

Muhammad Munir Butt

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About

Dr. Muhammad Munir Butt is working as Assistant Professor in the School of Interdisciplinary Engineering & Sciences. Dr. Muhammad Munir Butt has a PhD in Mathematics. Dr. Muhammad Munir Butt has published 16 research articles & conference papers having a citation count of 87, carried out 1 projects and filed 0 intellectual property.

Qualifications

PhD in Mathematics Universität Graz , Austria	2008 - 2011
MPhil in Mathematics Government College University Lahore , Pakistan	2003 - 2006
MSc in Mathematics Government College University Lahore , Pakistan	2001 - 2003

Experience

Assistant Professor School of Interdisciplinary Engineering & Sciences	2024- Present
Assistant Professor King Fahd University of Petroleum and Minerals , Saudi Arabia	2019 - 2022
Assistant Professor University of Lahore , Lahore	2012 - 2016
Lecturer Government College University Lahore , Lahore	2004 - 2008

Research Projects

National Projects	
Autonomous Aerial 3D Mapping System Funding Agency: NUST Amount: PKR 1,000,000.00 Status: Approved_inprocess	2024

International Projects

Research Articles

Optimized Integral Super-Twisting Sliding Mode Control for Acute Leukemia Therapy Muhammad Munir Butt Azhar Iqbal Kashif Butt Mathematics , Volume:13, Issue:07, Article Number: 1077, Pages:20 Impact Factor: 2.3 Quartile: 1 DOI: https://doi.org/10.3390/math13071077	2025
Integral sliding mode and Integral supertwisting sliding mode control for ship course-keeping Muhammad Munir Butt Azhar Iqbal Kashif Butt Iftikhar Ahmad IEEE Access , Volume 13, Pages 9006-9014 Impact Factor: 3.400 Quartile: 2 DOI: 10.1109/ACCESS.2025.3528126	2025
A numerical scheme to solve Fokker–Planck control collective-motion problem	2024

<i>Muhammad Munir Butt S. Roy</i> <i>Mathematics and Computers in Simulation</i>, Volume 225, Pages 1056-1071 Impact Factor: 4.400 Quartile: 1 Citations: 1 DOI: https://doi.org/10.1016/j.matcom.2023.10.005	
Numerical solution to 3D bilinear Fokker–Planck control problem <i>Muhammad Munir Butt</i> <i>International Journal of Computer Mathematics</i>, Volume 99, Issue 12, Pages 2466-2481 Impact Factor: 1.800 Quartile: 2 Citations: 2 DOI: https://doi.org/10.1080/00207160.2022.2067987	2022
On a multigrid solver for stationary Navier–Stokes velocity–pressure tracking-type control problems <i>Muhammad Munir Butt</i> <i>Mathematics and Computers in Simulation</i>, Volume 192, Pages 246-264 Impact Factor: 4.6 Quartile: 1 DOI: https://doi.org/10.1016/j.matcom.2021.08.025	2022
Two-level method for a time-independent Fokker–Planck control problem <i>Muhammad Munir Butt</i> <i>International Journal of Computer Mathematics</i>, Volume:98, Issue:8, Page:1542-1560 Impact Factor: 1.750 Quartile: 2 Citations: 3 DOI: https://doi.org/10.1080/00207160.2020.1825696	2021
Multigrid method for optimal control problem constrained by stochastic stokes equations with noise <i>Muhammad Munir Butt</i> <i>Mathematics</i>, Volume 9, Issue 7, Article Number 738 Impact Factor: 2.592 Quartile: 1 Citations: 2 DOI: https://doi.org/10.3390/math9070738	2021
Two-level difference scheme for the two-dimensional Fokker–Planck equation <i>Muhammad Munir Butt</i> <i>Mathematics and Computers in Simulation</i>, Volume:180, Pages:276-288 Impact Factor: 3.601 Quartile: 1 Citations: 7 DOI: https://doi.org/10.1016/j.matcom.2020.09.001	2021
A multigrid solver for Stokes control problems <i>Muhammad Munir Butt</i> <i>International Journal of Computer Mathematics</i>, Volume 94, Issue 12, Pages 2297-2314 Impact Factor: 1.054 Quartile: 2 Citations: 5 DOI: https://doi.org/10.1080/00207160.2017.1283022	2017
A feasible flow-based iterative algorithm for the two-level hierarchical time minimization transportation problem <i>Fanrong Xie Muhammad Munir Butt Zuoan Li</i> <i>Computers and Operations Research</i>, Volume 86, Pages 124-139 Impact Factor: 2.962 Quartile: 1 Citations: 20 DOI: https://doi.org/10.1016/j.cor.2017.05.003	2017
A Full Multigrid Method for Distributed Control Problems Constrained by Stokes Equations <i>Muhammad Munir Butt Y. Yuan</i> <i>Numerical Mathematics</i>, Volume 10, Issue 3, Pages 639-655 Impact Factor: 0.695 Quartile: 3 Citations: 9 DOI: https://doi.org/10.4208/nmtma.2017.m1637	2017
An upper bound on the minimal total cost of the transportation problem with varying demands and supplies <i>Fanrong Xie Muhammad Munir Butt ZuoanLi LinzhiZhu</i> <i>Omega</i>, Volume 68, Pages105-118 Impact Factor: 4.311 Quartile: 1 Citations: 24 DOI: https://doi.org/10.1016/j.omega.2016.06.007	2017
Formulation and multigrid solution of Cauchy-Riemann optimal control problems <i>Muhammad Munir Butt Alfio Borzi</i> <i>Computing and Visualization in Science</i>, Volume 14, Issue 2, Pages 79-90 Impact Factor: 0 Citations: 7	2011

DOI: 10.1007/s00791-011-0161-9

A full multigrid solution of control-constrained CauchyRiemann optimal control problems

2011

Muhammad Munir Butt Alfio Borzi

Journal of Numerical Mathematics, Volume 19, Issue 3, Pages 189-214

Impact Factor: 0.533 | Quartile: 3 | Citations: 2

DOI: https://doi.org/10.1515/jnum.2011.009

Numerical methods for heat equation with variable coefficients

2009

M.M. Butt M.S.A. Taj

International Journal of Computer Mathematics, Volume 86, Issue 9, Pages 1612-1623

Impact Factor: 0.478 | Quartile: 4 | Citations: 5

DOI: 10.1080/00207160801965172

Conference Proceedings

A Multigrid Solver for Navier-Stokes Tracking-Type Control Problems

2024

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NUST Conference on Recent Trends in Mathematical Sciences-IV (RTMS-IV), res.country(177,)

Citations: N/A

DOI: Nil