

# Yaakov Oshman

## List of Publications by Year in descending order

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78  
papers

1,963  
citations

361413

20  
h-index

265206

42  
g-index

79  
all docs

79  
docs citations

79  
times ranked

1286  
citing authors

#	ARTICLE	IF	CITATIONS
1	Optimization of observer trajectories for bearings-only target localization. IEEE Transactions on Aerospace and Electronic Systems, 1999, 35, 892-902.	4.7	278
2	Novel quaternion Kalman filter. IEEE Transactions on Aerospace and Electronic Systems, 2006, 42, 174-190.	4.7	278
3	Averaging Quaternions. Journal of Guidance, Control, and Dynamics, 2007, 30, 1193-1197.	2.8	252
4	Optimal sensor selection strategy for discrete-time state estimators. IEEE Transactions on Aerospace and Electronic Systems, 1994, 30, 307-314.	4.7	75
5	Attitude Estimation from Vector Observations Using a Genetic-Algorithm-Embedded Quaternion Particle Filter. Journal of Guidance, Control, and Dynamics, 2006, 29, 879-891.	2.8	69
6	Efficient Multiple Model Adaptive Estimation in Ballistic Missile Interception Scenarios. Journal of Guidance, Control, and Dynamics, 2002, 25, 667-675.	2.8	68
7	Optimal-REQUEST Algorithm for Attitude Determination. Journal of Guidance, Control, and Dynamics, 2004, 27, 418-425.	2.8	65
8	Integrated Estimation/Guidance Design Approach for Improved Homing Against Randomly Maneuvering Targets. Journal of Guidance, Control, and Dynamics, 2007, 30, 154-161.	2.8	46
9	Eigenfactor solution of the matrix Riccati equation--A continuous square root algorithm. IEEE Transactions on Automatic Control, 1985, 30, 971-978.	5.7	40
10	Differential-game-based guidance law using target orientation observations. IEEE Transactions on Aerospace and Electronic Systems, 2006, 42, 316-326.	4.7	38
11	Spacecraft Angular Rate Estimation from Magnetometer Data Only Using an Analytic Predictor. Journal of Guidance, Control, and Dynamics, 2004, 27, 365-373.	2.8	36
12	Adaptive Particle Filtering for Spacecraft Attitude Estimation from Vector Observations. Journal of Guidance, Control, and Dynamics, 2009, 32, 232-241.	2.8	34
13	Sequential Attitude and Attitude-Rate Estimation Using Integrated-Rate Parameters. Journal of Guidance, Control, and Dynamics, 1999, 22, 385-394.	2.8	29
14	Spacecraft Attitude Rate Estimation from Geomagnetic Field Measurements. Journal of Guidance, Control, and Dynamics, 2003, 26, 244-252.	2.8	29
15	Fast Particle Filtering for Attitude and Angular-Rate Estimation from Vector Observations. Journal of Guidance, Control, and Dynamics, 2009, 32, 70-78.	2.8	27
16	Modal control of piezolaminated anisotropic rectangular plates. I - Modal transducer theory. AIAA Journal, 1996, 34, 1868-1875.	2.6	26
17	Kalman filtering for matrix estimation. IEEE Transactions on Aerospace and Electronic Systems, 2006, 42, 147-159.	4.7	26
18	Direction Cosine Matrix Estimation from Vector Observations using a Matrix Kalman Filter. IEEE Transactions on Aerospace and Electronic Systems, 2010, 46, 61-79.	4.7	25

