

201. A JUDGEMENT SUPPORT TOOL FOR THE REPULSE RATE CONTROL OF AERODROME DEPARTURES

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Airport surface congestion results in significant increases in taxi times and fuel burn at major airports. In this paper, we propose to develop a dynamic pushback rate control algorithm. That algorithm should not increase the complexity of the system. So, the degree of dynamism of the algorithm should be flexible. Also the interface for obtaining inputs for algorithm and outputs should be designed. The inputs are Runway configuration, number of arriving aircraft, number of aircrafts taxiing and Weather conditions. The output will be in the form of classical color coded card format. The output display should be effective and should reduce the job of the Gate controller by providing special features like reserving time slots for a flights pushback, Gate clearance and pushback time switching inside the current time interval. The communication between two displays should be automated.

Key words: Taxiing, Push back, Android.

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