**Abstract**

The number of vehicles on roads is increasing at an alarming rate and leading to traffic jams and accidents. Today’s traffic signalling method allocates fixed time for each lane regardless of the distribution of car density on the different roads of the intersection. This implies that congested roads get same time as roads with little or no cars. This is very inefficient.

A better system is to give more passage time for congested roads than roads with little or no traffic. With this kind of a system, time allocation will be more equitable and congested streets will be given more attention. This will relieve the traffic more effectively than today’s fixed time based traffic signalling system.