

Railroad Highway Crossing Safety Modeling

Railroad crossing crashes continue to be safety concern. In recent years the number of railroad crossing related crashes have been rising in spite technological improvements in controlling such type of collisions. There is an average of 400 deaths resulting from railroad crossing collision in US every year. This study funded by FRA, evaluates factors affecting railroad crossing with focus on frequency of such crashes as well as injury severities, state of Tennessee as a case study. Study develops Safety Performance Functions (SPFs) which are models and algorithms that can be able to evaluate and predict frequency and possible severities of railroad crossing crashes.