Faiz Ullah

Associate Professor

College of Electrical & Mechanical Engineering

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About

Dr. Faiz Ullah is working as Associate Professor in the College of Electrical & Mechanical Engineering. Dr. Faiz Ullah has a PhD in Applied Math. Dr. Faiz Ullah has published 43 research articles & conference papers having a citation count of 226, carried out 0 projects and filed 0 intellectual property.

Qualifications

PhD in Applied Math Ocean University of China , China	2009 - 2012
MPhil in Applied Math	2005 - 2007
NUST, Islamabad , Pakistan	
MSc in Applied Math	2002 - 2004
Quaid-i-Azam University , Pakistan	
BSc in Preengineering	1997 - 1999
University of Peshawar , Pakistan	
F.Sc in Preengineering	1997 - 1999
BISE, Peshawar , Pakistan	
Matric (SSC) in Science	1995 - 1997
BISE, Peshawar , Pakistan	
Experience	
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Associate Professor	2019- Present
<u> </u>	2019- Present
Associate Professor	2019- Present 2017 - 2019
Associate Professor College of Electrical & Mechanical Engineering	
Associate Professor College of Electrical & Mechanical Engineering Assistant Professor	
Associate Professor College of Electrical & Mechanical Engineering Assistant Professor College of Electrical & Mechanical Engineering	2017 - 2019
Associate Professor College of Electrical & Mechanical Engineering Assistant Professor College of Electrical & Mechanical Engineering Assistant Professor	2017 - 2019
Associate Professor College of Electrical & Mechanical Engineering Assistant Professor College of Electrical & Mechanical Engineering Assistant Professor College of Electrical & Mechanical Engineering	2017 - 2019 2013 - 2017
Associate Professor College of Electrical & Mechanical Engineering Assistant Professor College of Electrical & Mechanical Engineering Assistant Professor College of Electrical & Mechanical Engineering Assistant Professor	2017 - 2019 2013 - 2017
Associate Professor College of Electrical & Mechanical Engineering Assistant Professor College of Electrical & Mechanical Engineering Assistant Professor College of Electrical & Mechanical Engineering Assistant Professor College of Electrical & Mechanical Engineering College of Electrical & Mechanical Engineering	2017 - 2019 2013 - 2017 2012 - 2013
Associate Professor College of Electrical & Mechanical Engineering Assistant Professor College of Electrical & Mechanical Engineering Assistant Professor College of Electrical & Mechanical Engineering Assistant Professor College of Electrical & Mechanical Engineering Lecturer	2017 - 2019 2013 - 2017 2012 - 2013
Associate Professor College of Electrical & Mechanical Engineering Assistant Professor College of Electrical & Mechanical Engineering Assistant Professor College of Electrical & Mechanical Engineering Assistant Professor College of Electrical & Mechanical Engineering Lecturer College of Electrical & Mechanical Engineering	2017 - 2019 2013 - 2017 2012 - 2013 2007 - 2012

Research Articles

Fractional stochastic functional differential equations with non-Lipschitz condition

Rahman Ullah Maryam A Alghafli Nabil Mlaiki Muhammad Farooq Faiz Ullah

AIMS Mathematics, Volume 10(3), Pages 7127-7143

Impact Factor: 1.800 | Quartile: 1 | Citations: 2

DOI: 10.3934/math.2025325

On the existence-uniqueness and exponential estimate for solutions to stochastic functional differential equations driven by G-Lévy process

Faiz Ullah Rahman Ullah Ihteram Ali Muhammad Farooq M. A. Rana Fuad A. Awwad Advances in Continuous and Discrete Models, Volume 2025, Article Number 4

