List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Fast Kalman-Like Optimal Unbiased FIR Filtering With Applications. IEEE Transactions on Signal Processing, 2016, 64, 2284-2297. | 5.3 | 124 |
| 2 | H _{â^ž} Control for Discrete-Time Markov Jump Systems With Uncertain Transition Probabilities. IEEE Transactions on Automatic Control, 2013, 58, 1566-1572. | 5.7 | 104 |
| 3 | Fusion Kalman/UFIR Filter for State Estimation With Uncertain Parameters and Noise Statistics. IEEE Transactions on Industrial Electronics, 2017, 64, 3075-3083. | 7.9 | 83 |
| 4 | Minimum variance unbiased FIR filter for discrete time-variant systems. Automatica, 2015, 53, 355-361. | 5.0 | 75 |
| 5 | Comparing Robustness of the Kalman, <inline-formula> <tex-math notation="LaTeX">\$H_infty\$ </tex-math </inline-formula> , and UFIR Filters. IEEE Transactions on Signal Processing, 2018, 66, 3447-3458. | 5.3 | 65 |
| 6 | Trial-and-error or avoiding a guess? Initialization of the Kalman filter. Automatica, 2020, 121, 109184. | 5.0 | 59 |
| 7 | Fast Computation of Discrete Optimal FIR Estimates in White Gaussian Noise. IEEE Signal Processing Letters, 2015, 22, 718-722. | 3.6 | 53 |
| 8 | Linear Optimal Unbiased Filter for Time-Variant Systems Without Apriori Information on Initial Conditions. IEEE Transactions on Automatic Control, 2017, 62, 882-887. | 5.7 | 47 |
| 9 | Distributed plant-wide process monitoring based on PCA with minimal redundancy maximal relevance. Chemometrics and Intelligent Laboratory Systems, 2017, 169, 53-63. | 3.5 | 46 |
| 10 | Multiple-Model State Estimation Based on Variational Bayesian Inference. IEEE Transactions on Automatic Control, 2019, 64, 1679-1685. | 5.7 | 40 |
| 11 | An Improved Iterative FIR State Estimator and Its Applications. IEEE Transactions on Industrial Informatics, 2020, 16, 1003-1012. | 11.3 | 40 |
| 12 | Fault Detection and Diagnosis of Multiple-Model Systems With Mismodeled Transition Probabilities. IEEE Transactions on Industrial Electronics, 2015, 62, 5063-5071. | 7.9 | 39 |
| 13 | Self-Tuning Unbiased Finite Impulse Response Filtering Algorithm for Processes With Unknown Measurement Noise Covariance. IEEE Transactions on Control Systems Technology, 2021, 29, 1372-1379. | 5.2 | 37 |
| 14 | Probabilistic Monitoring of Correlated Sensors for Nonlinear Processes in State Space. IEEE Transactions on Industrial Electronics, 2020, 67, 2294-2303. | 7.9 | 34 |
| 15 | Online Probabilistic Estimation of Sensor Faulty Signal in Industrial Processes and Its Applications. IEEE Transactions on Industrial Electronics, 2021, 68, 8853-8862. | 7.9 | 34 |
| 16 | Multipass Optimal FIR Filtering for Processes With Unknown Initial States and Temporary Mismatches. IEEE Transactions on Industrial Informatics, 2021, 17, 5360-5368. | 11.3 | 33 |
| 17 | Ultimate iterative UFIR filtering algorithm. Measurement: Journal of the International Measurement Confederation, 2016, 92, 236-242. | 5.0 | 32 |
| 18 | Localization of Indoor Mobile Robot Using Minimum Variance Unbiased FIR Filter. IEEE Transactions on Automation Science and Engineering, 2018, 15, 410-419. | 5.2 | 32 |

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|----|--|------|-----------|
| 19 | Discrete Time \$q\$-Lag Maximum Likelihood FIR Smoothing and Iterative Recursive Algorithm. IEEE Transactions on Signal Processing, 2021, 69, 6342-6354. | 5.3 | 32 |
