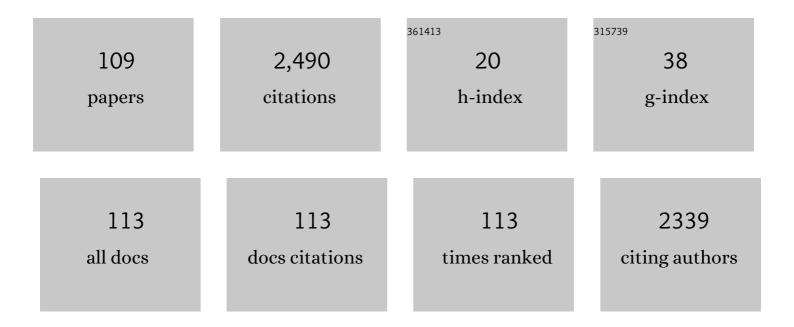
List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/7735604/publications.pdf Version: 2024-02-01



#	Article	IF	CITATIONS
1	Towards Semantic SLAM: 3D Position and Velocity Estimation by Fusing Image Semantic Information with Camera Motion Parameters for Traffic Scene Analysis. Remote Sensing, 2021, 13, 388.	4.0	3
2	Indirect Estimation of Vertical Ground Reaction Force from a Body-Mounted INS/GPS Using Machine Learning. Sensors, 2021, 21, 1553.	3.8	17
3	Gaussian mixture models for signal mapping and positioning. Signal Processing, 2020, 168, 107330.	3.7	12
4	Methods for Long-Term GNSS Clock Offset Prediction. , 2019, , .		1
5	Depth Estimation from Motion Parallax: Experimental Evaluation. , 2019, , .		4
6	On Computational Complexity Reduction Methods for Kalman Filter Extensions. IEEE Aerospace and Electronic Systems Magazine, 2019, 34, 2-19.	1.3	33
7	Relative Importance of Binocular Disparity and Motion Parallax for Depth Estimation: A Computer Vision Approach. Remote Sensing, 2019, 11, 1990.	4.0	18
8	Automatic numerical differentiation by maximum likelihood estimation of a linear Gaussian state space model. , 2019, , .		0
9	Nanosatellite attitude estimation using Kalman-type filters with non-Gaussian noise. Aerospace Science and Technology, 2019, 92, 66-76.	4.8	36
10	Continuous Analysis of Running Mechanics by Means of an Integrated INS/GPS Device. Sensors, 2019, 19, 1480.	3.8	19
11	Damped Posterior Linearization Filter. IEEE Signal Processing Letters, 2018, 25, 536-540.	3.6	10
12	Indoor Localisation using Aroma Fingerprints: Comparing Nearest Neighbour Classification Accuracy using Different Distance Measures. , 2018, , .		2
13	3D Angle-of-Arrival Positioning Using von Mises-Fisher Distribution. , 2018, , .		3
14	Kalman-Type Filters and Smoothers for Pedestrian Dead Reckoning. , 2018, , .		1
15	Skew-\$t\$ Filter and Smoother With Improved Covariance Matrix Approximation. IEEE Transactions on Signal Processing, 2018, 66, 5618-5633.	5.3	34
16	Analyzing the Acquisition and Management of Context. International Journal of Interactive Communication Systems and Technologies, 2018, 8, 1-12.	0.7	0
17	A Survey of Selected Indoor Positioning Methods for Smartphones. IEEE Communications Surveys and Tutorials, 2017, 19, 1347-1370.	39.4	382
18	Kullback–Leibler divergence approach to partitioned update Kalman filter. Signal Processing, 2017, 130, 289-298.	3.7	24

#	Article	IF	CITATIONS
19	Indoor localisation using aroma fingerprints: A first sniff. , 2017, , .		4
20	Gaussian flow sigma point filter for nonlinear Gaussian state-space models. , 2017, , .		2
21	A method for post-mission velocity and orientation estimation based on data fusion from MEMS-IMU and CNSS. , 2017, , .		1
22	Comprehensive survey of similarity measures for ranked based location fingerprinting algorithm. , 2017, , .		12
23	Latent force models in autonomous GNSS satellite orbit prediction. , 2017, , .		3
24	A Survey on Wireless Transmitter Localization Using Signal Strength Measurements. Wireless Communications and Mobile Computing, 2017, 2017, 1-12.	1.2	23
25	Semantic Labeling of User Location Context Based on Phone Usage Features. Mobile Information Systems, 2017, 2017, 1-21.	0.6	2
26	Parametrization and prediction of EGNOS GIVD values. , 2017, , .		0
27	Enabling Technologies for Smart Mobile Services. Mobile Information Systems, 2016, 2016, 1-3.	0.6	1
28	Extended prediction of QZSS orbit and clock. , 2016, , .		1
29	An Introduction to Twisted Particle Filters and Parameter Estimation in Non-Linear State-Space Models. IEEE Transactions on Signal Processing, 2016, 64, 4875-4890.	5.3	16
30	A survey of parametric fingerprint-positioning methods. Gyroscopy and Navigation, 2016, 7, 107-127.	1.3	6
31	Statistical Trilateration With Skew-t Distributed Errors in LTE Networks. IEEE Transactions on Wireless Communications, 2016, 15, 7114-7127.	9.2	17
32	A simplified Solar Radiation Pressure model for GNSS autonomous orbit prediction. , 2016, , .		1
33	Online tests of Kalman filter consistency. International Journal of Adaptive Control and Signal Processing, 2016, 30, 115-124.	4.1	25
34	Gaussian Scale Mixture Models for Robust Linear Multivariate Regression with Missing Data. Communications in Statistics Part B: Simulation and Computation, 2016, 45, 791-813.	1.2	9
35	Graph-based map matching for indoor positioning. , 2015, , .		4
36	Binomial Gaussian mixture filter. Eurasip Journal on Advances in Signal Processing, 2015, 2015, .	1.7	11

