Curriculum Vitae

Personal Information	
Name	Dr. Abhay Singh
Date of Birth	20/01/1982
Nationality	Indian
Contact	Phone: 9452141093 Email: abhayus72@gmail.com Address: Department of Mathematics C. M. Science College, Darbhanga
Current Position	**Assistant Professor (Senior Scale)**
Education	
Ph.D. [Mathematics]	University of Allahabad, 2009, Thesis: "Some Problems on Finsler Geometry"
M.Sc.[Mathematics]	University of Allahabad, 2003
B.Sc.[Mathematics]	University of Allahabad, 2001
Research Interests	Differential Geometry, Finsler Geometry, Mathematical Modelling
Teaching Experience	1. Guru Ghasidas Vishwavidyalaya, Bilaspur (C.G.) from August 01, 2012 to December 01, 2017. 2. Lalit Narayan Mithila University, Darbhanga from December 04, 2017 to till date
Research Publications/Patents	
Abhay Singh & Jay Prakash Pathak, Integration of Machine learning with geometric models for predictive analysis of worm propagation	International Journal of Applied Engineering and Technology, ISSN-2633-1828, Vol.-5, N0.-2, June 2023, pp-321-322.
Abhay Singh & Jay Prakash Pathak, Geometrical modeling of worm propagation in complex networks	International Journal on recent and innovation trends in computing and communication, ISSN-2321-8169, Vol.-10, Issue-11, Nov. 2022, pp- 206-208.
Abhay Singh & Chandan Kumar Gandhi, Simulation and validation of an epidemic model for Wireless Sensor Networks	International Journal of Applied Engineering and Technology, ISSN-2633-1828, Vol.-5, No. S4(July-Aug 2023) pp-120-126.
Abhay Singh & Chandan Kumar Gandhi, Proposed Epidemic model for performance evaluation in Wireless Sensor Networks	International Journal on recent and innovation trends in computing and communication, ISSN-2321-8169, Vol.-10, Issue-10, Sep. 2022, pp- 187-191
Abhay Singh & Rajan Kumar, Topological impact analysis on Wireless Sensor Networks performance	International Journal of Applied Engineering and Technology, ISSN-2633-1828, Vol.-5, N0.-S3(May-June 2023), pp-59-63

Abhay Singh & Rajan Kumar, A Novel Mathematical model for energy-efficient Wireless Sensor Networks	International Journal on recent and innovation trends in computing and communication, ISSN-2321-8169, Vol.-10, Issue-10,Sept. 2022, pp- 192-195.
Abhay Singh & Amritesh Chandra Thakur, Geometrical Modeling of worm propogation in Cyber physical systems	International Journal of Applied Engineering and Technology, ISSN-2633-1828, Vol.-5, N0.-S3(May-June 2023), pp-52-58
Abhay Singh & Amritesh Chandra Thakur, Hybrid geometrical and statistical models for worm propagation in Wireless Sensor Networks	International Journal on recent and innovation trends in computing and communication, ISSN-2321-8169, Vol.-10, Issue-11, Nov. 2022, pp- 197-205.
Abhay Singh, Conformal motion in a four dimensional Finsler Space	Turkish Journal of Computer and Mathematics Education (TURCOMAT), Vol.-11 (No,-3), 2020 Page- 2142-2171 (**e-ISSN** 1309-4653)
Papers Presented in Seminars/Conferences/Invited Lectures	
Motion and Conformal Motion in a Four Dimensional Finsler Space	UGC National Seminar on Contribution of Ancient Indian Mathematicians & its uses in Present age organized by Govt. Dr. B. S. B. A. College, Dongargaon (C. G.) held on 22-23 January, 2016
On Semi Symmetric Projective Connection	National Seminar on Value and Importance of Mathematical Physics (NSVIMP 2015) organized by Govt. Rajeev Lochan College, Rajim Gariaband (C.G.) held on 5th December, 2015
On C-Conformal Change	International Conference on Recent Advances in Mathematical Sciences and Applications (ICRAMSA-2013) organized by Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal held on 24-26 December, 2013
Motion & Conformal Motion in a four Dimensional Finsler Space	International Conference on Mathematical Modeling and Numerical Simulationorganized by Babasaheb Bhimrao Ambedkar University, Lucknow(U.P.) held on 01-03 July 2013.
On Stretch Curvature of Special Finsler Spaces	8th Conference of the International Academy of Physical Sciences (CONIAPS-VIII,2005) organized by CCS University Meerut, NICE Society Institutions Meerut and IAPS Allahabad, India held on 29-31, December, 2005