2025

2025

DOI: https://doi.org/10.1186/s13662-024-03856-x	
Trajectory optimization and obstacle avoidance of autonomous robot using Robust and Efficient	2024
Rapidly Exploring Random Tree	
Naeem UI Islam Kaynat Gul Faiz Ullah Syed Sajid Ullah Ikram Syed PloS One , Vol: 19(10), Article Number: e0311179, Pages: 24	
Impact Factor: 2.9 Quartile: 1 Citations: 3	
DOI: https://doi.org/10.1371/ journal.pone.0311179	
The Convergence and Boundedness of Solutions to SFDEs with the G-Framework	2024
Rahman Ullah Faiz Ullah Quanxin Zhu	
Mathematics , 12(2), 279	
Impact Factor: 2.4 Quartile: 1 DOI: https://www.preprints.org/manuscript/202308.1519/v1	
A Theoretical Investigation of the SARS-CoV-2 Model via Fractional Order Epidemiological Model	2023
Tahir Khan Rahman Ullah Thabet Abdeljawad Manar A. Alqudah Faiz Ullah	
Computer Modelling in Engineering & Sciences, Volume 135(2), Pages 1295-1313	
Impact Factor: 2.027 Quartile: 2 Citations: 3 DOI: 10.32604/cmes.2022.022177	
The Carathéodory approximation scheme for stochastic differential equations with G-Lévy process	2023
Faiz Ullah Naeem Ul Islam Rahman Ullah	
Mathematical Methods in the Applied Sciences, Pages 1-11	
Impact Factor: 3.007 Quartile: 1 Citations: 4	
DOI: https://doi.org/10.1002/mma.9308	
A Novel Row Index Mathematical Procedure for the Mitigation of PV Output Power Losses during	2023
Partial Shading Conditions	
Muhammad Zeeshan Naeem UI Islam Faiz Ullah Ihsan Ullah Khalil Jaebyung Park	
Symmetry, Volume 15(3), Article Number 768	
Impact Factor: 2.940 Quartile: 2 Citations: 4 DOI: https://doi.org/10.3390/sym15030768	
The dynamics of novel corona virus disease via stochastic epidemiological model with vaccination	2023
Rahman Ullah Qasem Al Mdallal Tahir Khan Roman Ullah Basem Al Alwan Faiz Ullah Quanxin Zhu	
Scientific Reports , Vol:13, Article number: 3805	
Impact Factor: 4.996 Quartile: 2 Citations: 11 DOI: 10.1038/s41598-023-30647-3	
A Mesh-Free Collocation Method Based on RBFs for the Numerical Solution of Hunter–Saxton and	2022
Gardner Equations	
Rahman Ullah Ihteram Ali Sadaf Shaheen Tahir Khan Faiz Ullah Hamid Rahman	
Mathematical Problems in Engineering, Volume 2022, Article ID 2152565, 11 pages	
Impact Factor: 0 Citations: 2	
DOI: https://doi.org/10.1155/2022/2152565	
On the existence and mean square stability of neutral stochastic functional differential equations	2022
driven by G-Lévy process	
Faiz Ullah Rahman Ullah Quanxin Zhu Mathematical Methods in the Applied Sciences, Pages 1.12	
Mathematical Methods in the Applied Sciences, Pages 1-12	
Impact Factor: 2.321 Quartile: 1 Citations: 4 DOI: https://doi.org/10.1002/mma.8121	
The existence–uniqueness and exponential estimate of solutions for stochastic functional differential	2020
equations driven by G-Brownian motion	
Faiz Ullah Quanxin Zhu Rahman Ullah Quanxin Zhu Rahman Ullah Mathematical Methods in the Applied Sciences, Pages 1-12	
Impact Factor: 2.321 Quartile: 1 Citations: 14	
DOI: https://doi.org/10.1002/mma.6867	
A Note on the Approximate Solutions for Stochastic Differential Equations Driven by G-Brownian	2020
Motion	_020
R. Ullah Faiz Ullah Jihen Majdoubi I. Tlili I. Khan Ghaus ur Rahman	
Journal of Computational Analysis and Applications, Volume 28(5), Pages 798-807	

