

Aggregate Simulation model ARMA

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1 Meeting Tasks to Study

- Propose the parametric space of the simulation study.
- Based on previous experience, very long time series can be problematic; a sample size of around 1000 data points may be more suitable for analysis.
- Review details about the ECG datasets already found and answer the question: Are these data already clustered/classified in the literature?
- Always bring validated, high-quality references and citations.
- Identify another possible dataset for clustering/classification.
- Browse carefully through <http://www.timeseriesclassification.com>.
- Create a benchmark for time series clustering using simulated data:
 - Explore different ARMA models (varying series lengths and parameters).
 - Investigate the “addition” of deterministic chaos.

```
summary(cars)
```

```
##      speed      dist
## Min.   : 4.0    Min.   : 2.00
## 1st Qu.:12.0    1st Qu.: 26.00
## Median :15.0    Median : 36.00
## Mean   :15.4    Mean    : 42.98
## 3rd Qu.:19.0    3rd Qu.: 56.00
## Max.   :25.0    Max.    :120.00
```

1.1 Including Plots

You can also embed plots, for example:

