .		0
20	Performance Evaluation of Non-Linear State Estimation Filter in Presence of Non Gaussian Underwater Environment. , 2021, , .		0
21	The Fusion of Bearing and Frequency Measurements from Multi-sensor Arrays for Underwater Target Tracking. , 2021, , .		0
22	Implementation Of underwater target tracking techniques for Gaussian and non-Gaussian environments. Computers and Electrical Engineering, 2020, 87, 106783.	3.0	15
23	A two-stage processing approach for contrast intensified image fusion. World Journal of Engineering, 2020, 17, 68-77.	1.0	1
24	Underwater surveillance in non-Gaussian noisy environment. Measurement and Control, 2020, 53, 250-261.	0.9	12
25	Speech Bandwidth Extension Using DWT-FFT-Based Data Hiding. Radioengineering, 2020, 29, 174-181.	0.3	1
26	Fusion of Angle Measurements from Hull Mounted and Towed Array Sensors. Information (Switzerland), 2020, 11, 432.	1.7	5
27	Tracking Underwater Target Using Angles-only Measurements. , 2020, , .		0
28	Implementation of Unscented Kalman Filter to Autonomous Aerial Vehicle for Target Tracking. , 2020, , .		1
29	A novel estimation algorithm for torpedo tracking in undersea environment. Journal of Central South University, 2019, 26, 673-683.	1.2	10
30	Speech bandwidth extension using transform-domain data hiding. International Journal of Speech Technology, 2019, 22, 305-312.	1.4	2
31	Application and Comparison of Bayesian Framework Algorithms for Underwater State Estimation. , 2019, , .		9
32	Comparison of MGBEKF and UKF Algorithms for Bearings-Only Tracking. International Journal of Emerging Trends in Engineering Research, 2019, 7, 44-47.	0.7	5
33	Extended Kalman Filter for Bearings-Only Tracking. International Journal of Engineering and Advanced Technology, 2019, 8, 637-640.	0.2	7
34	Application of Least Squares Algorithm for Precise GPS Receiver Positioning. Advances in Intelligent Systems and Computing, 2018, , 297-303.	0.5	1
35	Identification of Coseismic Signatures by Comparing Welch and Burg Methods Using GPS TEC. Advances in Intelligent Systems and Computing, 2018, , 335-344.	0.5	0
36	Instantaneous Time Smoothing in GPS Receivers Using Kalman Filter. Advances in Intelligent Systems and Computing, 2018, , 289-296.	0.5	1

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37	Application of Total Least Squares Version of ESPRIT Algorithm for Seismic Signal Processing. Advances in Intelligent Systems and Computing, 2018, , 237-247.	0.5	0
38	Passive Object Tracking Using MGEKF Algorithm. Advances in Intelligent Systems and Computing, 2018, , 277-287.	0.5	3
39	A Couple of Novel Stochastic Estimators Designed and Tested to Promote the Usage of Towed Arrays on the Regular Basis for Passive Tracking. Advances in Intelligent Systems and Computing, 2018, , 645-656.	0.5	0
40	TOA-based source localization using ML estimation. International Journal of Engineering and Technology(UAE), 2018, 7, 742.	0.2	2
41	Breast Cancer Cell-Nuclei Extraction Using Modified Multi-Phase Level Sets. , 2018, , .		0
42	Pendulum state estimation using nonlinear state estimators. International Journal of Engineering and Technology(UAE), 2018, 7, 9.	0.2	0
43	Tracking of pendulum by particle smoother. International Journal of Engineering and Technology(UAE), 2018, 7, 142.	0.2	1
44	Tracking of pendulum using particle filter with residual resampling. International Journal of Engineering and Technology(UAE), 2018, 7, 12.	0.2	0
45	Application of minimum phase wavelet for generation of synthetic seismic signals. International Journal of Engineering and Technology(UAE), 2018, 7, 212.	0.2	0
46	Dual and joint estimation for speech enhancement. International Journal of Engineering and Technology(UAE), 2018, 7, 5.	0.2	1
47	Frequency Estimation Using Minimum Norm Algorithm on Seismic Data. Lecture Notes in Electrical Engineering, 2018, , 153-163.	0.3	1
48	Design of a Robust Estimator for Submarine Tracking in Complex Environments. Lecture Notes in Electrical Engineering, 2018, , 273-282.	0.3	7
49	A Fire Fly Algorithm Based Mobility Prediction For Designing an Efficient Routing in Mobile Adhoc Network. International Journal of Engineering and Technology(UAE), 2018, 7, 394.	0.2	0
50	Estimate-Merge-Technique-based algorithms to track an underwater moving target using towed array bearing-only measurements. Sadhana - Academy Proceedings in Engineering Sciences, 2017, 42, 1617-1628.	0.8	9
51	Supervised Classification of Breast Cancer Malignancy Using Integrated Modified Marker Controlled Watershed Approach. , 2017, , .		16
52	Comparitive study on wind forecasting models for day ahead power markets. , 2017, , .		3
53	Integration of local chan vase along with optimization techniques for segmentation. , 2017, , .		2
54	Modified Gain Bearing-only Extended Kalman Filter for Underwater Target Tracking. Indian Journal of Science and Technology, 2017, 10, 1-5.	0.5	1

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55	Application of Parameterized Modified Gain Bearings-Only Extended Kalman Filter for Undersea Tracking. Indian Journal of Science and Technology, 2016, 9, .	0.5	1
56	Modified Polar Extended Kalman Filter (MP-EKF) for Bearings - Only Target Tracking. Indian Journal of Science and Technology, 2016, 9, .	0.5	12
57	Distinguishing Normal and Abnormal ECG Signal. Indian Journal of Science and Technology, 2016, 9, .	0.5	9
58	A novel stochastic estimator using pre-processing technique for long range target tracking in heavy noise environment. Optik, 2016, 127, 4520-4530.	1.4	9
59	Application of maximum entropy method for earthquake signatures using GPSTEC. , 2016, , .		0
60	Observation of ionospheric disturbances for earthquakes (M>4) occurred during June 2013 to July 2014 in Indonesia using wavelets. , 2016, , .		1
61	Analysis of seismo-ionospheric perturbations using modified covariance algorithm. Proceedings of SPIE, 2016, , .	0.8	0
62	Integrated Unscented Kalman filter for underwater passive target tracking with towed array measurements. Optik, 2016, 127, 2840-2847.	1.4	22
63	Contrast Enhanced Low-light Visible and Infrared Image Fusion. Defence Science Journal, 2016, 66, 266.	0.5	5
64	Unscented Kalman Filter with Application to Bearings-only Passive Target Tracking. Indian Journal of Science and Technology, 2016, 9, .	0.5	2
65	Application of Bar-Shalom and Fortmann's Input Estimation for Underwater Target Tracking. Indian Journal of Science and Technology, 2016, 9, .	0.5	1
66	Noise Cancellation in Monte Carlo Simulation. Indian Journal of Science and Technology, 2016, 9, 1-4.	0.5	1
67	Application of Particle Filter using TA Bearing Measurements. Indian Journal of Science and Technology, 2016, 9, .	0.5	2
68	Passive Target Tracking using Intercept Sonar Measurements. Indian Journal of Science and Technology, 2016, 9, .	0.5	1
69	Application of Cubature Kalman Filter for Bearingsonly Target Tracking. Indian Journal of Science and Technology, 2016, 9, .	0.5	1
70	Multi-Sensor Submarine Surveillance System using MGBEKF. Indian Journal of Science and Technology, 2015, 8, .	0.5	13
71	Advanced Submarine Integrated Weapon Control System. Indian Journal of Science and Technology, 2015, 8, .	0.5	10
72	Analysis of Effect of Ballistic Coefficient in the Formulations and Performance of EKF with Emphasis on Air Drag. Indian Journal of Science and Technology, 2015, 8, 1-5.	0.5	10

