Dr. Naveed Ishtiaq Chaudhary



| Personal Information | | Address H | louce # DV 111 St #01 |
|---|--|--|-----------------------|
| Date of Birth: AUG 20, 1988 Fathers Name: Ch. Ishtiaq Ahmed Email: naveed.ishtiaq@iiu.edu.pk; 1 | Service Roa Rawalpindi gmail.com Mobile: +9 | Address: House # DK-111, St. # 01 Service Road, Dhoke kashmirian, Rawalpindi, Pakistan Mobile: +923465379751 | |
| Education | | | |
| • PhD Electronic Engineering International Islamic University, | 2018 Islamabad, Pak | Percentage: 87% | CGPA: 3.91/4.0 |
| • MS Electronic Engineering International Islamic University, | 2013 Islamabad, Pak | Percentage: 84% istan | CGPA: 3.90/4.0 |
| • BS Electronic Engineering International Islamic University, | 2010 Islamabad, Pak | Percentage: 82% istan | CGPA: 3.74/4.0 |
| HSSC Pre Engineering Divisional Public School & Colle | 2006 ege Rawalpindi | Percentage: 76% , Pakistan | |
| SSC Science Divisional Public School & Colle | 2004 ege Rawalpindi | Percentage: 79% , Pakistan | |

Experience

| Organization | Designation | From | То |
|--|---------------------|--------------|--------------|
| International Islamic University Islamabad | Assistant Professor | 27 July 2018 | Present |
| International Islamic University Islamabad | Lecturer | 01 Feb 2011 | 26 July 2018 |

Research profile

Google Scholar Profile:

No. of publications: 49 Citations: 800+ **Cumulative Impact Factor (2019 JCR): 180**+ https://scholar.google.com/citations?user=okVMi4UAAAAJ&hl=en

Research Gate Profile:

No. of publications: 49 Citations: 640+ RG Score: 29.11 https://www.researchgate.net/profile/Naveed_Ishtiaq_Chaudhary/research

Publons Profile:

No. of publications: 47 Citations: 670+ https://publons.com/researcher/1379078/naveed-ishtiaq-chaudhary/publications/

Research Interests

Nonlinear system identification; Parameter estimation; Fractional calculus; Optimization heuristics; Machine learning; Computational intelligence; Learning algorithms.

Academic/Professional Membership

- Institute of Electrical and Electronic Engineering (IEEE), Professional member
- Pakistan Engineering Council (Member), Registration No. ELECTRO/12963

Some Journal Publications

- [1] **NI Chaudhary**, M Ahmed, N Dedovic, MAZ Raja, (2020). Momentum Least Mean Square Paradigm for Measurement of Nonlinear CARAR System Parameters. *Journal of Computational and Nonlinear Dynamics*, 15(3), (2020) 031004.
- [2] **NI Chaudhary**, R. Latif, MAZ Raja, JAT Machado, An innovative fractional order LMS algorithm for power signal parameter estimation. *Applied Mathematical Modelling*, (2020).
- [3] **NI Chaudhary**, S Zubair, ZA Khan, MAZ Raja, N Dedovic, Normalized fractional adaptive methods for nonlinear control autoregressive systems, *Applied Mathematical Modelling*, 66 (2019) 457-471.
- [4] NI Chaudhary, S Zubair, MS Aslam, MAZ Raja, JAT Machado, Design of momentum fractional LMS for Hammerstein nonlinear system identification with application to electrically stimulated muscle model, *The European Physical Journal Plus*, 134 (2019), 407
- [5] **NI Chaudhary**, MA Manzar, MAZ Raja, Fractional Volterra LMS algorithm with application to Hammerstein control autoregressive model identification, *Neural Computing and Applications*, 31 (9) (2019) 5227-5240
- [6] A Mehmood, **NI Chaudhary**, A Zameer, MAZ Raja, Novel computing paradigms for parameter estimation in Hammerstein controlled auto regressive auto regressive moving average systems, *Applied Soft Computing*, 80 (2019), 263-284
- [7] A Mehmood, **NI Chaudhary**, A Zameer, MAZ Raja, Backtracking search optimization heuristics for nonlinear Hammerstein controlled auto regressive auto regressive systems, *ISA Transactions*, 91, (2019) 99-113
- [8] ZA Khan, **NI Chaudhary**, S Zubair, Fractional stochastic gradient descent for recommender systems, *Electronic Markets*, 29 (2019), 275-285

