Perancangan model gate assignment untuk mendapatkan gate assignment order yang optimal = Designing gate assignment model to find the optimum gate assignment order

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Abstrak

Pertumbuhan industri penerbangan di Indonesia telah mendorong peningkatan terkait Gate Assignment Problem di Bandara yang sangat berpengaruh terhadap kepuasan penumpang di Bandara Soekarno Hatta. Pada penelitian ini dibuat Model Optimasi Stokastik Gate Assignment Problem dengan fungsi tujuan minimalisasi jumlah Ungated Flights di Terminal 2 Bandara Soekarno Hatta. Model ini dibangun menggunakan pendekatan Simulated Annealing dengan output berupa Gate Assignment Order pesawat di Terminal 2 Bandara Soekarno Hatta. Dari model tersebut dapat dilihat bahwa terjadi penurunan jumlah Ungated Flights, yang menandakan terjadinya perbaikan dalam sistem Gate Assignments di Bandara. Kedepannya, diperlukan pengembangan penelitian meliputi penambahan fungsi tujuan lain seperti minimalisasi jumlah penumpang pada Ungated Flights serta pembuatan model berbasis real time.
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The growth of the aviation industry in Indonesia has enhance the increase of Airport Gate Assignment Problem which mostly affect on passenger satisfaction in Soekarno Hatta International Airport. This research constructed Gate Assignment Problem Stochastic Optimization Model with the objective is to minimize the number of Ungated Flights. This model was constructed using Simulated Annealing, which the output is the aircraft Gate Assignment Order at Terminal 2 Soekarno Hatta International Airport. The decreasing of the number of Ungated Flights has occurred, which indicates an improvement of the system. This research may be developed in the future by adding another objective function such as minimizing the number of ungated flights passengers and constructing real time based model.