

# Using R for predicting air traffic

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## Abstract

Air traffic had an accentuated increase in the last decade, mainly in the last recent years. The air traffic controllers have to promote an organize flow airplanes; supply useful information and suggestions to promote the security of the flights; prevent collisions between airplanes also prevent collisions between airplanes and obstacles in the ground. With the aim of helping air traffic controllers we intend to get air traffic forecasts, in order to plan and to take decisions anticipated. Therefore, we use R and his packages to help us achieve air traffic forecasts. We obtain forecasts and confidence intervals monthly, for one year, using time series theory and then using the Bootstrap methodology.

**Author Keywords:** Time series; Forecasting methods; *Bootstrap*; Model-based resampling; Block resampling