Impact Factor: -	
DOI: http://www.eudoxuspress.com/images/JOCAAA-VOL-28-2020-ISSUE-5.pdf#page=34	
On boundedness and convergence of solutions for neutral stochastic functional differential equations	2019
driven by G-Brownian motion	
Faiz Ullah	
Advances in Difference Equations, Article number: 289, Page 1-16	
Impact Factor: 2.421 Quartile: 1 Citations: 8	
DOI: DOI: 10.1186/s13662-019-2218-x	
On stochastic pantograph differential equations in the G-framework	2019
Faiz Ullah	
Journal of Computational Analysis and Applications, Volume 26, Issue 5, Pages 819-831	
Impact Factor: 0	
DOI: http://www.eudoxuspress.com/images/JOCAAA-VOL-26-2019-ISSUE-5.pdf	
Estimates for the difference between approximate and exact solutions to stochastic differential	2019
equations in the G-framework	
Faiz Ullah Ilyas Khan Mukhtar M. Salah Ziyad Ali Alhussain	
Journal of Taibah University for Science, Volume: 13 Issue: 1 Pages: 20-26	
Impact Factor: 1.863 Quartile: 2 Citations: 3	
DOI: 10.1080/16583655.2018.1519884	
The p-moment exponential estimates for neutral stochastic functional differential equations in the G-	2019
framework	
Faiz Ullah A.A. Memom M.A. Rana Muhammad Hanif	
Journal of Computational Analysis and Applications, Volume 26, Issue 1, Pages 81-90	
Impact Factor: N/A	
DOI: http://www.eudoxuspress.com/images/JOCAAA-VOL-26-2019-ISSUE-1.pdf	
Qualitative behavior of a second-order fuzzy difference equation	2018
Ghaus ur Rahman Qamar Din Faiz Ullah Faiz Muhammad Khan	
Journal of Intelligent & Fuzzy Systems, Volume: 34 Issue: 1 Pages: 745-753	
Impact Factor: 1.637 Quartile: 3 Citations: 15	
DOI: 10.3233/JIFS-17922	
Existence and stability of solutions to non-linear neutral stochastic functional differential equations in	2017
the framework of G-Brownian motion	
Faiz Ullah M Bux MA Rana Ghaus ur Rahman	
Advances in Difference Equations, Volume 2017, Article Number: 350	
Impact Factor: 1.066 Quartile: 1 Citations: 19	
DOI: 10.1186/s13662-017-1400-2	
On existence and approximate solutions for stochastic differential equations in the framework of G-	2017
Brownian motion	
Faiz Ullah Rahman Ullah	
European Physical Journal Plus, Volume: 132 Issue: 10 Article Number: 435	
Impact Factor: 2.24 Quartile: 2 Citations: 19 DOI: 10.1140/epjp/i2017-11700-9	
On Existence and Comparison Results for Solutions to Stochastic Functional Differential Equations in the G-Framework	2017
Faiz Ullah Matloob-Ur-Rehman Muhammad Shahzad M. Ikhlag Chohan	
Journal of Computational Analysis & Applications, Volume: 23 Issue: 4 Pages: 693-702	
Impact Factor: N/A	
DOI: http://www.eudoxuspress.com/images/JOCAAA-2017-VOL-23-ISSUE-4.pdf	
On the Universe People and Value Distribution of Mayoneymbia Mannings	2017
On the Uniqueness Results and Value Distribution of Meromorphic Mappings Faiz Ullah Xiao-Min Li Rahman Ullah Hong-Xun Yi Riaz Ahmad Khan	2017
Mathematics , Volume: 5, Issue: 3, Article Number: 42	
Impact Factor: N/A Citations: 1	
DOI: 10.3390/math5030042	
A Note on with Mannaut Cationates for Chaphastic Constituted Differential Constitute Con	0017
A Note on pth Moment Estimates for Stochastic Functional Differential Equations in the Framework of G-Brownian Motion	2017

Impact Factor: -

Faiz Ullah				
Iranian Journal of Science and Technic	ology, Transaction	s A: Science, Vol	lume 41, Issue 4,	Pages 1131-1138

