Title: Conformal vector fields on submanifolds of a Euclidean space

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In this paper, we investigate $n$-dimensional immersed compact submanifold $M$ of a Euclidean space $\mathbb{E}^{n+p}$, with the immersion $\psi : M \to \mathbb{E}^{n+p}$, where the tangential component $\psi^T$ of $\psi$ is a conformal vector field. A characterization of $n$-sphere in the Euclidean space $\mathbb{E}^{n+p}$ is obtained. Also conditions under which $\psi^T$ is a conformal vector field in the general case and those in the special case where the submanifold has flat normal connection and $p = 2$ are obtained as well.

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