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Publication

Journal Papers

2025## Bifurcation Analysis, Chaotic Behavior, Sensitivity Analysis, Stability Analysis, and Exploring Exact Traveling Wave Solutions of M-Fractional Nonlinear Model Applied Physics Publication: Mathematical Methods in the Applied Sciences Author List: Mahtab Uddin, Md. Mamunur Roshid, Md. Ahsan Ullah, Ashek Ahmed, Golam Mostafa

Simulation of lump, interaction of lump and kink, anti-kink wave, and solitary wave propagation of M-fractional Clannish Random WalkerTMs Parabolic model with two analytic techniques

Applied Physics Publication: Journal of the Korean Physical Society Author List: Mahtab Uddin, Mohammad Safi Ullah, Ashek Ahmed, Md. Mamunur Roshid, Harun-Or-Roshid, Hadi Rezazadeh 2024## Accurate prediction of Bangla text article categorization by utilizing novel Bangla stemmer Artificial Intelligence Publication: International Journal of Automation and Smart Technology Author List: Mahtab Uddin, Shafayat Bin Shabbir Mugdha, Zahid Hossain Khan, Ashek Ahmed

Modulation Instability and Dynamical Analysis of New Abundant Closed-Form Solutions of the Modified Kortewegâ€”de Vriesâ€”Zakharovâ€”Kuznetsov Model with Truncated M-Fractional Derivative

Applied Physics Publication: Journal of Applied Mathematics Author List: Ashek Ahmed, Mahtab Uddin, Md. Shafiqul Islam, Md. Mamunur Roshid 2023## Covid-19TMs Economic and Healthcare Correlations to Leading Affected Countries: A Statistical Assessment Publication: Texila International Journal of Public Health Author List: Mahtab Uddin, Ashek Ahmed

A Statistical Synopsis of COVID-19 Components and Descriptive Analysis of Their Socio-Economic and Healthcare Aspects in Bangladesh Perspective

Publication: Journal of Environmental and Public Health Author List: Mahtab Uddin, Shafayat Bin Shabbir Mugdha, Kazi Shawpnil, Ashek Ahmed

Conference Papers

2024## Optimal Control Problem and Its Application in COVID-19 Transmission Dynamics Conference: 3rd International Conference on Advanced Engineering, Technology and Applications Author List: Yamin Hossain, Ashek Ahmed, Md. Aminul Islam, Yamin Hossain, Md. Aminul Islam, Ashek Ahmed, Mahtab Uddin, Shaikh Afnan Birahim

YOLOv8 image processing for evaluation of stability algorithms based on neural networks: a sports use case

Conference: Lecture notes in networks and systems Author List: Md. Habibur Rahman, Amirul Islam, Asif Ahammad Miazee, Abdullah Ibnah Hasan, Mahtab Uddin, Ashek Ahmed, Yamin Hossain 2024## Optimal Control Problem and Its Application in COVID-19 Transmission Dynamics Conference: 3rd International Conference on Advanced Engineering, Technology and Applications Author List: Yamin Hossain, Ashek Ahmed, Md. Aminul Islam, Yamin Hossain, Md. Aminul Islam, Ashek Ahmed, Mahtab Uddin, Shaikh Afnan Birahim

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