

Theory of Einstein gravity seems to be in a good accord with the current observations and experimental data. Nonetheless, it has some theoretical shortcomings and does not bear a resolution to the dark energy and matter problems. With these motivations theories of modified gravity, which are described by generally invariant actions, have been under study from the early days of GR. In this talk I intend to give an overview on the theories of modified gravity and some of their recent developments, mainly focusing on the possible resolutions they may offer for some of the theoretical issues in GR.