| 20 | Adaptive-Horizon Iterative UFIR Filtering Algorithm With Applications. IEEE Transactions on Industrial Electronics, 2018, 65, 6393-6402. | 7.9 | 30 |
| 21 | Kalman and UFIR state estimation with coloured measurement noise using backward Euler method. IET Signal Processing, 2020, 14, 64-71. | 1.5 | 30 |
| 22 | Real-Time Optimal State Estimation of Multi-DOF Industrial Systems Using FIR Filtering. IEEE Transactions on Industrial Informatics, 2017, 13, 967-975. | 11.3 | 28 |
| 23 | Unbiased FIR Filtering for Time-Stamped Discretely Delayed and Missing Data. IEEE Transactions on Automatic Control, 2020, 65, 2155-2162. | 5.7 | 27 |
| 24 | Bayesian Inference for State-Space Models With Student- <i>t</i> Mixture Distributions. IEEE Transactions on Cybernetics, 2023, 53, 4435-4445. | 9.5 | 27 |
| 25 | General Unbiased FIR Filter With Applications to GPS-Based Steering of Oscillator Frequency. IEEE Transactions on Control Systems Technology, 2017, 25, 1141-1148. | 5.2 | 26 |
| 26 | Optimal and Unbiased Filtering With Colored Process Noise Using State Differencing. IEEE Signal Processing Letters, 2019, 26, 548-551. | 3.6 | 26 |
| 27 | Probabilistic Monitoring of Sensors in State-Space With Variational Bayesian Inference. IEEE Transactions on Industrial Electronics, 2019, 66, 2154-2163. | 7.9 | 25 |
| 28 | Sensor fault detection and diagnosis in the presence of outliers. Neurocomputing, 2019, 349, 156-163. | 5.9 | 25 |
| 29 | Bayesian State Estimation for Markovian Jump Systems: Employing Recursive Steps and Pseudocodes. IEEE Systems, Man, and Cybernetics Magazine, 2019, 5, 27-36. | 1.4 | 24 |
| 30 | <i>H</i> _{â^žâ€‰} filtering for discreteâ€time Markov jump systems with unknown transition probabilities. International Journal of Adaptive Control and Signal Processing, 2014, 28, 138-148. | 4.1 | 23 |
| 31 | Iterative Residual Generator for Fault Detection With Linear Time-Invariant State–Space Models. IEEE Transactions on Automatic Control, 2017, 62, 5422-5428. | 5.7 | 22 |
| 32 | Bayesian state estimation on finite horizons: The case of linear state–space model. Automatica, 2017, 85, 91-99. | 5.0 | 22 |
| 33 | Detection and Diagnosis of Multiple Faults With Uncertain Modeling Parameters. IEEE Transactions on Control Systems Technology, 2017, 25, 1873-1881. | 5.2 | 21 |
| 34 | A New Unbiased FIR Filter With Improved Robustness Based on Frobenius Norm With Exponential Weight. IEEE Transactions on Circuits and Systems II: Express Briefs, 2018, 65, 521-525. | 3.0 | 21 |
| 35 | Unified Maximum Likelihood Form for Bias Constrained FIR Filters. IEEE Signal Processing Letters, 2016, 23, 1848-1852. | 3.6 | 20 |
| 36 | Robust FIR State Estimation of Dynamic Processes Corrupted by Outliers. IEEE Transactions on Industrial Informatics, 2019, 15, 139-147. | 11.3 | 18 |

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| 37 | Frequency-Efficient Receding Horizon \$H_infty \$ FIR Filtering in Discrete-Time State-Space. IEEE Transactions on Circuits and Systems I: Regular Papers, 2017, 64, 2945-2953. | 5.4 | 16 |
| 38 | Continuous-Time Deadbeat \$H_{2}\$ FIR Filter. IEEE Transactions on Circuits and Systems II: Express Briefs, 2017, 64, 987-991. | 3.0 | 16 |
| 39 | Iterative Maximum Likelihood FIR Estimation of Dynamic Systems With Improved Robustness. IEEE/ASME Transactions on Mechatronics, 2018, 23, 1467-1476. | 5.8 | 16 |