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73	Underwater Target Tracking using Unscented Kalman Filter. Indian Journal of Science and Technology, 2015, 8, .	0.5	7
74	Underwater Passive Target Tracking in Constrained Environment. Indian Journal of Science and Technology, 2015, 8, .	0.5	7
75	Performance analysis of modified gain extended Kalman filter in underwater passive target tracking for stationary and manoeuvring observer. , 2015, , .		2
76	Medical image watermarking with ANN in wavelet domain. , 2015, , .		4
77	Adaptive noise cancellation using LMS algorithm in Monte Carlo simulation. , 2015, , .		3
78	Passive Target Tracking using Unscented Kalman Filter based on Monte Carlo Simulation. Indian Journal of Science and Technology, 2015, 8, .	0.5	3
79	Recursive Multistage Estimator for Bearings only Passive Target Tracking in ESM EW Systems. Indian Journal of Science and Technology, 2015, 8, .	0.5	19
80	Cannon Fired Ball with Relative Velocity. Indian Journal of Science and Technology, 2015, 8, .	0.5	5
81	Separation and counting of blood cells using geometrical features and distance transformed watershed. , 2014, , .		22
82	Combination of Pseudo Linear Estimator and modified gain bearings-only extended Kalman filter for passive target tracking in abnormal conditions. , 2013, , .		4
83	Design aspects of signal waveform for underwater acoustic communication system. , 2013, , .		0
84	Simplified target location estimation for underwater vehicles. , 2013, , .		0
85	Generation and analysis of tactics for anti-torpedo defense system. , 2013, , .		5
86	Performance Evaluation of Noise Subspace Methods of Frequency Estimation Techniques. Advances in Intelligent and Soft Computing, 2012, , 299-308.	0.2	0
87	Multi-track association and fusion. , 2011, , .		0
88	IMM - Unscented Kalman Filter based tracking of maneuvering targets using active sonar measurements. , 2011, , .		3
89	Doppler-bearing Passive Target Tracking Using a Parameterized Unscented Kalman Filter. IETE Journal of Research, 2010, 56, 69.	1.8	15
90	Data fusion for underwater target tracking. IET Radar, Sonar and Navigation, 2010, 4, 576.	0.9	18

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91	Maximum Likelihood Estimator for Bearings-only Passive Target Tracking in Electronic Surveillance Measure and Electronic Warfare Systems. Defence Science Journal, 2010, 60, 197-203.	0.5	4
92	Unscented Kalman Filter with Application to Bearings- Only Target Tracking. IETE Journal of Research, 2009, 55, 63.	1.8	32
93	Optimizing deployment of multiple decoys to enhance ship survivability. , 2008, , .		7
94	Unscented Kalman Filter With Application To Bearings-Only Passive Manoeuvring Target Tracking. , 2008, , .		10
95	Maneuvering Target Tracking using Pseudo Linear Estimator with Active Sonar Measurements. , 2007, , .		0
96	Processing of Noisy Passive Sonar Measurements. , 2007, , .		0
97	Modified gain extended Kalman filter with application to bearings-only passive manoeuvring target tracking. IET Radar, Sonar & Navigation, 2005, 152, 239.	2.1	43
98	A Recursive Multistage Estimator for Bearings &#8212; Only Passive Target Tracking. , 2005, , .		2
99	Pseudo-linear estimator for bearings-only passive target tracking. IET Radar, Sonar & Navigation, 2001, 148, 16.	2.1	47
100	Algorithm for detection of manoeuvring targets in bearings-only passive target tracking. IET Radar, Sonar & Navigation, 1999, 146, 141.	2.1	19
101	Comments on "Bearings-only and Doppler-bearing tracking using instrumental variables". IEEE Transactions on Aerospace and Electronic Systems, 1999, 35, 370-371.	2.6	0
102	Comments on "A jerk model for tracking highly maneuvering targets" [with reply]. IEEE Transactions on Aerospace and Electronic Systems, 1998, 34, 982-983.	2.6	0
