

# A Minimal Book Example

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# Chapter 1

## thesis Ferdinands

Goal: evaluate performance of different models of the ASReview tool.

### 1.0.1 Stage 1: hyperparameter optimization

We are testing 5 models on 5 different datasets.

Every model has its own set of hyperparameters. The hyperparameters are optimized on the 5 datasets in three different ways:

- 1 on 1: maximum performance
- 4 on 1: cross-validation
- 5 on 1: more data = more better?

This results  $(5 + 5 + 1) * 5$  sets of hyperparameters.

### 1.0.2 Stage 2: simulation

for every for every model (5), for every dataset (5) and for every set of optimized hyperparameters (3), a simulation study is performed. From these  $5 * 5 * 3 = 75$  simulation studies, performance of the different models is evaluated.

## 1.1 Scripts

- simulatie:
  - ☐ script die optimalisatie genereert (config files.)
  - ☐ script die `.ini`'s voor simulatie genereert.



## Chapter 2

# Introduction (#intro)

SR are booming ML tools as well

(?)

What must be the objective of our tool?

Selecting papers is a two-step process: abstract & fulltext screening

### 2.1 Current solutions

Workload savings 30-70 percent, at a loss of 5% of relevant studies (?).

