Torbjörn Wigren

List of Publications by Year
in descending order

37 papers	**1,153** citations

471371

17 h-index	**34** g-index

377752

37 all docs	**37** docs citations

37 times ranked	**672** citing authors

#	Article	IF	Citations
1	Recursive prediction error identification using the nonlinear wiener model. Automatica, 1993, 29, 1011-1025.	3.0	257
2	Convergence analysis of recursive identification algorithms based on the nonlinear Wiener model. IEEE Transactions on Automatic Control, 1994, 39, 2191-2206.	3.6	146
3	On identification of FIR systems having quantized output data. Automatica, 2011, 47, 1905-1915.	3.0	111
4	Adaptive Enhanced Cell-ID Fingerprinting Localization by Clustering of Precise Position Measurements. IEEE Transactions on Vehicular Technology, 2007, 56, 3199-3209.	3.9	87
5	Adaptive filtering using quantized output measurements. IEEE Transactions on Signal Processing, 1998, 46, 3423-3426.	3.2	58
6	Recursive prediction error identification and scaling of non-linear state space models using a restricted black box parameterization. Automatica, 2006, 42, 159-168.	3.0	44
7	Angle of Arrival Localization in {LTE} Using {MIMO} Pre-Coder Index Feedback. IEEE Communications Letters, 2013, 17, 1584-1587.	2.5	35
8	Optimal recursive state estimation with quantized measurements. IEEE Transactions on Automatic Control, 2000, 45, 762-767.	3.6	32
9	Compensation of the RLS algorithm for output nonlinearities. IEEE Transactions on Automatic Control, 1999, 44, 1913-1918.	3.6	27
10	RTT Positioning Field Performance. IEEE Transactions on Vehicular Technology, 2010, 59, 3656-3661.	3.9	27
11	Approximate gradients, convergence and positive realness in recursive identification of a class of non-linear systems. International Journal of Adaptive Control and Signal Processing, 1995, 9, 325-354.	2.3	25
12	Feedforward model predictive control of a non-linear solar collector plant with varying delays. IET Control Theory and Applications, 2010, 4, 1421-1435.	1.2	24
13	Networked Delay Control for 5G Wireless Machine-Type Communications Using Multiconnectivity. IEEE Transactions on Control Systems Technology, 2019, 27, 1510-1525.	3.2	23
14	Performance analysis of a correlation based single tone frequency estimator. Signal Processing, 1995, 44, 223-231.	2.1	22
15	Asymptotic Cramer-Rao bounds for estimation of the parameters of damped sine waves in noise. IEEE Transactions on Signal Processing, 1991, 39, 1017-1020.	3.2	21
16	Local identifiability and sensitivity analysis of neuromuscular blockade and depth of hypnosis models. Computer Methods and Programs in Biomedicine, 2014, 113, 23-36.	2.6	18
17	Convergence analysis for recursive Hammerstein identification. Automatica, 2016, 71, 179-186.	3.0	17
18	Output error convergence of adaptive filters with compensation for output nonlinearities. IEEE Transactions on Automatic Control, 1998, 43, 975-978.	3.6	16

#	Article	IF	Citations
19	Circle criteria in recursive identification. IEEE Transactions on Automatic Control, 1997, 42, 975-979.	3.6	15
20	Combined $\mathcal{L}_2$ -Stable Feedback and Feedforward Aeration Control in a Wastewater Treatment Plant. IEEE Transactions on Control Systems Technology, 2020, 28, 1017-1024.	3.2	15
21	Accuracy aspects of DOA and angular velocity estimation in sensor array processing. IEEE Signal Processing Letters, 1995, 2, 60-62.	2.1	14
22	Globally Stable Wireless Data Flow Control. IEEE Transactions on Control of Network Systems, 2018, 5, 469-478.	2.4	14
23	Performance of an Adaptive Controller for the Neuromuscular Blockade Based on Inversion of a Wiener Model. Asian Journal of Control, 2015, 17, 1136-1147.	1.9	12
24	Delay Skew Packet Flow Control in Wireless Systems With Dual Connectivity. IEEE Transactions on Vehicular Technology, 2018, 67, 5357-5371.	3.9	12
25	Algorithms for time delay estimation using a low complexity exhaustive search. IEEE Transactions on Automatic Control, 1999, 44, 1031-1037.	3.6	11
26	Recursive Noise Floor Estimation in WCDMA. IEEE Transactions on Vehicular Technology, 2010, 59, 2615-2620.	3.9	11
27	Low Frequency Sensitivity Function Constraints for Nonlinear â€stable Networked Control. Asian Journal of Control, 2016, 18, 1200-1218.	1.9	10
28	ODE analysis and redesign in blind adaptation. IEEE Transactions on Automatic Control, 1997, 42, 1742-1747.	3.6	9
29	Nonlinear techniques for Mode C climb/descent rate estimation in ATC systems. IEEE Transactions on Control Systems Technology, 2001, 9, 163-174.	3.2	9
30	On estimation of errors caused by non-linear undermodelling in system identification. International Journal of Control, 2002, 75, 1100-1113.	1.2	9
31	Time Averaged Power Control of a 4G or a 5G Radio Base Station for RF EMF Compliance. IEEE Access, 2020, 8, 211937-211950.	2.6	8
32	Avoiding ill-convergence of finite dimensional blind adaptation schemes excited by discrete symbol sequences. Signal Processing, 1997, 62, 121-162.	2.1	6
33	A second order ODE is sufficient for modelling of many periodic signals. International Journal of Control, 2005, 78, 982-996.	1.2	6
34	Globally Stable Delay Alignment for Feedback Control Over Wireless Multipoint Connections. IEEE Transactions on Control of Network Systems, 2020, 7, 1633-1642.	2.4	1
35	Coordinated Average EIRP Control of Radio Transmitters for EMF Exclusion Zone Computation. IEEE Wireless Communications Letters, 2021, 10, 2075-2079.	3.2	1
36	Recursively Filtered MIMO Transmission With Quadratic Complexity. IEEE Wireless Communications Letters, 2021, 10, 929-933.	3.2	0

#	Article	IF	Citations
37	Constrained Optimal Average Power Control for Wireless Transmission. , 2022, 6, 1922-1927.		0