

車流細胞自動機制程序與參數分析

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摘要

Traffic simulation is an important topic of planning, managing and controlling traffic volume on the road systems. Analyses and simulations are employed to discuss modeling and parameter setting of traffic cellular automata studies in this paper. The applications and restriction of traffic cellular automata are discussed. The setting of passenger car equivalent of mixed traffic for multiple sizes vehicles is compared by simulation and suggestion is proposed. The mean field theory for traffic cellular automata is also analyzed. Finally, the rule of multilane is analyzed.

關鍵字：traffic flow simulation, cellular automata, design of procedure, analysis of parameters