Latex-Template



PROJECT TITLE

Project Description

TITLE

rédigé par Allemand Instable

Abstract

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contribution

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Notation	Signification
Category A	
Category B	

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Chapter 1

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1.1 section example

1.1.1 subsection example

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$$\mathbb{Y} = m(x) + \varepsilon$$

Chapter 2

Chapter 2

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Chapter 3

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Appendix A

Some Appendix

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A.1	with subsection		
Α2	and another one		

Appendix B

Code Examples

B.1 with comments

```
# — install — #
install.packages(c("fda", "fda.usc"))
# — general packages — #

library(data.table)
# — FDA packages — #

library(fda)
library(fda.usc)
```

B.2 Math in code bloc

```
\mid X_1 \mid X_2 \mid \cdots \mid X_p \mid
   # | Jan 1st 12:00 | : | : |
   data <- fread("data.csv")</pre>
3
5
   # un individu = une ligne
6
   # donc pour une série temporelle, il faut transposer les observations
    → et avoir la suite des données disposées sur une ligne.
   fdata_standard_index <- fda.usc::fdata(</pre>
8
       mdata = t(X),
        argvals = to_unit_interval(
10
11
       \# on doit ramener les dates dans l'intervalle [0,1]
12
           data[, .(date)]
13
        )
14
15
```

B.3 some generic code

```
nb_points <- ncol(fdata)</pre>
   nb_ts <- nrow(fdata)</pre>
2
   fda_optim_basis <- fda.usc::optim.basis(</pre>
       fdataobj =
5

→ select_representative_observations_for_mean_function_fdata(fdata_ts)
        type.CV = fda.usc::GCV.S,
6
       W = NULL,
       lambda = lambda_CV_look_list,
8
       numbasis = num_basis__seq,
       type.basis = "bspline",
10
       verbose = TRUE
11
12
```

another code block:

```
fda_optimal_basis <- ...
fdata_obj_temp <- fda_optimal_basis[["fdata.est"]]
fdata_obj <- fda.usc::fdata2fd(fdata_obj_temp)

fpca_result <- fda::pca.fd(
    fdobj = fdata_obj,
    nharm = 3,
    # centrer les données
    centerfns = TRUE

)</pre>
```

B.4 inline block with math

Regardons désormais à quoi ressemble la sortie :

Appendix C

Article's Appendix

C.1

C.2

Bibliography

[1] A. Monfort C. Gourieroux and A. Trognon. Pseudo maximum likelihood methods: Theory. <u>The</u> Econometric Society, 52(3), 1984. pages 681-700. DOI: https://doi.org/10.2307/1913471.