Muhammad Tufail

List of Publications by Year
in descending order

61 papers	819 citations	516561 16 h-index	552653 26 g-index
61 all docs	61 docs citations	61 times ranked	694 citing authors

#	Article	IF	Citations
1	Natural radioactivity hazards of building bricks fabricated from saline soil of two districts of Pakistan. Journal of Radiological Protection, 2007, 27, 481-492.	0.6	108
2	Radium equivalent activity in the light of UNSCEAR report. Environmental Monitoring and Assessment, 2012, 184, 5663-5667.	1.3	53
3	Stabilisation of locally Lipschitz nonlinear systems under input saturation and quantisation. IET Control Theory and Applications, 2017, 11, 1459-1466.	1.2	49
4	RADIOACTIVE ROCK PHOSPHATE: THE FEED STOCK OF PHOSPHATE FERTILIZERS USED IN PAKISTAN. Health Physics, 2006, 90, 361-370.	0.3	44
5	Natural environmental radioactivity and estimation of radiation exposure from saline soils. International Journal of Environmental Science and Technology, 2005, 1, 279-285.	1.8	41
6	Leaderless consensus control of nonlinear multi-agent systems under directed topologies subject to input saturation using adaptive event-triggered mechanism. Journal of the Franklin Institute, 2021, 358, 6217-6239.	1.9	37
7	Robust Antiwindup for One-Sided Lipschitz Systems Subject to Input Saturation and Applications. IEEE Transactions on Industrial Electronics, 2018, 65, 9706-9716.	5.2	35
8	A novel anti-windup framework for cascade control systems: An application to underactuated mechanical systems. ISA Transactions, 2014, 53, 802-815.	3.1	27
9	Multiple Lyapunov Functions Approach for Consensus of One-Sided Lipschitz Multi-Agents Over Switching Topologies and Input Saturation. IEEE Transactions on Circuits and Systems II: Express Briefs, 2020, 67, 3267-3271.	2.2	27
10	Measurement of rare earths elements in Kakul phosphorite deposits of Pakistan using instrumental neutron activation analysis. Journal of Radioanalytical and Nuclear Chemistry, 2010, 284, 397-403.	0.7	22
11	Delay-range-dependent synchronization of drive and response systems under input delay and saturation. Chaos, Solitons and Fractals, 2016, 87, 197-207.	2.5	20
12	Stability analysis of nonlinear digital systems under hardware overflow constraint for dealing with finite word-length effects of digital technologies. Signal Processing, 2017, 140, 139-148.	2.1	20
13	Computationally efficient 2D beamspace matrix pencil method for direction of arrival estimation. , 2010, 20, 1526-1534.		19
14	On elimination of overflow oscillations in linear time-varying 2-D digital filters represented by a Roesser model. Signal Processing, 2016, 127, 247-252.	2.1	19
15	Toward Local Stability Analysis of Externally Interfered Digital Filters Under Overflow Nonlinearity. IEEE Transactions on Circuits and Systems II: Express Briefs, 2017, 64, 595-599.	2.2	19
16	Local stability analysis and H_∞ performance for Lipschitz digital filters with saturation nonlinearity and external interferences. Signal Processing, 2018, 153, 101-108.	2.1	19
17	Acoustic feedback neutralization in active noise control systems. IEICE Electronics Express, 2007, 4, 221-226.	0.3	17
18	Consensus of One-Sided Lipschitz Multiagents Under Switching Topologies. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2019, , 1-11.	5.9	17

#	Article	IF	Citations
19	An adaptive gain based approach for event-triggered state estimation with unknown parameters and sensor nonlinearities over wireless sensor networks. ISA Transactions, 2022, 129, 41-54.	3.1	17
20	Online Classification of Multiple Motor Imagery Tasks Using Filter Bank Based Maximum-a-Posteriori Common Spatial Pattern Filters. Irbm, 2020, 41, 141-150.	3.7	16
21	Beamspace matrix pencil method for direction of arrival estimation. IEICE Electronics Express, 2009, 6, 1168-1173.	0.3	15
22	Rare earths elements in phosphorite and granulated single super-phosphate fertilizers of Pakistan, a study using instrumental neutron activation analysis. Journal of Radioanalytical and Nuclear Chemistry, 2011, 289, 521-528.	0.7	14
23	Title is missing!. Journal of Radioanalytical and Nuclear Chemistry, 2003, 256, 289-292.	0.7	12
24	A Novel Approach for Improved Noise Reduction Performance in Feed-Forward Active Noise Control Systems With (Loudspeaker) Saturation Non-Linearity in the Secondary Path. IEEE/ACM Transactions on Audio Speech and Language Processing, 2021, 29, 187-197.	4.0	12
25	A robust approach for online feedback path modeling in single-channel narrow-band active noise control systems using two distinct variable step size methods. Applied Acoustics, 2018, 133, 133-143.	1.7	11
26	A two adaptive filters-based method for reducing effects of acoustic feedback in single-channel feedforward ANC systems. , 2019, 90, 18-27.		11
27	Event-Triggered Distributed State Estimation Under Unknown Parameters and Sensor Saturations Over Wireless Sensor Networks. IEEE Transactions on Circuits and Systems II: Express Briefs, 2022, 69, 1772-1776.	2.2	11
28	A novel word length selection method for a guaranteed $$H_infty $$ H ∞ interference rejection performance and overflow oscillation-free realization of 2-D digital filters. Multidimensional Systems and Signal Processing, 2018, 29, 1331-1350.	1.7	10
29	Elemental analysis of topaz from northern areas of Pakistan and assessment of induced radioactivity level after neutron irradiation for color induction. Journal of Radioanalytical and Nuclear Chemistry, 2011, 287, 821-826.	0.7	9
30	A Novel Method for Guaranteed Overflow Oscillation Elimination in Digital Filters Subject to Quantization. IEEE Transactions on Circuits and Systems II: Express Briefs, 2018, 65, 1279-1283.	2.2	9
31	A new variable step size method for online feedback path modeling in active noise control systems. , 2009, , .		8
32	A novel approach for static anti-windup compensation of one-sided Lipschitz systems under input saturation. Applied Mathematics and Computation, 2020, 380, 125229.	1.4	8
33	Genetic algorithm-based improved DOA estimation using fourth-order cumulants. International Journal of Electronics, 2017, 104, 747-760.	0.9	7
34	Comparative analysis of various Matrix Pencil methods for direction of arrival estimation. , 2010, , .		6
35	Subspace based widely linear frequency estimation in sustainable energy systems. , 2014, , .		5
36	A novel approach for adaptive H∞ leader-following consensus of higher-order locally Lipschitz multi-agent systems. Applied Mathematics and Computation, 2021, 395, 125749.	1.4	5

