Abstract

In this thesis we study the harmonicity of smooth maps between Riemannian manifolds endowed with some special geometrical structures (Sasakian, Kenmotsu, Kahler, f-structures, generalized Sasakian). The most of maps are generalizations of holomorphic maps, namely it intertwines the geometrical structures. We also obtain some results on spectral theory and stability of harmonic maps. We give conditions for a harmonic map to be a harmonic morphism. For most of the results we give some nice applications, for instance in the theory of immersions.