#	ARTICLE	IF	CITATIONS
19	Stochastic Cooperative Interception Using Information Sharing Based on Engagement Staggering. Journal of Guidance, Control, and Dynamics, 2016, 39, 2127-2141.	2.8	24
20	Active distributed vibration control of anisotropic piezoelectric laminated plates. Journal of Sound and Vibration, 1995, 183, 797-817.	3.9	21
21	Square root filtering via covariance and information eigenfactors. Automatica, 1986, 22, 599-604.	5.0	20
22	Spacecraft Angular Velocity Estimation Using Sequential Observations of a Single Directional Vector. Journal of Spacecraft and Rockets, 2003, 40, 237-247.	1.9	20
23	Decision-Directed Adaptive Estimation and Guidance for an Interception Endgame. Journal of Guidance, Control, and Dynamics, 2006, 29, 970-980.	2.8	18
24	Modal control of piezolaminated anisotropic rectangular plates - II Control theory. AIAA Journal, 1996, 34, 1876-1884.	2.6	17
25	Novel Adaptive Generalized Likelihood Ratio Detector with Application to Maneuvering Target Tracking. Journal of Guidance, Control, and Dynamics, 2006, 29, 465-474.	2.8	17
26	Adaptive Estimation Methodology for Helicopter Blade Structural Damage Detection. Journal of Guidance, Control, and Dynamics, 2002, 25, 1049-1057.	2.8	16
27	Enhanced Air-to-Air Missile Tracking Using Target Orientation Observations. Journal of Guidance, Control, and Dynamics, 2004, 27, 595-606.	2.8	16
28	A Cramér/Rao-type estimation lower bound for systems with measurement faults. IEEE Transactions on Automatic Control, 2005, 50, 1234-1245.	5.7	16
29	Spacecraft attitude/rate estimation using vector-aided GPS observations. IEEE Transactions on Aerospace and Electronic Systems, 1999, 35, 1019-1032.	4.7	15
30	On the need for integrated estimation/guidance design for hit-to-kill accuracy. , 0, , .		15
31	Robust Spacecraft Angular Rate Estimation from Vector Observations Using Interlaced Particle Filtering. Journal of Guidance, Control, and Dynamics, 2007, 30, 1729-1741.	2.8	15
32	Square-root state estimation for second-order large space structures models. Journal of Guidance, Control, and Dynamics, 1989, 12, 698-708.	2.8	14
33	Stochastic Analysis of the Interception of Maneuvering Antisurface Missiles. Journal of Guidance, Control, and Dynamics, 1997, 20, 707-714.	2.8	14
34	A New Estimation Error Lower Bound for Interruption Indicators in Systems With Uncertain Measurements. IEEE Transactions on Information Theory, 2004, 50, 3375-3384.	2.4	14
35	Efficient fault tolerant estimation using the IMM methodology. IEEE Transactions on Aerospace and Electronic Systems, 2007, 43, 492-508.	4.7	14
36	Weissâ€“Weinstein Lower Bounds for Markovian Systems. Part 1: Theory. IEEE Transactions on Signal Processing, 2007, 55, 2016-2030.	5.3	14

#	ARTICLE	IF	CITATIONS
37	Mini-UAV altitude estimation using an inertially stabilized payload. IEEE Transactions on Aerospace and Electronic Systems, 1999, 35, 1191-1203.	4.7	13
38	Quaternion Estimation from Vector Observations using a Matrix Kalman Filter. IEEE Transactions on Aerospace and Electronic Systems, 2012, 48, 3133-3158.	4.7	13
39	Helicopter Health Monitoring Using an Adaptive Estimator. Journal of the American Helicopter Society, 2003, 48, 199-210.	0.8	12
40	Gain-free square root information filtering using the spectral decomposition. Journal of Guidance, Control, and Dynamics, 1989, 12, 681-690.	2.8	11
41	Minimal-Parameter Attitude Matrix Estimation from Vector Observations. Journal of Guidance, Control, and Dynamics, 1998, 21, 595-602.	2.8	11
42	Recursive Weiss-Weinstein lower bounds for discrete-time nonlinear filtering. , 2004, , .		11
43	Robust Navigation Using the Global Positioning System in the Presence of Spoofing. Journal of Guidance, Control, and Dynamics, 2006, 29, 95-104.	2.8	10
44	Weissâ€“Weinstein Lower Bounds for Markovian Systems. Part 2: Applications to Fault-Tolerant Filtering. IEEE Transactions on Signal Processing, 2007, 55, 2031-2042.	5.3	10
45	Third-Order, Minimal-Parameter Solution of the Orthogonal Matrix Differential Equation. Journal of Guidance, Control, and Dynamics, 1997, 20, 516-521.	2.8	9
46	Sequential gyroless attitude and attitude-rate estimation from vector observations. Acta Astronautica, 2000, 46, 449-463.	3.2	8
47	Improving the accuracy of analog encoders via Kalman filtering. Control Engineering Practice, 2006, 14, 337-350.	5.5	8
48	Seeker gyro calibration via model-based fusion of visual and inertial data. , 2007, , .		8
49	LMMSE Filtering in Feedback Systems With White Random Modes: Application to Tracking in Clutter. IEEE Transactions on Automatic Control, 2014, 59, 2549-2554.	5.7	8
50	Selective Modal Transducers for Piezolaminated Anisotropic Shells. Journal of Guidance, Control, and Dynamics, 1999, 22, 455-466.	2.8	7
51	Fault-Tolerant Particle Filtering by Using Interacting Multiple Model-Based Rao-Blackwellization. Journal of Guidance, Control, and Dynamics, 2005, 28, 1171-1177.	2.8	7
52	Maximum a posteriori image registration/motion estimation. Journal of Guidance, Control, and Dynamics, 1994, 17, 1115-1123.	2.8	6
53	A Cramer-Rao type lower bound for the estimation error of systems with measurement faults. , 0, , .		6
54	Maximum likelihood state and parameter estimation via derivatives of the V-Lambda filter. Journal of Guidance, Control, and Dynamics, 1992, 15, 717-726.	2.8	5

