

Publications

(in chronological order)

M.S. Thesis

Divergence Theorems in Semi-Riemannian Geometry, Middle East Technical University, Turkey, 1994.

(Thesis Advisor: Professor Demir N. Kupeli)

Ph.D. Thesis

Doubly Warped Products, University of Missouri at Columbia, U.S.A., 2000.

(Thesis Advisor: Professor John K. Beem)

Research Articles

1. *Divergence Theorems in Semi-Riemannian Geometry*, Acta Applicandae Mathematicae, **40** (2), 173-178, (1995). (*Science Citation Index*.)
2. *Multiply Warped Products*, Journal of Geometry and Physics, **34** (3-4), 287-301, (2000). (*Science Citation Index*.)
3. *A Curvature Condition for a Doubly Twisted Product to be a Warped Product*, (with Manuel Fernández-López, Eduardo García-Río and Demir N. Kupeli), Manuscripta Mathematica, **106** (2), 213-217, (2001). (*Science Citation Index*.)
4. *Doubly Warped Products*, Differential Geometry and Its Applications, **15** (3), 253-263, (2001). (*Expanded Science Citation Index*.)
5. *Geodesic Structure of Standard Static Space-times* (with Dean E. Allison), Journal of Geometry and Physics, **46** (2), 193-200, (2003). (*Science Citation Index*.)
6. *Characterizing Specific Riemannian Manifolds by Differential Equations*, (with Fazilet Erkekoğlu, Eduardo García-Río and Demir N. Kupeli), Acta Applicandae Mathematicae, **76** (2), 195-219, (2003). (*Science Citation Index*.)

7. *On a Differential Equation Characterizing Euclidean Spheres*, (with Eduardo García-Río and Demir N. Kupeli), *Journal of Differential Equations*, **194** (2), 287-299, (2003). (*Science Citation Index*.)
8. *Special Standard Static Space-times*, (with Fernando Dobarro), *Nonlinear Analysis: Theory, Methods & Applications*, **59** (5), 759-770, (2004). (*Science Citation Index*.)
9. *Curvature of Multiply Warped Products*, (with Fernando Dobarro), *Journal of Geometry and Physics*, **55** (1), 75-106, (2005). (*Science Citation Index*.)
10. *Some Results Related to the Laplacian on Vector Fields*, (with Fazilet Erkekoğlu and Demir N. Kupeli), *Publicationes Mathematicae Debrecen*, **69** (1-2), 137-154, (2006). (*Expanded Science Citation Index*.)
11. *Erratum to the paper: "Some Results Related to the Laplacian on Vector Fields"*, (with Fazilet Erkekoğlu and Demir N. Kupeli), *Publicationes Mathematicae Debrecen*, **70** (1-2), 249, (2007). (*Expanded Science Citation Index*.)
12. *About Curvature, Conformal Metrics and Warped Products*, (with Fernando Dobarro), *Journal of Physics A. Mathematical and General*, **40** (46), 13907-13930, (2007). (*Science Citation Index*.)
13. *Curvature in Special Base Conformal Warped Products*, (with Fernando Dobarro), *Acta Applicandae Mathematicae*, **104** (1), 1-46, (2008). (*Science Citation Index*.)
14. *Hessian Tensor and Standard Static Space-times*, (with Fernando Dobarro), *Advances in Lorentzian Geometry*, Shaker Publishing, M. Plaue and M. Scherfner (Editors), 37-50, (2008).
15. *Implications of Energy Conditions on Standard Static Space-times*, (with Fernando Dobarro), *Nonlinear Analysis: Theory, Methods & Applications*, **71**(11), 5476-5490, (2009). (*Science Citation Index*.)
16. *Non-Rotating Killing Vector Fields on Standard Static Space-Times*, (with Fernando Dobarro), *New Developments in Lorentzian Geometry*, *Studies in Advanced Mathematics*, American Mathematical Society and International Press, M. Shing-Tung Yau (Editor), 47-60, (2011).

17. *Characterizing Killing Vector Fields of Standard Static Space-times*, (with Fernando Dobarro), *Journal of Geometry and Physics*, **62**(5), 1070-1087, (2012). (*Science Citation Index.*)
18. *Index Form and Warped Products*, (with Fernando Dobarro), to be submitted, (2013). (*Science Citation Index.*)