| 40 | Bias-Constrained Optimal Fusion Filtering for Decentralized WSN With Correlated Noise Sources. IEEE Transactions on Signal and Information Processing Over Networks, 2018, 4, 727-735. | 2.8 | 15 |
| 41 | Unbiased, optimal, and inâ€betweens: the tradeâ€off in discrete finite impulse response filtering. IET Signal Processing, 2016, 10, 325-334. | 1.5 | 14 |
| 42 | Identification of timeâ€delay Markov jump autoregressive exogenous systems with expectationâ€maximization algorithm. International Journal of Adaptive Control and Signal Processing, 2017, 31, 1920-1933. | 4.1 | 14 |
| 43 | Online identification of timeâ€delay jump Markov autoregressive exogenous systems with recursive expectationâ€maximization algorithm. International Journal of Adaptive Control and Signal Processing, 2020, 34, 407-426. | 4.1 | 14 |
| 44 | Minimum Weighted Frobenius Norm Discrete-Time FIR Filter With Embedded Unbiasedness. IEEE Transactions on Circuits and Systems II: Express Briefs, 2018, 65, 1284-1288. | 3.0 | 13 |
| 45 | Sensor Fault Estimation in a Probabilistic Framework for Industrial Processes and its Applications. IEEE Transactions on Industrial Informatics, 2022, 18, 387-396. | 11.3 | 13 |
| 46 | On the Iterative Computation of Error Matrix in Unbiased FIR Filtering. IEEE Signal Processing Letters, 2017, 24, 555-558. | 3.6 | 12 |
| 47 | Distributed Student's t filtering algorithm for heavyâ€ŧailed noises. International Journal of Adaptive Control and Signal Processing, 2018, 32, 875-890. | 4.1 | 12 |
| 48 | Frobenius Norm-Based Unbiased Finite Impulse Response Fusion Filtering for Wireless Sensor Networks. IEEE Transactions on Industrial Electronics, 2022, 69, 1867-1876. | 7.9 | 12 |
| 49 | Optimal FIR Filter for Discrete-Time LTV Systems and Fast Iterative Algorithm. IEEE Transactions on Circuits and Systems II: Express Briefs, 2021, 68, 1527-1531. | 3.0 | 11 |
| 50 | Fast Kalman-like optimal FIR filter for time-variant systems with improved robustness. ISA Transactions, 2018, 80, 160-168. | 5.7 | 10 |
| 51 | Robust filter design for asymmetric measurement noise using variational Bayesian inference. IET Control Theory and Applications, 2019, 13, 1656-1664. | 2.1 | 9 |
| 52 | Intelligent State Estimation for Continuous Fermenters Using Variational Bayesian Learning. IEEE Transactions on Industrial Informatics, 2021, 17, 8429-8437. | 11.3 | 9 |
| 53 | - <inline-formula> <tex-math notation="LaTeX">\$l_infty\$ </tex-math> </inline-formula> and <inline-formula> <tex-math notation="LaTeX">\$H_infty\$ </tex-math </inline-formula> Performances of the Continuous-Time Deadbeat <inline-for_iefe and="" briefs<="" circuits="" express="" ii:="" on="" systems="" td="" transactions=""><td>3.0</td><td>8</td></inline-for_iefe> | 3.0 | 8 |
| 54 | 2018, 65, 1798-1802. Fusion Kalman and Weighted UFIR State Estimator With Improved Accuracy. IEEE Transactions on Industrial Electronics, 2020, 67, 10713-10722. | 7.9 | 8 |

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| 55 | Effect of embedded unbiasedness on discrete-time optimal FIR filtering estimates. Eurasip Journal on Advances in Signal Processing, 2015, 2015, . | 1.7 | 7 |
| 56 | On initialization of the Kalman filter. , 2017, , . | | 7 |
| 57 | Feature Extraction of Constrained Dynamic Latent Variables. IEEE Transactions on Industrial Informatics, 2019, 15, 5637-5645. | 11.3 | 7 |