- [9] MAZ Raja, MS Aslam, NI Chaudhary, M Nawaz, SM Shah, Design of hybrid natureinspired heuristics with application to active noise control systems, *Neural Computing* and Applications 31 (7), (2019) 2563-2591
- [10] MAZ Raja, R Akhtar, NI Chaudhary, Z Zhiyu, Q Khan, AU Rehman, F Zaman, A new computing paradigm for the optimization of parameters in adaptive beamforming using fractional processing, *The European Physical Journal Plus* 134 (6), (2019) 275
- [11] MAZ Raja, U Ahmed, A Zameer, AK Kiani, NI Chaudhary, Bio-inspired heuristics hybrid with sequential quadratic programming and interior-point methods for reliable treatment of economic load dispatch problem, *Neural Computing and Applications* 31 (1), (2019) 447-475
- [12] WU Khan, Z Ye, F Altaf, NI Chaudhary, MAZ Raja, A novel application of fireworks heuristic paradigms for reliable treatment of nonlinear active noise control, *Applied Acoustics*, 146 (2019) 246-260.
- [13] WU Khan, Z Ye, NI Chaudhary, MAZ Raja, Backtracking search integrated with sequential quadratic programming for nonlinear active noise control systems, *Applied Soft Computing*, 73 (2018) 666-683.
- [14] NI Chaudhary, S Zubair, MAZ Raja, Design of momentum LMS adaptive strategy for parameter estimation of Hammerstein controlled autoregressive systems, *Neural Computing and Applications* 30 (4) (2018) 1133-1143
- [15] NI Chaudhary, M Ahmed, ZA Khan, S Zubair, MAZ Raja, N Dedovic, Design of normalized fractional adaptive algorithms for parameter estimation of control autoregressive autoregressive systems, *Applied Mathematical Modelling* 55 (2018) 698-715
- [16] NI Chaudhary, MAZ Raja, MS Aslam, N Ahmed, Novel generalization of Volterra LMS algorithm to fractional order with application to system identification, *Neural Computing and Applications* 29 (6) (2018) 246-259
- [17] S Zubair, NI Chaudhary, ZA Khan, W Wang, Momentum fractional LMS for power signal parameter estimation, *Signal Processing* 142 (2018) 441-449
- [18] MAZ Raja, AA Shah, A Mehmood, NI Chaudhary, MS Aslam, Bio-inspired computational heuristics for parameter estimation of nonlinear Hammerstein controlled autoregressive system, *Neural Computing and Applications* 29 (12) (2018) 1455-1474
- [19] A Mehmood, MS Aslam, NI Chaudhary, A Zameer, MAZ Raja., Parameter estimation for Hammerstein control autoregressive systems using differential evolution, *Signal*, *Image and Video Processing* 12 (8) (2018) 1603–1610.

- [20] MAZ Raja, MS Aslam, NI Chaudhary, WU Khan, Bio-inspired heuristics hybrid with interior-point method for active noise control systems without identification of secondary path. *Frontiers of Information Technology & Electronic Engineering 19* (2) (2018) 246-259.
- [21] **NI Chaudhary**, S Zubair, MAZ Raja, A new computing approach for power signal modeling using fractional adaptive algorithms. *ISA transactions* 68 (2017) 189-202.
- [22] NI Chaudhary, MS Aslam, MAZ Raja, Modified Volterra LMS algorithm to fractional order for identification of Hammerstein non-linear system, *IET Signal Processing* 11 (8) (2017) 975-985.
- [23] MS Aslam, NI Chaudhary, MAZ Raja, A sliding-window approximation-based fractional adaptive strategy for Hammerstein nonlinear ARMAX systems, *Nonlinear Dynamics* 87 (1) (2017) 519-533.
- [24] MAZ Raja, U Farooq, NI Chaudhary, AM Wazwaz, Stochastic numerical solver for nanofluidic problems containing multi-walled carbon nanotubes, *Applied Soft Computing* 38 (2016) 561-586.
- [25] MAZ Raja, JA Khan, NI Chaudhary, E Shivanian, Reliable numerical treatment of nonlinear singular Flierl–Petviashivili equations for unbounded domain using ANN, GAs, and SQP, *Applied Soft Computing* 38 617-636
- [26] MAZ Raja, MAR Khan, T Mahmood, U. Farooq, NI Chaudhary, Design of bioinspired computing technique for nanofluidics based on nonlinear Jeffery–Hamel flow equations, *Canadian Journal of Physics* 94 (5) (2016) 474-489.
- [27] NI Chaudhary, MAZ Raja, AUR Khan, Design of modified fractional adaptive strategies for Hammerstein nonlinear control autoregressive systems, *Nonlinear Dynamics* 82 (4) (2015) 1811-1830.
- [28] **NI Chaudhary**, MAZ Raja, Identification of Hammerstein nonlinear ARMAX systems using nonlinear adaptive algorithms, *Nonlinear Dynamics* 79 (2) (2015) 1385-1397.
- [29] NI Chaudhary, MAZ Raja, Design of fractional adaptive strategy for input nonlinear Box–Jenkins systems, *Signal Processing* 116 (2015) 141-151
- [30] MAZ Raja, NI Chaudhary, Two-stage fractional least mean square identification algorithm for parameter estimation of CARMA systems, *Signal Processing* 107 (2015) 327-339

References

- Dr. Muhammad Asif Zahoor Raja Professor
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- Dr. Zeshan Aslam Khan Assistant Professor Department of Electrical Engineering International Islamic University, Islamabad, Pakistan Email: Zeeshan.aslam@iiu.edu.pk Mobile: +923335245945