More on Legendre Curves in 3-Dimensional Normal Almost Paracontact Manifolds

Morteza Faghfouri¹, Pouneh Changizi²

 ¹ University of Tabriz, Tabriz, Iran E-mail: Faghfouri@tabrizu.ac.ir
² University of Tabriz, Tabriz, Iran E-mail: changizi92@ms.tabrizu.ac.ir

Abstract: The present paper is devoted to study the curvature and torsion of Frenet Legendre curves in 3-dimensional normal almost paracontact metric manifolds. Moreover, in this class of manifolds, conditions for Legendre curves having parallel mean curvature vector, having proper mean curvature vector and being harmonic are discussed.

Keywords: first, quadratic residue codes

2010 Mathematics Subject Classification: 94B05, 94B15

References

- D.E. Blair, Riemannian Geometry of Contact and Symplectic Manifolds. Progress in Mathematics Vol. 203, Birkhäuser, Boston, 2002.
- [2] C. Ožguř, M. M.Tripathi, On Legendre curves in α- Sasakian manifolds. Bull. Malays. Math. Sci. Soc. 2 (2008), no. 1, 91–-96.
- J. Welyczko, On Legendre curves in 3-dimensional normal almost contact metric manifolds. Soochow J. Math. 23 (2007), no. 4, 929–937.
- [4] J. Welyczko, On Legendre curves in 3-dimensional normal almost paracontact metric manifolds. *Results Math.* 54 (2009), no. 3-4, 377–-387.
- [5] S. Zamkovoy, Canonical connections on paracontact manifolds. Ann. Glob. Anal. Geom 36 (2008), no. 1, 37–-60; doi:10.1016/j.camwa.2011.12.064.