



Finite State Machine (FSM) model of the traffic lights system. The Emergency state is omitted to simplify the model. The states $S_{\text{GreenP3S2}}$ and S_{GreenP3} correspond to one state S_{GreenP3} , states $S_{\text{GreenG1S2}}$ and S_{GreenG1} correspond to one state S_{GreenG1} , and states S_{Green3S2} and S_{Green3} correspond to one state S_{Green3} (they have been split because of the no-memory restrictions imposed by the FSM model)