

## **PROFESSIONAL READINESS FOR INNOVATION, EMPLOYABILITY AND ENTREPRENEURSHIP**

### **Airlines Data Analytics for Aviation Industry**

#### **Problem Statement:**

In this activity you are expected to gather/collect the relevant information on project use case, refer the existing solutions, technical papers, research publications etc.

#### **Literature survey:**

(Iris Hausladen, Maximilian Schosser -2020)

In this study, Iris Hausladen, Maximilian Schosser address this challenge by developing a maturity model for big data readiness for airline network planning.

The transfer steps have been combined with the model evaluation. In the second stage, the maturity levels are conceptualized and formulated, before the complete model is evaluated by the practitioner group.

#### **References:**

Barnhart, C., Farahat, A., Lohatepanont, M., 2009. Airline Fleet Assignment with Enhanced Revenue Modeling. *Oper. Res.* 57, pp. 231–244.

Atkinson, S.E., Ramdas, K., Williams, J.W., 2016. Robust Scheduling Practices in the U.S. Airline Industry: Costs, Returns, and Inefficiencies. *Manage. Sci.* 62, pp. 3372–3391.

Benlic, U., 2018. Heuristic search for allocation of slots at network level. *Transp. Res. Part C Emerg. Technol.* 86, pp. 488– 509.

Bélanger, N., Desaulniers, G., Soumis, F., Desrosiers, J., 2006. Periodic airline fleet assignment with time windows, spacing constraints, and time dependent revenues. *Eur. J. Oper. Res.* 175, pp. 1754–1766.

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