

Application of Queueing Theory to Airport Related Problems

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Abstract

Air traffic, worldwide, keeps growing strongly, creating critical capacity situations and traffic congestion. Large delays are suffered by airlines, passengers and airport authorities alike. When a rough estimate is needed, the results of queueing theory can be used to analyse airport runway systems, but when airports are too congested or a more realistic description of the system behaviour is necessary, Careful analytical planning is needed in advance of facilities and systems design, as the results of congestion could be both serious and expensive to travellers, airlines, and airports.

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