

Adnan Aslam

Associate Professor

School of Electrical Engineering and Computer Science

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About

Dr. Adnan Aslam is working as Associate Professor in the School of Electrical Engineering and Computer Science. Dr. Adnan Aslam has a PhD in Mathematics. Dr. Adnan Aslam has published 28 research articles & conference papers having a citation count of 154, carried out 0 projects and filed 0 intellectual property.

Qualifications

PhD in Mathematics NUST, Islamabad , Pakistan	2009 - 2014
MPhil in Mathematics NUST, Islamabad , Pakistan	2007 - 2009
MSc in Mathematics University of the Punjab , Pakistan	2004 - 2006
BSc in Maths-A, Maths-B,Physics University of the Punjab , Pakistan	2003 - 2005

Experience

Associate Professor School of Electrical Engineering and Computer Science	2021- Present
Assistant Professor School of Electrical Engineering and Computer Science	2020 - 2021
Assistant Professor School of Electrical Engineering and Computer Science	2017 - 2020
Assistant Professor School of Electrical Engineering and Computer Science	2014 - 2017

Awards

2007

Research Articles

A fractional-operator approach for unraveling rabies disease dynamics in animal population <i>Marya Zainab Adnan Aslam Takasar Hussain Muhammad Ozair Ahmed M. Shehata Kottakkaran Sooppy Nisar M. Abdalla Alexandria Engineering Journal</i> , Volume:124, Pages 540-549 Impact Factor: 6.200 Quartile: 1 Citations: 1 DOI: https://doi.org/10.1016/j.aej.2025.03.082	2025
Mathematical study of infectious disease of pines caused by bark beetles <i>Takasar Hussain Muhammad Ozair Adnan Aslam Maham Afaq Muhammad Tanveer Muhammad Awais J. F. Gómez-Aguilar Modeling Earth Systems and Environment</i> , Volume:11, Issue:2, Article Number 149 Impact Factor: 2.700 Quartile: 3 DOI: https://doi.org/10.1007/s40808-025-02305-2	2025
Dynamics of rabies disease model under Atangana–Baleanu fractional derivative <i>Marya Zainab Adnan Aslam Takasar Hussain Muhammad Ozair Alexandria Engineering Journal</i> , Volume 115, Pages 390-400 Impact Factor: 6.200 Quartile: 1	2025

