



<https://github.com/mxochicale/phd-thesis>

mxochicale / phd-thesis

My open access PhD thesis (submitted: 26th October 2018, corrected: 20 May 2019).

36 commits · 1 branch · 2 releases · 1 contributor · CC-BY-SA-4.0

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File	Commit	Message	Time
0_code_data	[0_code_data/readme.md] update	[0_code_data/readme.md] update	14 minutes ago
abstract	[final-version] CORRECTED VERSION TO BE EXAMINED	[final-version] CORRECTED VERSION TO BE EXAMINED	13 days ago
acknowledgement	[final-version] alpha version	[final-version] alpha version	25 days ago
appendixA	[final-version] CORRECTED VERSION TO BE EXAMINED	[final-version] CORRECTED VERSION TO BE EXAMINED	13 days ago
appendixB	[final-version] CORRECTED VERSION TO BE EXAMINED	[final-version] CORRECTED VERSION TO BE EXAMINED	13 days ago
appendixC	[final-version] CORRECTED VERSION TO BE EXAMINED	[final-version] CORRECTED VERSION TO BE EXAMINED	13 days ago
appendixD	[final-version] CORRECTED VERSION TO BE EXAMINED	[final-version] CORRECTED VERSION TO BE EXAMINED	13 days ago
appendixE	[final-version] CORRECTED VERSION TO BE EXAMINED	[final-version] CORRECTED VERSION TO BE EXAMINED	13 days ago
appendixF	[final-version] CORRECTED VERSION TO BE EXAMINED	[final-version] CORRECTED VERSION TO BE EXAMINED	13 days ago
chapter1	[final-version] CORRECTED VERSION TO BE EXAMINED	[final-version] CORRECTED VERSION TO BE EXAMINED	13 days ago
chapter2	[final-version] CORRECTED VERSION TO BE EXAMINED	[final-version] CORRECTED VERSION TO BE EXAMINED	13 days ago
chapter3	[final-version] CORRECTED VERSION TO BE EXAMINED	[final-version] CORRECTED VERSION TO BE EXAMINED	13 days ago
chapter4	[final-version] CORRECTED VERSION TO BE EXAMINED	[final-version] CORRECTED VERSION TO BE EXAMINED	13 days ago
chapter5	[final-version] CORRECTED VERSION TO BE EXAMINED	[final-version] CORRECTED VERSION TO BE EXAMINED	13 days ago
chapter6	[final-version] CORRECTED VERSION TO BE EXAMINED	[final-version] CORRECTED VERSION TO BE EXAMINED	13 days ago
chapter7	[final-version] CORRECTED VERSION TO BE EXAMINED	[final-version] CORRECTED VERSION TO BE EXAMINED	13 days ago
classes	thesis draft v1.75	thesis draft v1.75	last year
declaration	submission	submission	last year
dedication	submission	submission	last year
dependencies	submission	submission	last year
figs	[final-version] CORRECTED VERSION TO BE EXAMINED	[final-version] CORRECTED VERSION TO BE EXAMINED	13 days ago
preamble	[final-version] CORRECTED VERSION TO BE EXAMINED	[final-version] CORRECTED VERSION TO BE EXAMINED	13 days ago
references	[final-version] CORRECTED VERSION TO BE EXAMINED	[final-version] CORRECTED VERSION TO BE EXAMINED	13 days ago
why	first commit	first commit	2 years ago
xtms	[README.md] update	[README.md] update	5 days ago
LICENSE	README and LICENSE	README and LICENSE	this year
Makelife	[final-version] alpha version	[final-version] alpha version	25 days ago
README.md	[README.md] update	[README.md] update	5 days ago
USAGE.md	tydingap	tydingap	last year
Variables.m	first commit	first commit	2 years ago
lyBOOK.md	README and LICENSE	README and LICENSE	this year
thesis-info.tex	[final-version] CORRECTED VERSION TO BE EXAMINED	[final-version] CORRECTED VERSION TO BE EXAMINED	13 days ago
thesis.tex	[final-version] CORRECTED VERSION TO BE EXAMINED	[final-version] CORRECTED VERSION TO BE EXAMINED	13 days ago

Nonlinear Analysis to Quantify Movement Variability in Human-Humanoid Interaction

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Latest commit 2ef6c9e 7 minutes ago

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1_code [final-version] CORRECTED VERSION TO BE EXAMINED 13 days ago

readme.md [0_code_data/readme.md] update 7 minutes ago

Code and data

This thesis has been written in GNU Linux Operating System and tested in Ubuntu 14.04.5 LTS and Ubuntu 16.04.2 LTS. For its replication, it is suggested that users install either Ubuntu 14.04.5 LTS or Ubuntu 16.04.2 LTS (other GNU Linux distributions can also work) with the latest version of R and its dependencies including GNU Octave version 4.0.2 (see [here](#) for installation of dependencies).

Organisation of paths

`0_data` contains all the input data that is either retrieved from external sources or created manually. The core principle here is that nothing in this folder should ever be modified. The data in this folder should remain identical to the way that you have retrieved or manually created it.

`1_code` contains for all code files. This includes:

- 0_mechanisms
- 1_libraries_functions
- 1_dependencies
- 2_anthropometrics
- 3_fig1_ch2
- 3_creation_of_curated_timeseries
- 5_fig1_ch4
- 7_fig1_ch5
- 8_fig1_ch6
- 9_fig1_appendices
- 10_narrative

Replication of results

For figure replication, the paths are organised as follows:

- `./code` contains R scripts that create figures in
- `./pic`, and
- `./vector` which contains the vector files.

Clone github repository

```
mkdir -p $HOME/phd && cd $HOME/phd
git clone https://github.com/mxochicale/phd-thesis
# create temporal paths
mkdir -p $HOME/phd/tmp/phdupdate
```

OA DATA

- * Multidimensional Times-series
- 22 participants,
- 4 IMUs (6 axis), and
- 4 Activities.

OA SOFTWARE

- * R version 3.4.4 (2018-03-15)
- * R packages:
 - data.table
 - ggplot2
 - tseriesChaos
 - nonlinearTseries
 - RccArmadillo
- * GNU Octave 4.0.2

OA PhD Thesis

- * LaTeX project
- * Vector files

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<https://doi.org/10.5281/zenodo.1473140>

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