



Coloquio Inst-Mat

Instituto de Matemáticas

Universidad de Talca

Camino Lircay S/N, Campus Norte, Talca-Chile

Time-to-event analysis y Machine Learning

Alonso Allende Silva*

Safran Group, Paris, Francia.

Abstract

In this work, we make an experimental comparison of semi-parametric (Cox proportional hazards model, Aalen additive model), parametric (Weibull AFT model), and machine learning models (Random Survival Forest, Gradient Boosting Cox Proportional Hazards Loss, DeepSurv) through the concordance index on two different datasets (PBC and GBCSG2). We present two comparisons: one with the default hyperparameters of these models and one with the best hyperparameters found by randomized search.

Zoom: <https://reuna.zoom.us/j/81334559341>

*e-mail: alonso.silva-allende@safrangroup.com