DOI: https://doi.org/10.1016/j.aej.2024.11.099	
Study of COVID-19 cases with real data analysis	2025
<i>Wedad Albalawi Kottakkaran Sooppy Nisar Nadir Omer Adnan Aslam Takasar Hussain Muhammad Ozair Shahid Hussain Nida Hameed Alexandria Engineering Journal</i> , Volume:113, Page:672-680	
Impact Factor: 6.200 Quartile: 1	
DOI: https://doi.org/10.1016/j.aej.2024.11.031	
Mathematical analysis of Lassa fever epidemic with real data	2025
<i>Adnan Aslam Takasar Hussain Muhammad Ozair Arfah Hafeez Wedad Albalawi Mohammed Zakarya Nadir Omer Alexandria Engineering Journal</i> , Volume:112, Page:672-687	
Impact Factor: 6.200 Quartile: 1 Citations: 2	
DOI: https://doi.org/10.1016/j.aej.2024.10.110	
Study of fractional order rabies transmission model via Atangana– Baleanu derivative	2024
<i>Adnan Aslam Sidra Shafiq Marya Zainab Takasar Hussain Muhammad Ozair Salah Boulaaras Scientific Reports</i> , Volume 14, Article Number: 25875	
Impact Factor: 3.800 Quartile: 1 Citations: 2	
DOI: https://doi.org/10.1038/s41598-024-77282-0	
Mathematical modelling approach to cholera transmission with vaccination strategy	2023
<i>Adnan Aslam Wedad Albalawi Kottakkaran Sooppy Nisar Muhammad Ozair Takasar Hussain Muhammad Shoaib H.Y. Zahran Alexandria Engineering Journal</i> , Volume 75, Pages 191-207	
Impact Factor: 6.8 Quartile: 1 Citations: 3	
DOI: https://doi.org/10.1016/j.aej.2023.05.053	
Mathematical study of nematode transmission in pine trees through bark beetles	2022
<i>Takasar Hussain Muhammad Ozair Adnan Aslam Sajid Jameel Maryum Nawaz Abdel-Haleem Abdel-Aty Chaos, Solitons and Fractals</i> , Volume 161, Article Number 112297	
Impact Factor: 9.922 Quartile: 1	
DOI: https://doi.org/10.1016/j.chaos.2022.112297	
Management of pine forests by assessment of insect pests and nematodes	2021
<i>Muhammad Ozair Takasar Hussain Adnan Aslam Rabbisa Anees Muhammad Tanveer J. F. Gomez-Aguilar European Physical Journal Plus</i> , Volume 136, Article Number 916	
Impact Factor: 3.758 Quartile: 2 Citations: 8	
DOI: https://doi.org/10.1140/epjp/s13360-021-01934-7	
Transmission and epidemiological trends of pine wilt disease: Findings from sensitivity to optimality	2021
<i>Adnan Aslam Muhammad Ozair Takasar Hussain Aziz Ullah Awan Fatima Tasneem Nehad Ali Shah Results in Physics</i> , Volume 26, Article Number 104443	
Impact Factor: 4.565 Quartile: 2 Citations: 8	
DOI: https://doi.org/10.1016/j.rinp.2021.104443	
Dynamical aspects of pine wilt disease and control measures	2021
<i>Takasar Hussain Adnan Aslam Muhammad Ozair Fatima Tasneem J.F. Gomez-Aguilar Chaos, Solitons and Fractals</i> , Volume 145, Article Number 110764	
Impact Factor: 9.922 Quartile: 1 Citations: 23	
DOI: https://doi.org/10.1016/j.chaos.2021.110764	
Charged particle dynamics in the surrounding of Schwarzschild anti-de Sitter black hole with topological defect immersed in an external magnetic field	2020
<i>Sidra Shafiq Saqib Hussain Muhammad Ozair Adnan Aslam Takasar Hussain European Physical Journal C</i> , Volume 80, Article number: 744	
Impact Factor: 4.590 Quartile: 2 Citations: 13	
DOI: https://doi.org/10.1140/epjc/s10052-020-8314-y	
Analysis of a mathematical model for the pine wilt disease using a graph theoretic approach	2020
<i>Jhoana Patricia Romero-Leiton Aziz Ullah Awan Attia Sharif Takasar Hussain Muhammad Ozair Adnan Aslam Farhad Ali Applied Sciences</i> , Volume 22, Pages 189-204	
Impact Factor: N/A	
DOI: https://www.emis.de/journals/APPS/v22/A22-ro-ZAH33.pdf	
Bio-inspired Analytical Heuristics to Study pine Wilt Disease Model	2020
<i>Muhammad Ozair Takasar Hussain Aziz Ullah Awan Adnan Aslam Riaz Ahmad Khan Farhad Ali Fatima Tasneem Scientific Reports</i> , Volume10, Issue 1, Article number: 3534	