103	Comments on "Canonical transform for tracking with kinematic models" and reply. IEEE Transactions on Aerospace and Electronic Systems, 1998, 34, 1014-1016.	2.6	0
104	Comments on "Low observable target motion analysis using amplitude information" [with reply]. IEEE Transactions on Aerospace and Electronic Systems, 1998, 34, 677-679.	2.6	1
105	Comments on "Uncertainty ellipses and their applications to interval estimation of emitter position". IEEE Transactions on Aerospace and Electronic Systems, 1998, 34, 979-980.	2.6	0
106	Comments on "Properties and performance of extended target motion analysis" [with reply]. IEEE Transactions on Aerospace and Electronic Systems, 1998, 34, 1027-1032.	2.6	0
107	Comments on "Improved tracking of maneuvering targets: the use of turn-rate distributions for acceleration modeling" [with reply]. IEEE Transactions on Aerospace and Electronic Systems, 1998, 34, 701-704.	2.6	0
108	Comments on "Digital tracking filters with high order correlated measurements" [with reply]. IEEE Transactions on Aerospace and Electronic Systems, 1998, 34, 679-680.	2.6	0

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109	Comments on "Estimation of singularities for intercept point forecasting". IEEE Transactions on Aerospace and Electronic Systems, 1998, 34, 1013.	2.6	1
110	Comments on "Passive target tracking using maximum likelihood estimation". IEEE Transactions on Aerospace and Electronic Systems, 1998, 34, 980-981.	2.6	0
111	Comments on "Observability in passive target motion analysis" [with reply]. IEEE Transactions on Aerospace and Electronic Systems, 1998, 34, 700-701.	2.6	0
112	Comments on "Maneuvering target tracking with colored noise" [with reply]. IEEE Transactions on Aerospace and Electronic Systems, 1998, 34, 686-687.	2.6	0
113	Comments on "Discrete-time observability and estimability analysis for bearings-only target motion analysis". IEEE Transactions on Aerospace and Electronic Systems, 1998, 34, 1361-1367.	2.6	7
114	Comments on "Optimal guidance of proportional navigation". IEEE Transactions on Aerospace and Electronic Systems, 1998, 34, 981-982.	2.6	2
115	Comments on "A new model and efficient tracker for a target with curvilinear motion" [with reply]. IEEE Transactions on Aerospace and Electronic Systems, 1998, 34, 687-689.	2.6	0
116	Comments on "Reducing geometric dilution of precision using ridge regression". IEEE Transactions on Aerospace and Electronic Systems, 1997, 33, 329.	2.6	0
117	Comments on "True proportional navigation with maneuvering target". IEEE Transactions on Aerospace and Electronic Systems, 1997, 33, 273-274.	2.6	2
118	Comment: Advances in aircraft-height estimation using distance-measuring equipment. IET Radar, Sonar & Navigation, 1997, 144, 235.	2.1	1
119	Regular iterative algorithms and their implementation on processor arrays. Proceedings of the IEEE, 1988, 76, 259-269.	16.4	259
120	Array architectures for iterative algorithms. Proceedings of the IEEE, 1987, 75, 1304-1321.	16.4	68
121	The rectilinear oscillations of an elliptic cylinder in incompressible micropolar fluid. International Journal of Engineering Science, 1987, 25, 531-548.	2.7	6
122	Design of minimal-degree compensators with assignable poles or structure. Automatica, 1987, 23, 241-245.	3.0	0
123	VLSI arrays for digital signal processing: Part I-A model identification approach to digital filter realizations. IEEE Transactions on Circuits and Systems, 1985, 32, 1105-1118.	0.9	25
124	Orthogonal digital filters for VLSI implementation. IEEE Transactions on Circuits and Systems, 1984, 31, 933-945.	0.9	114
125	Uniqueness of compressible micropolar fluid flows. International Journal of Engineering Science, 1983, 21, 143-153.	2.7	0
