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1. Dombrowski P. On the geometry of the tangent bundle/P. Dombrowski// J. Reine Angew. Math. - 1962. - . 210. -P. 73 -- 88.
2. Boeckx E., L.Vanhecke Harmonic and minimal vector fields on tangent and unit tangent bundles, // Differential Geom. Appl. -2000. -V. 13. -P. 77 -- 93.
3. Boeckx E., L.Vanhecke. Harmonic and minimal vector fields on tangent and unit tangent bundles, // Differential Geom. Appl. -2000. -V. 13. -P. 77 -- 93.
4. E.Boeckx, L.Vanhecke. Unit tangent sphere bundles with constant scalar curvature/ // Czechoslovak Math. J. - 2001. -V. 51 . -P. 523 -- 544.
5. E.Boeckx, L.Vanhecke. Harmonic and minimal radial vector fields// Acta Math. Hungar. -2001. -V. 90 . -P. 317 -- 331.
6. O.Gil-Medrano, E.Llinares-Fuster. Minimal unit vector fields // Tôhoku Math. J.- 2002. -V 54. -P. 71 -- 84.
7. J.C.González-Dávila, L.Vanhecke. Examples of minimal unit vector fields // Ann Glob. Anal. Geom. - 2000. -V. 18. -P. 385 -- 404.

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1. www-library.univer.kharkov.ua
2. <http://library.kpi.kharkov.ua>