- Impact Factor:** 4.380 | **Quartile:** 1 | **Citations:** 9
DOI: 10.1038/s41598-020-60088-1
- Dynamics of swine influenza model with optimal control** 2019
Takasar Hussain Muhammad Ozair Kazeem Oare Okosun Muhammad Ishfaq Aziz Ullah Awan Adnan Aslam
Advances in Difference Equations, Volume: 2019, Issue: 1, Article Number: 508
Impact Factor: 2.421 | **Quartile:** 1 | **Citations:** 8
DOI: DOI: 10.1186/s13662-019-2434-4
- Charged particle dynamics in the vicinity of black hole from vector-tensor theory of gravity immersed in an external magnetic field** 2019
Azeem Nazar Saqib Hussain Takasar Hussain Muhammad Ozair Adnan Aslam
Results in Physics, Volume: 14
Impact Factor: 4.019 | **Quartile:** 1 | **Citations:** 3
DOI: <https://doi.org/10.1016/j.rinp.2019.102418>
- Solution of ordinary differential equations and Volterra integral equation of first and second kind with bulge and logarithmic functions using Laplace transform** 2018
Naila Bilqees Adnan Aslam Zahida Perveen Zulfiqar Ahmed
International Journal of Advanced and Applied Sciences, NULL
Impact Factor: 0
DOI: 10.21833/ijaas.2018.09.012
- Algebraic properties of first integrals for systems of second-order ordinary differential equations of maximal symmetry** 2016
K.S. Mahomed E. Momoniat Adnan Aslam
QUAESTIONES MATHEMATICAE, Volume 39, Issue, 6 Page: 715-726
Impact Factor: 0.398 | **Quartile:** 4
DOI: 10.2989/16073606.2015.1134698
- Invariant linearization criteria for a three-dimensional dynamical system of second-order ordinary differential equations and applications** 2016
Adnan Aslam F.M.Mahomed Asghar Qadir
International Journal of Non-Linear Mechanics, Volume 78, Pages 9-16
Impact Factor: 2.074 | **Quartile:** 2
DOI: 10.1016/j.ijnonlinmec.2015.09.016
- Symmetry classification and joint invariants for the scalar linear $(1 + 1)$ elliptic equation** 2015
F.M. Mahomed A.G. Johnpillai Adnan Aslam
Communications in Nonlinear Science and Numerical Simulation, Volume 25, Issue 1-3, Pages 84-93
Impact Factor: 2.834 | **Quartile:** 1 | **Citations:** 2
DOI: 10.1016/j.cnsns.2014.11.022
- Cotton-Type and Joint Invariants for Linear Elliptic Systems** 2013
F. M. Mahomed Adnan Aslam F. M. Mahomed
Scientific World Journal, Volume 2013, Article ID 540705, 6 pages
Impact Factor: 1.219 | **Quartile:** 2 | **Citations:** 2
DOI: 10.1155/2013/540705
- Noether gauge symmetry approach in quintom cosmology** 2013
Davood Momeni Ratbay Myrzakulov Muhammad Raza Adnan Aslam Davood Momeni Ratbay Myrzakulov Muhammad Raza Mubasher Jamil Muneer Ahmad Rashid
Astrophysics and Space Science, Volume 348, Issue 2, Pages 533-540
Impact Factor: 2.401 | **Quartile:** 2 | **Citations:** 17
DOI: 10.1007/s10509-013-1569-0
- Noether gauge symmetry for the Bianchi type I model in $f(T)$ gravity** 2013
Ratbay Myrzakulov Adnan Aslam Ratbay Myrzakulov Mubasher Jamil
Physica Scripta, Volume 88, Issue 2, Article Number 025003
Impact Factor: 1.296 | **Quartile:** 3 | **Citations:** 19
DOI: 10.1088/0031-8949/88/02/025003
- Noether Gauge Symmetry of Modified Teleparallel Gravity Minimally Coupled with a Canonical Scalar Field** 2013
Davood Momeni Ratbay Myrzakulov Adnan Aslam Davood Momeni Ratbay Myrzakulov M Jamil
Canadian Journal of Physics, Volume 91, Issue 1, Pages 93-97

Impact Factor: 0.928 | **Quartile:** 3 | **Citations:** 24
DOI: 10.1139/cjp-2012-0281

Noether Symmetries of the Area-Minimizing Lagrangian

2012

Adnan Aslam Asghar Qadir
Journal of Applied Mathematics, Volume 2012, Article ID 532690, 14 pages
Impact Factor: 0.834 | **Quartile:** 2 | **Citations:** 10
DOI: 10.1155/2012/532690

Conference Proceedings

Invariants for a system of two linear hyperbolic equations by complex methods

2023

Adnan Aslam F. M. Mahomed Asghar Qadir Muhammad Safdar
The 13th AIMS Conference on Dynamical Systems, Differential Equations and Applications, res.country(233,)
Citations: N/A
DOI: <https://aimsconference.org/conferences/2023/abstracts-compressed-2023-05-22-0937.pdf>

Differential Invariants for Two and Three Dimensional Linear Parabolic Equations

2017

Adnan Aslam Asghar Qadir Muhammad Safdar
International Conference on Symmetries, Differential Equations and Applications, res.country(224,)
Citations: N/A
DOI: 10.1007/978-3-030-01376-9_9

Book Chapters

Lie equivalence transformations and differential invariants for a generalized third-order Schrödinger partial differential equation with variable coefficients using real decomposition

2025

Marya Zainab Adnan Aslam Muhammad Safdar
In: *Analytical Methods in Differential Equations*, Pages 14-21
Citations: N/A
DOI: <https://doi.org/10.1515/9783111570518-002>