126	Rotary oscillations of a spheroid in an incompressible micropolar fluid. International Journal of Engineering Science, 1983, 21, 973-987.	2.7	5



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127	Slow steady rotation of a spheroid in an incompressible micropolar fluid. International Journal of Engineering Science, 1981, 19, 655-687.	2.7	7
128	The rectilinear oscillations of a spheroid in a micropolar fluid. International Journal of Engineering Science, 1981, 19, 161-188.	2.7	8
129	The slow stationary flow of incompressible micropolar fluid past a spheroid. International Journal of Engineering Science, 1981, 19, 189-220.	2.7	16
130	Variational algorithm for the stability of the flow of micropolar fluids with stretch. International Journal of Engineering Science, 1980, 18, 1411-1419.	2.7	5
131	Existence of periodic solutions of the equations of incompressible microstretch fluid flow. International Journal of Engineering Science, 1979, 17, 955-963.	2.7	1
132	Stability of microstretch fluid motions. International Journal of Engineering Science, 1979, 17, 465-473.	2.7	7
133	Circular cylinder oscillating about a mean position in incompressible micropolar fluid. International Journal of Engineering Science, 1972, 10, 185-191.	2.7	6
134	The oscillations of a sphere in a micropolar fluid. International Journal of Engineering Science, 1971, 9, 651-672.	2.7	15
135	Existence of periodic solutions of the equations of incompressible micropolar fluid flow. International Journal of Engineering Science, 1971, 9, 1143-1150.	2.7	9
136	Kinetic energy of incompressible microstretch fluid in a domain bounded by rigid walls. International Journal of Engineering Science, 1971, 9, 1151-1156.	2.7	4
137	Singular control of linear-discrete systems. IEEE Transactions on Automatic Control, 1971, 16, 401-410.	3.6	8
138	Stability of micropolar fluid motions. International Journal of Engineering Science, 1970, 8, 753-762.	2.7	32
139	The slow stationary flow of a micropolar liquid past a sphere. Journal of Engineering Mathematics, 1970, 4, 209-217.	0.6	23
140	Classification of forbidden transitions in X-ray spectra. Journal of Physics B: Atomic and Molecular Physics, 1969, 2, 134-136.	1.6	4
141	Slow steady rotation of a sphere in a micro-polar fluid. International Journal of Engineering Science, 1969, 7, 905-916.	2.7	23
142	Recursive maximum likelihood estimator with application to bearing only position location. , 0, , .		0
143	Target tracking using recursive pseudo linear estimator using highly aperiodic measurements. , 0, , .		0
144	Maximum likelihood and Cramer-Rao lower bound estimators for (nonlinear) bearing only passive target tracking. , 0, , .		1

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145	Modified gain extended Kalman filter with application to angles only underwater passive target tracking. , 0, , .		3
146	Minimum-norm with an application to estimation of bearing angles in passive underwater multi target scenario. , 0, , .		0
147	Target maneuver detection algorithm. , 0, , .		1
148	Application of kalman filter and input estimation for underwater target tracking. , 0, , .		1
149	Application Of Statistical Estimators For Underwater Target Tracking. , 0, , .		3
150	Simplified Target Location Estimation For Underwater Vehicles. , 0, , .		0
151	Pseudo Linear Kalman Filter For Underwater Target Location Using Intercept Sonar Measurements. , 0, , .		5
152	Evaluation of DB-IEKF Algorithm Using Optimization Methods for Underwater Passive Target Tracking. Mobile Networks and Applications, 0, , 1.	2.2	2
153	Implementation of ensemble Kalman filter algorithm for underwater target tracking. Journal of Control and Decision, 0, , 1-10.	0.7	0