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37	Overflow oscillationsâ€free realization of discreteâ€time 2D Roesser models under quantization and overflow constraints. Asian Journal of Control, 2022, 24, 1416-1425.	1.9	5
38	Online Acoustic Feedback Path Modeling in Multichannel (1 ï¿½ 2 ï¿½ 2) Active Noise Control Systems. , 2007, , .		3
39	On fault detection in coupled liquid three tank system using subspace aided data driven design. , 2012, , .		3
40	3D modified unitary matrix pencil method with automatic grouping of unknown parameters of far field signals. , 2013, 23, 355-363.		3
41	A novel approach for event-triggered state-estimation of one-sided Lipschitz systems for efficient bandwidth utilization. Computational and Applied Mathematics, 2021, 40, 1.	1.0	3
42	A Fuzzy Logic-Based Gain Scheduling Method for Online Feedback Path Modeling and Neutralization in Active Noise Control Systems. Fluctuation and Noise Letters, 2020, 19, 2050008.	1.0	3
43	A new approach using multiple Lyapunov functions for bipartite consensus of multi-agents over directed switching signed graphs. Nonlinear Analysis: Hybrid Systems, 2022, 44, 101143.	2.1	3
44	Online acoustic feedback path modeling in multi-channel active noise control systems using Variable Step-Size algorithm. , 2009, , .		2
45	Multiple snapshot Beamspace Matrix Pencil method for direction of arrival estimation. , 2010, , .		2
46	Widely linear matrix pencil based frequency estimation in power systems. , 2013, , .		2
47	A Duct Based Experimental Setup for Active Noise Control. , 2014, , .		2
48	Multiple invariance cumulant ESPRIT for DOA estimation. , 2014, , .		2
49	Exponential Stability Analysis of Fixed Point Interfered Nonlinear Digital Systems in the Presence of Quantization and Overflow Constraints. Fluctuation and Noise Letters, 2020, 19, 2050040.	1.0	2
50	A fractional taylor series-Based least mean square algorithm, and its application to power signal estimation. Signal Processing, 2022, 193, 108405.	2.1	2
51	Convergence analysis of dynamic fNIRS-Kalman filter for brain imaging framework. , 2014, , .		1
52	Comparative Analysis of Fourth Order Cumulant Based ESPRIT Algorithms. , 2014, , .		1
53	Adaptive fully-distributed sign-consensus control approach for nonlinear multi-agent systems over a signed graph. Transactions of the Institute of Measurement and Control, 0, , 014233122110317.	1.1	1
54	Blind Separation of Statistically Independent Signals with Mixed Sub-Gaussian and Super-Gaussian Probability Distributions. , 0, , .		0

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55	Blind separation of mixed kurtosis signals using local exponential nonlinearities. , 2005, , .		0
56	Truncated exponential nonlinearities for independent component analysis. , 2005, , .		0
57	A simplified method for online secondary path modeling in multichannel ANC systems. Midwest Symposium on Circuits and Systems, 2007, , .	1.0	0
58	Performance analysis of ESPRIT algorithm on a single broadband signal. , 2009, , .		0
59	A new variable step size method for online secondary path modeling in multichannel (1×2×2) active noise control systems. , 2010, , .		0
60	A Characteristic Function Based Contrast Function for Blind Extraction of Statistically Independent Signals. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2006, E89-A, 2149-2157.	0.2	0
61	An Extension to the Natural Gradient Algorithm for Robust Independent Component Analysis in the Presence of Outliers. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2006, E89-A, 2429-2432.	0.2	0