Impact Factor: 0.757 | Quartile: 3 | Citations: 16

DOI: 10.1007/s40995-016-0067-y

Existence and uniqueness of solutions to SFDEs driven by G-Brownian motion with non-Lipschitz conditions

2017

Faiz Ullah

Computational analysis and applications, Volume 23, Issue 2, Pages 344-354

Impact Factor: N/A

DOI: http://www.eudoxuspress.com/images/JOCAAA-VOL-23-2017-ISSUE-II.pdf

On Periodicity and Uniqueness of Meromorphic Functions

2017

Rahman Ullah Xiao-Min Li Faiz Ullah Rahman Ullah Xiao-Min Li

Journal of Computational and Theoretical Nanoscience, Volume 14, Number 2, Pages 910-917

Impact Factor: 0 | Citations: 1

DOI: https://doi.org/10.1166/jctn.2017.6378

2016

A Note on Stochastic Functional Differential Equations Driven by G-Brownian Motion with

Discontinuous Drift Coefficients

Faiz Ullah Aamir Mukhtar M. A. Rana

Journal of Computational Analysis & Applications, Volume: 21 Issue: 5 Pages: 910-919

Impact Factor: 0.609 | Quartile: 4

DOI: 27750

2016

On the pth moment estimates of solutions to stochastic functional differential equations in the

G-framework

Faiz Ullah

SpringerPlus, Volume: 5, Article Number: 872
Impact Factor: 1.130 | Quartile: 2 | Citations: 14

DOI: 10.1186/s40064-016-2388-x
Slow manifolds in chemical kinetics

2016

Faiz Ullah Muhammad Shahzad Ibrar ul Haq Faisal Sultan Abdul Wahab Ghaus Ur Rahman

Journal of the Chemical Society of Pakistan, Volume: 38 Issue: 5 Pages: 828-835

Impact Factor: 0.327 | Quartile: 4

DOI: JCSPD

2016

2016

A Note on the Existence Results for Stochastic Functional Differential Equations Driven by G-Brownian

Motion

Faiz Ullah Farkhanda Fawad Hussain

Journal of Computational and Theoretical Nanoscience, Vol. 13, Pages 1–5

Impact Factor: N/A

DOI: 10.1166/jctn.2016.5965 1

Existence Results and Moment Estimates for NSFDEs Driven by G-Brownian Motion

Faiz Ullah

Journal of Computational and Theoretical Nanoscience, Vol. 13, Pages 1–8

Impact Factor: N/A | Citations: 10 DOI: 10.1166/jctn.2016.5336

Some Characterizations of Intra-regular Abel-Grassmann Groupoids 2014

Madad Khan Saima Anis Faiz Ullah

Research Journal of Applied Sciences, Engineering and Technology, Volume 7, Issue 9, Pages 1848-1855