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55	Further comments on "Optimal sensor selection strategy for discrete-time estimators" [and reply]. IEEE Transactions on Aerospace and Electronic Systems, 1995, 31, 1159-1167.	4.7	5
56	Selective Modal Control Theory for Piezolaminated Anisotropic Shells. Journal of Guidance, Control, and Dynamics, 2001, 24, 844-852.	2.8	5
57	Optimal filtering in the presence of faulty measurement biases. , 0, , .		5
58	State matrix kalman filter. , 0, , .		5
59	Nonlinear Observability Analysis of Spacecraft Attitude and Angular Rate with Inertia Uncertainty. Journal of the Astronautical Sciences, 2009, 57, 129-148.	1.5	5
60	Asymptotic Behavior of the Estimation Error Covariance of Quaternion Estimators. Journal of Guidance, Control, and Dynamics, 2008, 31, 1665-1676.	2.8	4
61	A new formulation of fault-tolerant estimation problems and some solutions. , 2010, , .		4
62	State estimation in hybrid systems with a bounded number of mode transitions. , 2010, , .		4
63	Fusion of estimation and guidance using sequential monte carlo methods. , 0, , .		3
64	Linear quadratic stochastic control using the singular value decomposition. Journal of Guidance, Control, and Dynamics, 1992, 15, 1045-1047.	2.8	2
65	Maximum likelihood identification and realization of stochastic systems. Journal of Guidance, Control, and Dynamics, 1994, 17, 692-700.	2.8	2
66	Boost-Phase Identification of Theater Ballistic Missiles Using Radar Measurements. Journal of Guidance, Control, and Dynamics, 2004, 27, 197-208.	2.8	2
67	Detection and isolation of Tollmien-Schlichting waves in shear flows using blind source separation. Mechanical Systems and Signal Processing, 2020, 136, 106485.	8.0	2
68	Optimal covariance selection for estimation using graphical models. , 2011, , .		1
69	State and disturbance estimation for a road vehicle via IMM filtering. , 2016, , .		1
70	Statistical calibration via Gaussianization in hot-wire anemometry. Experiments in Fluids, 2017, 58, 1.	2.4	1
71	Blind disturbance separation and identification in a transitional boundary layer using minimal sensing. Journal of Fluid Mechanics, 2021, 927, .	3.4	1
72	Using a multiple-model adaptive estimator in a random evasion missile/aircraft encounter. Journal of Guidance, Control, and Dynamics, 2001, 24, 1176-1186.	2.8	1

#	ARTICLE	IF	CITATIONS
73	Selective modal transducers for anisotropic rectangular plates - Experimental validation. AIAA Journal, 1997, 35, 1621-1629.	2.6	1
74	Optimal output configuration strategies for state estimation in large space structures. , 0, , .		0
75	A new estimation error lower bound for interruption indicators in systems with uncertain measurements. , 0, , .		0
76	Attitude independent estimation of spacecraft angular rate using geomagnetic field observations. , 0, , .		0
77	An information fusion approach to missile guidance. , 2007, , .		0
78	Negative Collision Measurements in Position/Velocity State Estimation. Journal of Guidance, Control, and Dynamics, 2014, 37, 1015-1022.	2.8	0