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Optimization of airport operations to improve passenger intermodality

Geoffrey Scozzaro

Supervisors:

Eric Féron

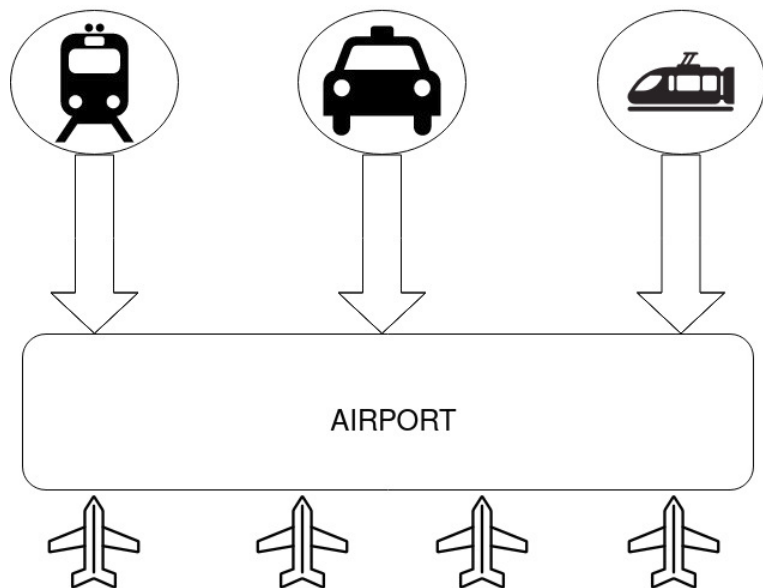
*King Abdullah
University of Science
and Technology*

