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## **Educations**

PhD Degree in Differential Geometry and Mathematical Physics (Group Analysis of Differential Equations).

Iran University of Science and Technology

Thesis: Contact Geometry and Symmetry Analysis of Differential Equations

Msc Degree in Differential Geometry

Iran University of Science and Technology

Thesis: The General Theory of Differential Invariants

Bsc Degree in Pure Mathematics

Shahid Beheshti University (Iran)

## **Journal's Publications**

1. Mehdi Nadjafikhah and Seyed Reza Hejazi, Differential Invariants of  $SL(2)$  and  $SL(3)$ -Action on  $\mathbb{R}^2$ , *Mathematical Sciences*, Vol. 1, No. 3 (2007) 75-84.

2. Mehdi Nadjafikhah and Seyed Reza Hejazi, First Integrals of a Special System of ODES, *International Journal of Engineering*, Vol, 21, No. 4, December 2008, 375-383.

3. Mehdi Nadjafikhah and Seyed Reza Hejazi, Lie Symmetries and Solutions of KdV Equation, *International Mathematical Forum*, Vol. 4, 2009, No. 4, 165-176.
4. Mehdi Nadjafikhah and Seyed Reza Hejazi, Symmetry Analysis of The Cylindrical Laplace Equation, *Balkan Journal of Geometry and Its Applications*, Vol. 14, No. 2, 2009, 63-74.
5. Mehdi Nadjafikhah and Seyed Reza Hejazi, Symmetry Analysis of Telegraph Equation, *Asian- European Journal of Mathematics*, Vol. 4, No. 1, 2011, 117-126.
6. Seyed Reza Hejazi, Travelling Wave Solutions and Conservation Laws of Fisher-Kolmogorov Equation, *General Mathematic Notes*, Vol. 18, No. 2, October 2013, 16-25.
7. Seyed Reza Hejazi, Classification of Lie Subalgebras up to an Inner Automorphism, *Journal of Algebraic Systems*, Vol. 1, No. 2, 2013, 117-133.
8. Elham Dastranj and Seyed Reza Hejazi, A New Random to the Lebesgue Integral, *International Journal of Applied Mathematics*, Vol. 26, No. 6, 2013, 695-699.
9. Seyed Reza Hejazi, Lie Group Analysis, Hamiltonian Equations and Conservation Laws of Born-Infeld Equation, *Asian European Journal of Mathematics*, 07, 1450040 (2014) [19 pages] DOI: 10.1142/S1793557114500405.
10. Elham Lashkarian, Elaheh Saberi and S. Reza Hejazi, *Symmetry Reduction and Exact Solutions for a Class on nonlinear PDEs*, *Asian-European Journal of Mathematics*, Vol. 9, No. 3 (2016) 1650061 (11 pages). DOI: 10.1142/S1793557116500613.
11. S. Reza Hejazi and Sousan Abbaspour, *Classification of Kerr-Newman Geodesics*, *General Mathematics Notes*, Vol. 33, No. 2, (2016), 1-16.
12. Elham Lashkarian and S. Reza Hejazi, *Group Analysis of the Fractional Generalized Diffusion Equation*, *Physica A: Statistical Mechanics and Its Applications*, Vol. 479, (2017), 572-579.
13. Saeede Rashidi and S. Reza Hejazi, *Symmetry Properties, Similarity Reduction and Exact Solutions of Fractional Bossinesq Equation*, *International Journal of Geometric Methods in Modern Physics*, Vol. 14, No. 6, (2017), 1750083 (15 pages).
14. Elham Lashkarian and S. Reza Hejazi, *Polynomial and Non-Polynomial Solutions Set for Wave Equation Using Lie point Symmetries*, *Computational Methods for Differential Equations*, Vol. 4, No. 4, (2016), 298-308.
15. Elham Dastranj and S. Reza Hejazi, *New Solutions for Fokker-Plank Equation of Special Stochastic Process with Lie Point Symmetries*, *Computational Methods for Differential Equations*, Vol. 5, No. 1, (2017), 30-42.
16. S. Reza Hejazi, Azadeh Naderifard and Saeede Rashidi, *Conservation laws and similarity reduction of the Zoomeron Equation*, *Vestnik KRAUNC. Fiz.-mat. nauki*, Vol. 14, No. 3, (2016), 7-13.

17. Mehdi Nadjafikhah and S. Reza Hejazi, *Symmetry classification of Newtonian incompressible fluid's equations flow in turbulent boundary layers*, *Vestnik KRAUNC. Fiz.-mat. nauki.*, Vol.18, No. 2, (2017), 41-52.
18. Elaheh Saberi, S. Reza Hejazi and Elham Dastranj, *A new method for option pricing via time-fractional PDE*, *Asian-European Journal of Mathematics*, Vol. 11, No. 5 (2018) 1850074 (15 pages), World Scientific Publishing Company, DOI: 10.1142/S1793557118500742.
19. S. Reza Hejazi, *Lie point symmetries, Hamiltonian equations and conservation laws of the geodesics on a Schwarzschild black hole* Vol ,Kragujevac Journal of Mathematics ,. 42(3) ,2018 ,453-475.
20. Saeede Rashidi and S. Reza Hejazi, *Analysing Lie Symmetry and Constructing Conservation Laws for Time-Fractional Beny-Lin Equation*, *International Journal of Geometric Methods in Modern Physics*, Vol. 14, No. 12 (2017) 1750170 (25 pages), World Scientific Publishing Company, DOI: 10.1142/S0219887817501705.
21. S. Reza Hejazi, *Reduction of Differential Equations by Lie Algebra of Symmetries*, *Caspian Journal of Mathematical Sciences*, Vol. 6 (1), 2017, 9-30.
22. Saeede Rashidi , S. Reza Hejazi and Elham Dastranj, *Approximate symmetry analysis of nonlinear Rayleigh-wave equation*, *International Journal of Geometric Methods in Modern Physics*, Online ready, (2018), DOI: 10.1142/S021988781850055X.
23. Elham Lashkarian and S. Reza Hejazi, *Group analysis of the time fractional generalized diffusion Equation*, *Physica A: Statistical Mechanics and Its Applications*, Vol. 479, (2017), 572-579.
23. Elaheh Saberi and S. Reza Hejazi, *Lie symmetry analysis, conservation laws and exact solutions of the time-fractional generalized Hirota–Satsuma coupled KdV system* , *Physica A: Statistical Mechanics and Its Applications*, Vol. 492, (2018), 296-307.
24. Elham Lashkarian, S. Reza Hejazi and Elham Dastranj, *Conservation laws of  $(3+\alpha)$ -dimensional time-fractional diffusion equation*, *Computers & Mathematics with Applications*, (2018), DOI: 10.1016/j.camwa.2017.10.001, (in press).
25. Azadeh Naderifard and S. Reza Hejazi, *Symmetry Properties, Conservation Laws and Exact Solutions of Time-Fractional Irrigation Equation*, *Waves in Random and Complex Media*, (2018), DOI: 10.1080/17455030.2017.1420943, (in press).
26. Elham Lashkarian and S. Reza Hejazi, *Exact solution of the time fractional non-linear Schrodinger equation with two different methods*, *Mathematical Methods in the Applied Sciences*, (2018), DOI: 10.1002/mma.4770.
27. Elham Lashkarian and S. Reza Hejazi, *Exact solutions of a linear fractional partial differential equation via characteristics method*, *Computational Methods for Differential Equations*, Vol. 6 (1), 2018, 12-18.