#	Article	IF	CITATIONS
37	Kalman filter with a linear state model for PDR+WLAN positioning and its application to assisting a particle filter. Eurasip Journal on Advances in Signal Processing, 2015, 2015, .	1.7	9
38	A NLOS-robust TOA positioning filter based on a skew-t measurement noise model. , 2015, , .		24
39	Gaussian filtering and variational approximations for Bayesian smoothing in continuous-discrete stochastic dynamic systems. Signal Processing, 2015, 111, 124-136.	3.7	36
40	Robust Inference for State-Space Models with Skewed Measurement Noise. IEEE Signal Processing Letters, 2015, 22, 1898-1902.	3.6	93
41	Statistical sensor fusion of ultra wide band ranging and real time kinematic satellite navigation. , 2015, , .		3
42	Received signal strength models for WLAN and BLE-based indoor positioning in multi-floor buildings. , 2015, , .		41
43	GNSS orbit prediction with enhanced force model. , 2015, , .		5
44	Statistical trilateration with skew-t errors. , 2015, , .		3
45	Evaluating the consistency of estimation. , 2014, , .		9
46	Motion model for positioning with graph-based indoor map. , 2014, , .		7
47	On convergence and accuracy of state-space approximations of squared exponential covariance functions. , 2014, , .		14
48	Semantic labeling of places based on phone usage features using supervised learning. , 2014, , .		5
49	Application of the Hill-Clohessy-Wiltshire equation in GNSS orbit prediction. , 2014, , .		2
50	Bayesian analysis of GUHA hypotheses. Journal of Intelligent Information Systems, 2014, 42, 47-73.	3.9	5
51	UWB Positioning with Generalized Gaussian Mixture Filters. IEEE Transactions on Mobile Computing, 2014, 13, 2406-2414.	5.8	35
52	A method to enforce map constraints in a particle filter's position estimate. , 2014, , .		2
53	SO-I: a surrogate model algorithm for expensive nonlinear integer programming problems including global optimization applications. Journal of Global Optimization, 2014, 59, 865-889.	1.8	44
54	Adaptive mobile tracking in unknown non-line-of-sight conditions with application to digital TV networks. Eurasip Journal on Advances in Signal Processing, 2014, 2014, .	1.7	15

#	Article	IF	CITATIONS
55	SO-MI: A surrogate model algorithm for computationally expensive nonlinear mixed-integer black-box global optimization problems. Computers and Operations Research, 2013, 40, 1383-1400.	4.0	147
56	Calibration of GARCH models using concurrent accelerated random search. Applied Mathematics and Computation, 2013, 221, 522-534.	2.2	0
57	Stock price dynamics and option valuations under volatility feedback effect. Physica A: Statistical Mechanics and Its Applications, 2013, 392, 722-740.	2.6	6
58	Particle filter and smoother for indoor localization. , 2013, , .		62
59	Device self-calibration in location systems using signal strength histograms. Journal of Location Based Services, 2013, 7, 165-181.	1.9	52
60	Bandwidth and storage reduction of radio maps for offline WLAN positioning. , 2013, , .		3
61	Statistical Path Loss Parameter Estimation and Positioning using RSS Measurements. The Journal of Global Positioning Systems, 2013, 12, 13-27.	1.6	6
62	Bayesian fault detection method for linear systems with outliers. , 2012, , .		1
63	Using unlocated fingerprints in generation of WLAN maps for indoor positioning. , 2012, , .		4
64	An empirical solar radiation pressure model for autonomous GNSS orbit prediction. , 2012, , .		9
65	Converting GNSS satellite orbit segments to GPS-compatible format. , 2012, , .		1
66	Recursive outlier-robust filtering and smoothing for nonlinear systems using the multivariate student-t distribution. , 2012, , .		93
67	Robust Kalman filter for positioning with wireless BS coverage areas. , 2012, , .		2
68	Gaussian mixture filter allowing negative weights and its application to positioning using signal strength measurements. , 2012, , .		6
69	Statistical path loss parameter estimation and positioning using RSS measurements in indoor wireless networks. , 2012, , .		32
70	Statistical path loss parameter estimation and positioning using RSS measurements. , 2012, , .		12
71	Outlier-robust estimation of GPS satellite clock offsets. , 2012, , .		7
72	Device signal strength self-calibration using histograms. , 2012, , .		24