Impact Factor: 0

DOI: 10.19026/rjaset.7.472

Existence of Solutions for G-SFDES with Cauchy-Maruyama Approximation Scheme

Faiz Ullah

Abstract and Applied Analysis, Article Number: 809431

Impact Factor: N/A | Citations: 16 DOI: 10.1155/2014/809431

Upper and Lower Solutions Method for G-BSDEs in the Reverse Order

2013

2014

Faiz Ullah Shahzad Amin Sheikh Yasir Ali Rahmat Ullah

Life Science Journal, Volume 10, Issue 2, Pages 2731-2739 Impact Factor: N/A POL 10 7537/mars/si100013 381	
DOI: 10.7537/marslsj100213.381	
On the Existence of Solutions for Stochastic Differential Equations under G-Brownian Motion Faiz Ullah Waseem Asghar Khan Muhammad Arif Riaz Ahmad Khan Life Science Journal, Vol. 10, No 5s, Pages 255-260 Impact Factor: N/A	2013
DOI: http://www.lifesciencesite.com/	
Existence of Solutions for Stochastic Differential Equations under G-Brownian Motion with	2012
Discontinuous Coefficients	_0
Faiz Ullah	
Zeitschrift Fur Naturforschung Section A-A Journal of Physical Sciences, Volume: 67, Issue: 12, Pages: 692-698	
Impact Factor: 1.363 Quartile: 2 Citations: 19 DOI: 10.5560/ZNA.2012-0092	
A Note on the Carath´eodory Approximation Scheme for Stochastic Differential Equations under G- Brownian Motion	2012
Faiz Ullah	
Zeitschrift Fur Naturforschung Section A-A Journal of Physical Sciences, Vol 67a, Pages 699 – 70	
Impact Factor: 1.363 Quartile: 2 Citations: 20	
DOI: 10.5560/ZNA.2012-0079	
A Note on the Existence of Solutions for Backward Stochastic Differential Equations under G-Brownian	2012
Motion	
Faiz Ullah Daxiong Piao Walth Aprilad Caineana Jayanah Valuma 10 Jayan 10	
World Applied Sciences Journal, Volume 16, Issue 12	
Impact Factor: 0 DOI: -	
	00.10
Backward stochastic differential equations under G-Brownian motion with discontinuous drift coefficients	2012
Faiz Ullah Rahman Ullah	
International Journal of Current Research and Review, Volume 04, Issue 12, Pages 78-85	
Impact Factor: 0	
DOI: https://ijcrr.com/uploads/1752_pdf.pdf	
Semiprime (P,PΦqk)-fuzzy Quasi-ideals in Ordered Semigroups	2012
Asghar Khan Nor Haniza Sarmin Faiz Muhammad Khan Faiz Ullah	
World Applied Sciences Journal, Volume 16, Issue 12	
Impact Factor: 0	
DOI: -	
Trig based time domain constellation shaping technique for peak to average power ratio reduction in OFDM systems	2012
Faiz Ullah Hina Shabbir Shahzad Amin Sheikh	
Life Science Journal, Volume 9, Issue No 4, Pages 4465-4471 Impact Factor: 0.165 Quartile: 4	
DOI: http://www.lifesciencesite.com/	
Existence of solutions for G-SDEs with upper and lower solutions in the reverse order	2012
Faiz Ullah Daxiong Piao	2012
International Journal of the Physical Sciences, Vol. 7 Issue no 3, Pages. 432 - 439	
Impact Factor: 0 Citations: 16	
DOI : 10.1155/2014/809431	
Some Sufficient Conditions for Spirallike Functions with Argument Properties	2012
Faiz Ullah Muhammad Arif Mohsan Raza Saeed Islam Javed Iqba	
Life Science Journal, Vol. 9(4), Pages 3770-3773	
Impact Factor: 0.165 Quartile: 4	
DOI: http://www.lifesciencesite.com. 559	
On the Existence and Uniqueness of Solutions for Stochastic Differential Equations under G-Brownian	2012

Motion in a Generalized Space

Faiz Ullah Rahmanullah Daxiong Piao Asghar Khan World Applied Sciences Journal, Volume 19, Issue 12, Pages 1746-1751 Impact Factor: 0 DOI: 10.5829/idosi.wasj.2012.19.12.2731 Existence and Approximation of Solutions of Boundary Value Problems on Time Scales 2009 Rahmat Ali Khan Faiz Ullah Muhammad Rafique Advances in Dynamical Systems and Applications, Volume 4, Number 2, Pages 197-209 Impact Factor: 0 **Editorial Activities Bulletin of the Malaysian Mathematical Sciences Society** 2023 Reviewed Papers for Journals Impact Factor: 1.193 **Journal of Inequalities and Applications** 2023 Reviewed Papers for Journals Impact Factor: 2.021 2020 Reviewed Papers for Journals Impact Factor: 2.421 2020 Reviewed Papers for Journals

2020

Impact Factor: 1.27

Reviewed Papers for Journals