Catherine Mancel

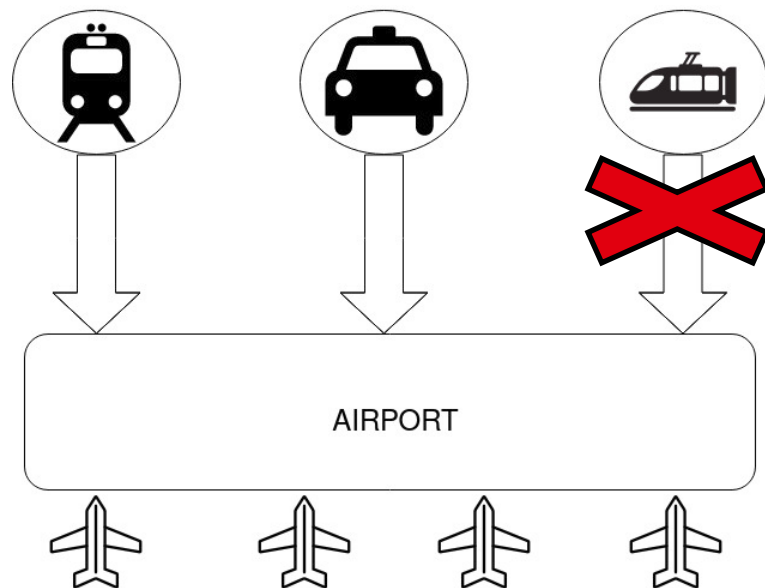
*Ecole Nationale de
l'Aviation Civile*

SINA/OPTIM

Context

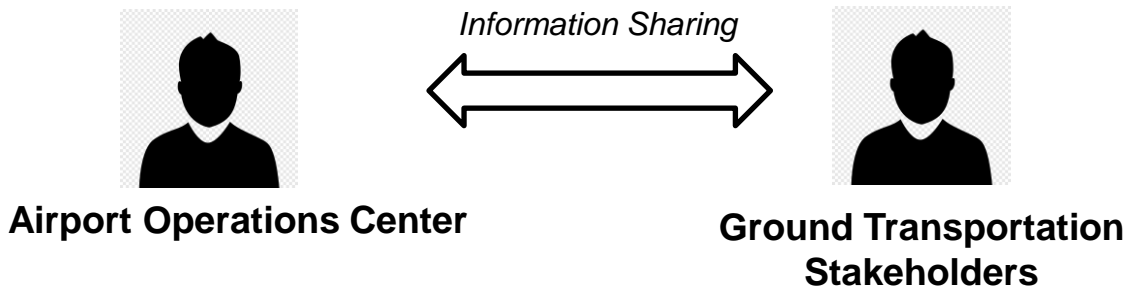


Context

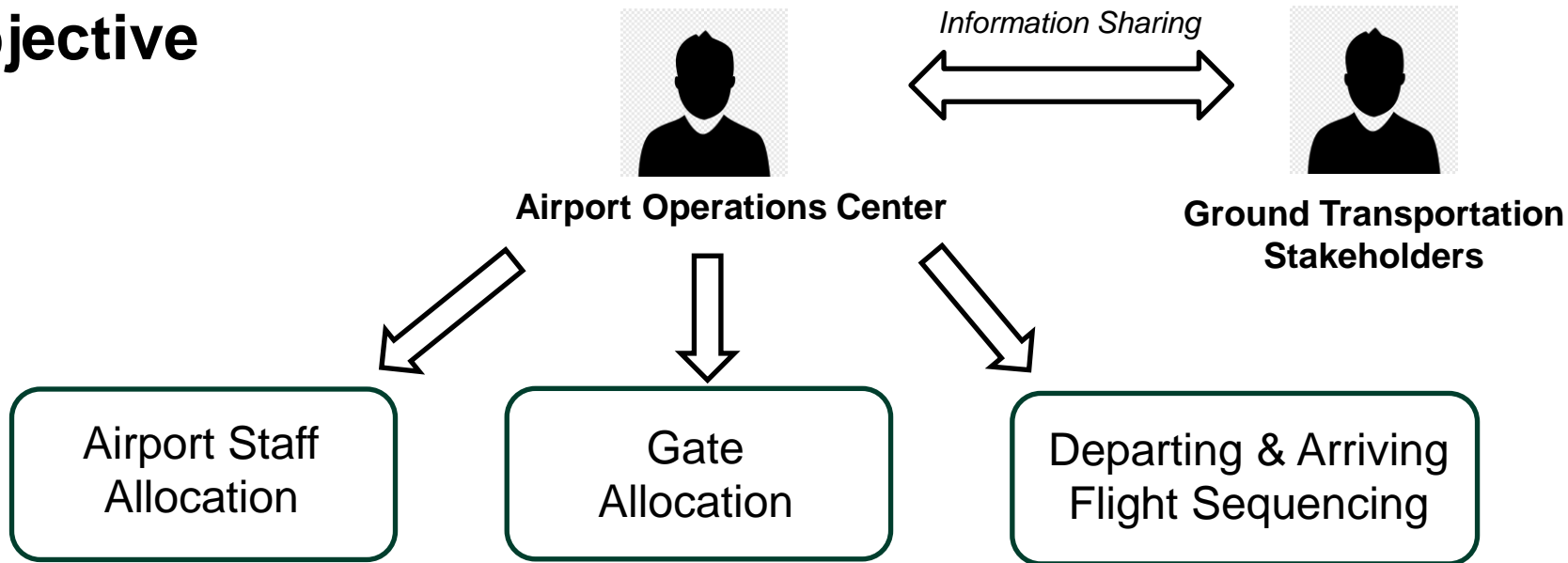


Risk of stranded
passengers at the
airport

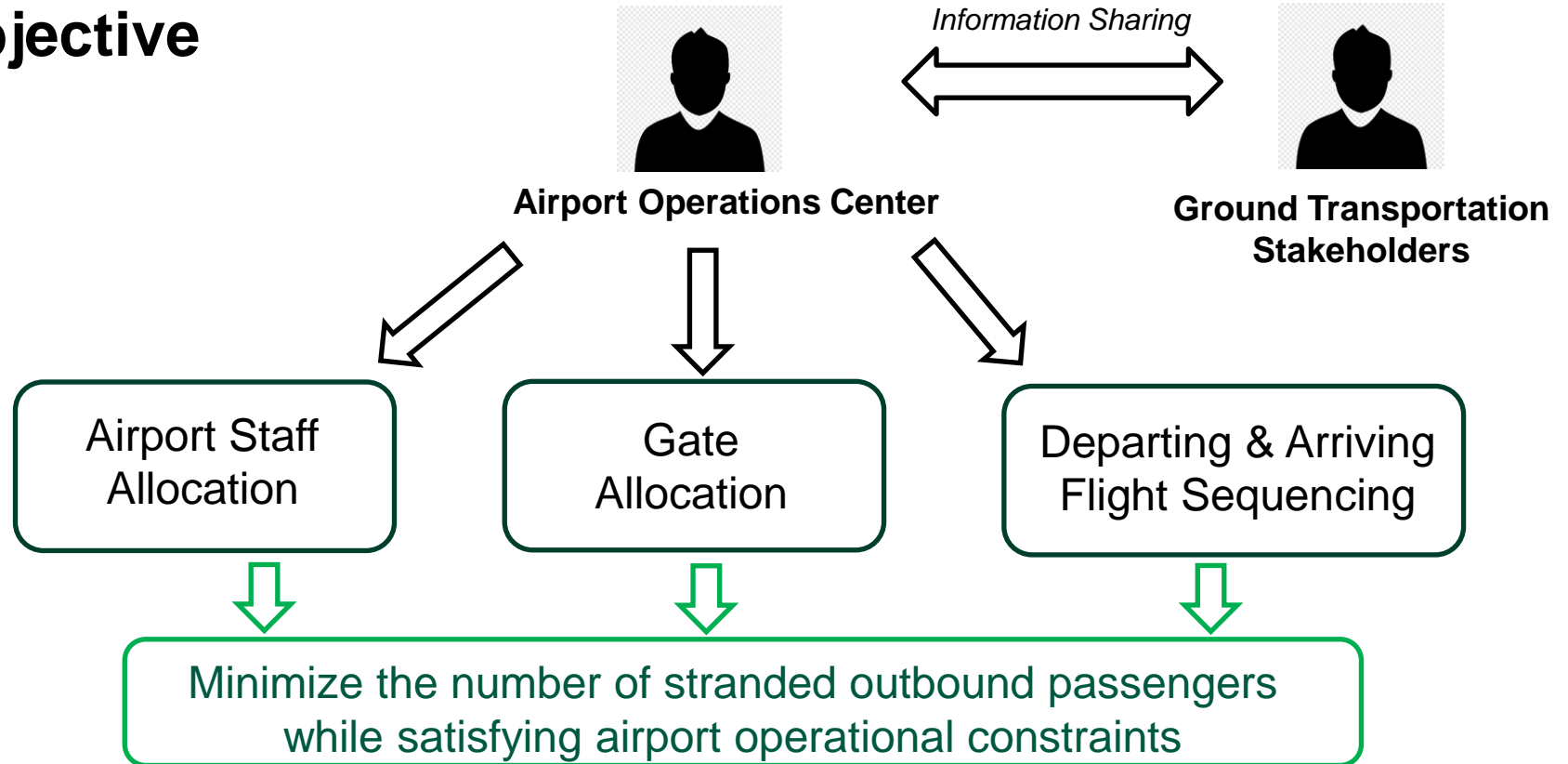
Objective



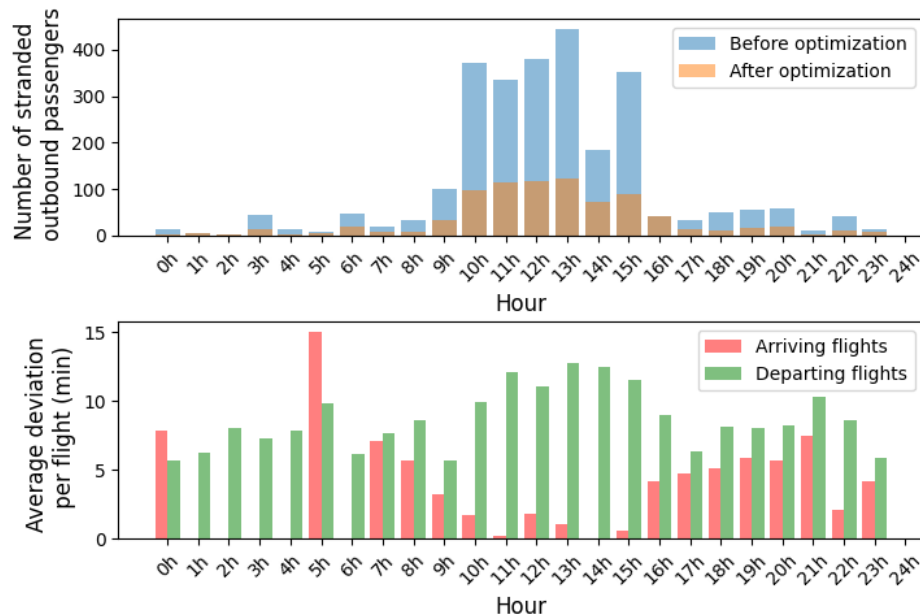
Objective



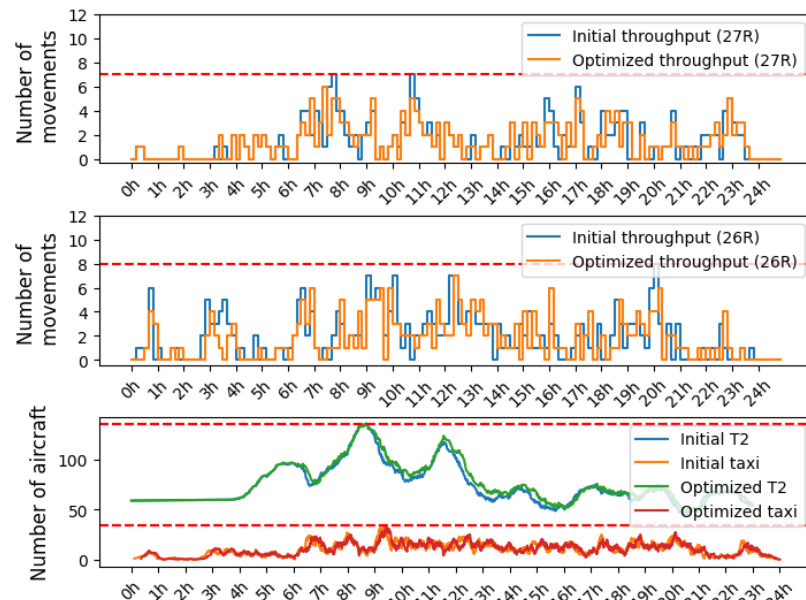
Objective



Results



Initial schedule vs optimized schedule
(objective function)



Initial schedule vs optimized schedule
(constraint satisfaction)

Publications

Published :

Buire, C., Scozzaro, G., Marzuoli, A., Feron, E., & Delahaye, D. (2021, December). A Year Into the Pandemic: a Passenger Perspective on its Impact at Paris-Charles de Gaulle Airport. In *2021 IEEE International Conference on Big Data (Big Data)* (pp. 2925-2935). IEEE.

Pending :

Scozzaro, G., Ji, M., Delahaye, D., Mancel, C & Feron, E. (February, 2022) Flight Rescheduling to Improve Passenger Journey during a Disruptive Event. In *11th International Conference on Research in Air Transportation (ICRAT 2022)*.

Monmousseau, P., Scozzaro, G., Buire, C., Marzuoli, A., Delahaye, D., & Feron, E. (February, 2022) Analyzing and comparing door-to-door travel times for air and rail transportation using publicly available data. In *Transportation Research Part E: Logistics and Transportation Review*



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Thank you for your attention !