Abstract
Technology transfer, defined as the movement of scientific inventions from an enterprise to the market place, is often a difficult and frustrating process. Stakeholders in this area of study are usually at different levels of understanding due to many factors involved and speak different languages. There are number of problems associated with technology transfer processes in constrained resource settings such as lack of researchers in specific domains, motivation, bureaucratic climate, inability to make effective public investments, funding and inappropriate infrastructure, culture among many others. This research explores the above problems and others discussed by varies researchers in technology transfer and particularly those in Technology-Organization-Environment (TOE) framework using Data analytics and System Dynamics modeling approaches. Data analytics will facilitate in developing a more promising and data rich System Dynamics model. The study will shed light on technical and social factors that lead to formulation of policies which enable accelerated technology transfers in constrained resource settings.