Making Art Work

Great art looks good no matter where you’re looking, but for art with perspective doesn’t a special point where your view of the scene will match that of the artist. How or also with geometry to maintain it or also with geometry to maintain it. We or also with geometry to maintain it or also with geometry to maintain it. We

Trimming Taxiing Time

It’s hard to choose which part of air travel is the most fun—body scans, removing your shoes, fighting for the internet, middle seats—but waiting on the runway is a worthy endeavor. Controllers are already using the GPS tracks of planes, and, regardless of the type of plane, even small changes in runway, lines can lead to long delays. Mathematical models that rely on probability and dynamic programming estimate travel time to the runway and wait time on the remote holding positions to see the effects of the different options open to them have on flights’ departure times. In tests at different airports the models have demonstrated the ability to shorten runway wait times, which reduces congestion and saves tens of feet.

The models are very versatile—always predicting the number of aircraft in runway queues to multiple runways and coping with complexity (they involve many variables, such as weather conditions and runway configuration), the models also are very useful for networks of airports. Models can get real-time updates of actual events on the ground within 15 minutes. The models aren’t yet in use everywhere, but they may be soon because with so many airports that are expected to be becoming too congested in the future, analysts say trimming departures in a good way to improve airports and reduce delays.


Trimming Taxiing Time

7 ways math is making a difference

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