| 58 | State estimation for jump markov nonlinear systems of unknown measurement data covariance. Journal of the Franklin Institute, 2021, 358, 1673-1691. | 3.4 | 7 |
| 59 | Riskâ€sensitive filtering for nonlinear Markov jump systems on the basis of particle approximation. International Journal of Adaptive Control and Signal Processing, 2012, 26, 158-170. | 4.1 | 6 |
| 60 | A Fusion Kalman Filter and UFIR Estimator Using the Influence Function Method. IEEE/CAA Journal of Automatica Sinica, 2022, 9, 709-718. | 13.1 | 6 |
| 61 | Fast biasâ€constrained optimal FIR filtering for timeâ€invariant state space models. International Journal of Adaptive Control and Signal Processing, 2017, 31, 1061-1076. | 4.1 | 4 |
| 62 | Distributed dataâ€driven observer for linear time invariant systems. International Journal of Adaptive Control and Signal Processing, 2020, 34, 503-519. | 4.1 | 4 |
| 63 | Multitask Maximum Likelihood Identification for ARX Model With Multisensor. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-10. | 4.7 | 4 |
| 64 | Recursive Bayesian estimation for Markov jump linear systems with unknown modeâ€dependent state delays. IET Signal Processing, 2013, 7, 911-919. | 1.5 | 3 |
| 65 | A Revisit to Strictly Passive FIR Filtering. IEEE Transactions on Circuits and Systems II: Express Briefs, 2018, 65, 516-520. | 3.0 | 3 |
| 66 | Hankel-Norm Approach to Robust FIR Estimation of Dynamic Systems Under External Disturbances. IEEE/ASME Transactions on Mechatronics, 2018, 23, 1973-1980. | 5.8 | 2 |
| 67 | Joint state estimation for nonlinear stateâ€space model with unknown timeâ€variant noise statistics. International Journal of Adaptive Control and Signal Processing, 2021, 35, 498-512. | 4.1 | 2 |
| 68 | Backward optimal FIR filtering and recursive forms for discrete LTV processes. Signal Processing, 2021, 180, 107857. | 3.7 | 2 |
| 69 | Bayesian estimation for nonlinear stochastic hybrid systems with state dependent transitions. Journal of Systems Engineering and Electronics, 2012, 23, 242-249. | 2.2 | 1 |
| 70 | Further Results on Induced <inline-formula> <tex-math notation="LaTeX">\$I_infty\$ </tex-math> </inline-formula> RH FIR Filtering. IEEE Transactions on Circuits and Systems II: Express Briefs, 2018, 65, 1124-1128. | 3.0 | 1 |
| 71 | Online state and inputs identification for stochastic systems using recursive expectation-maximization algorithm. Chemometrics and Intelligent Laboratory Systems, 2021, 217, 104403. | 3.5 | 1 |
| 72 | Algorithms Design for Tracking Moving Objects with Colored Process Noise. , 2020, , . | | 1 |

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|----|---|-----|-----------|
| 73 | Backward Iterations for OFIR Filtering in Discrete-Time State-Space. , 2021, , . | | 1 |
| 74 | Robust \$q\$-LAG Unbiased FIR Smoother for LTV Systems and Recursive Forms. IEEE Signal Processing Letters, 2022, 29, 379-383. | 3.6 | 0 |
| 75 | Underwater Sludge Detection System Based on Multi-Data Fusion. , 2021, , . | | 0 |
| 76 | Iterative Maximum Likelihood FIR Filter for State-Space Models with Time-Stamped Delayed and Missing Data. Circuits, Systems, and Signal Processing, 0, , . | 2.0 | 0 |
| 77 | Improved state estimator for linear-Gaussian systems subject to initialization errors. Chemometrics and Intelligent Laboratory Systems, 2022, , 104608. | 3.5 | 0 |