#	Article	IF	CITATIONS
73	Autonomous Prediction of GPS and GLONASS Satellite Orbits. Navigation, Journal of the Institute of Navigation, 2012, 59, 119-134.	2.8	28
74	Mobile Tracking in Mixed Line-of-Sight/Non-Line-of-Sight Conditions: Algorithm and Theoretical Lower Bound. Wireless Personal Communications, 2012, 65, 753-771.	2.7	25
75	A monocular camera gyroscope. Gyroscopy and Navigation, 2012, 3, 124-131.	1.3	9
76	Robust estimation of a reception region from location fingerprints. , 2011, , .		5
77	Forecasting the Diffusion of Innovation: A Stochastic Bass Model With Log-Normal and Mean-Reverting Error Process. IEEE Transactions on Engineering Management, 2011, 58, 228-249.	3.5	13
78	Mixture surrogate models based on Dempster-Shafer theory for global optimization problems. Journal of Global Optimization, 2011, 51, 79-104.	1.8	82
79	Rank based fingerprinting algorithm for indoor positioning. , 2011, , .		79
80	Mobile tracking in unknown non-line-of-sight conditions. , 2010, , .		2
81	Indoor positioning using WLAN coverage area estimates. , 2010, , .		28
82	Positioning with coverage area estimates generated from location fingerprints. , 2010, , .		16
83	Bayesian Assaying of GUHA Nuggets. Communications in Computer and Information Science, 2010, , 348-355.	0.5	0
84	Uninterrupted portable car navigation system using GPS, map and inertial sensors data. , 2009, , .		12
85	A comparative survey of WLAN location fingerprinting methods. , 2009, , .		366
86	Fingerprint Kalman Filter in indoor positioning applications. , 2009, , .		26
87	Use of distributed computing in derivative pricing. International Journal of Electronic Finance, 2009, 3, 270.	0.2	11
88	Matrix-based numerical modelling of financial differential equations. International Journal of Mathematical Modelling and Numerical Optimisation, 2009, 1, 88.	0.2	2
89	PNaFF: A modular software platform for testing hybrid position estimation algorithms. , 2008, , .		2

90 A Comparison of Particle Filters for Personal Positioning. , 2008, , 173-178.

1

# ARTICLE IF CITATIONS RECURRENCE QUANTIFICATION ANALYSIS OF ELECTROCHEMICAL NOISE DATA DURING PIT DEVELOPMENT. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2007, 17, 3725-3728. Robust Extended Kalman Filtering in Hybrid Positioning Applications., 2007, , . 92 40 Benchmarking Nonlinear Filters., 2006, , . Distance of Sample Measurement Points to Prototype Catalog Curve. Journal of Physics: Conference 94 0.4 0 Series, 2006, 52, 27-35. Prediction of rotating stall within an impeller of a centrifugal pump based on spectral analysis of 0.4 28 pressure and velocity data. Journal of Physics: Conference Series, 2006, 52, 36-45. Supplement to the paper "Bounds for the extreme eigenvalues of symmetric matrices― ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 2005, 85, 76-76. 96 0 1.6 spectra. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2002, 19, 1946. Nonnegative color spectrum analysis filters from principal component analysis characteristic 1.5 Quasi stage order conditions for SDIRK methods. Applied Numerical Mathematics, 2002, 42, 61-75. 98 2.114 A Two Regime Orifice Flow Formula for Numerical Simulation. Journal of Dynamic Systems, 1.6 24 Measurement and Control, Transactions of the ASME, 1999, 121, 721-724. Variable step size time integration methods for transient eddy current problems. IEEE Transactions on 100 2.1 30 Magnetics, 1998, 34, 3319-3322. An L-stable Rosenbrock method for step-by-step time integration in structural dynamics. Computer 6.6 Methods in Applied Mechanics and Engineering, 1995, 126, 343-354. Bounds for the maximum deflection and curvature of nonuniform beam-columns. International 102 2.7 2 Journal of Solids and Structures, 1993, 30, 1565-1577. Lower Bounds for Critical Buckling Load Using Matrix Norms. Journal of Engineering Mechanics -ASCE, 1993, 119, 1100-1107. Noise-filtering properties of numerical methods for the inverse Abel transform. IEEE Transactions on 104 4.7 5 Instrumentation and Measurement, 1992, 41, 517-522. Inversion of Laplace transforms using polynomial series. International Journal of Systems Science, 5.5 1991, 22, 507-510. Nyquist-type stability test for undamped elastic structures. International Journal of Control, 1990, 51, 106 1.9 0 1309-1318. Comments on "An improved approximation for settling time of second-order linear systems". IEEE 5.7 Transactions on Automatic Control, 1987, 32, 747-748 Deflection Estimates Using the Virtual Work Principle. Transactions of the Canadian Society for 108 0.8 0

**ROBERT PICHÃ**©

Mechanical Engineering, 1984, 8, 133-137.

#	Article	IF	CITATIONS
109	Stability of Followerâ€Force Rods with Weight. Journal of Engineering Mechanics - ASCE, 1984, 110, 367-379.	2.9	12