CODECHECK certificate 2023-011

https://doi.org/10.5281/zenodo.FIXME

Item	Value
Title	Does enforcing glenohumeral joint stability matter? A new rapid muscle redundancy solver highlights the importance of non-superficial shoulder muscles
Authors	Italo Belli , Ajay Seth
Reference	BioRxiv preprint (2003) https://www.biorxiv.org/content/10.1101/2023.07.11.548542v1
Codechecker	Stephen J. Eglen
Date of check	2023-09-18 13:00:00
Summary	Codecheck performed interactively as part of the Delft 2023 workshop.
Repository	https://github.com/codecheckers/Reproduction-HancockXXX

Table 1: CODECHECK summary

Output	Comment	Size (b)
`codecheck/figure3-screenshot.png`	manuscript Figure 3 (composite)	1198909

Table 2: Summary of output files generated

Summary

Source of project https://github.com/ComputationalBiomechanicsLab/rmr-solver

This code was fairly straightforward to codecheck. [… ADD MORE INTERESTING FINDINGS HERE..]

CODECHECKER notes

The GitHub repo … This check is based on the commit `fefcb73d0799aa32c8f9fe80d33104ced75d7fff`. Code was written in … I went through the following steps … One hard problem was … I added the following files … using tools/methods …

This took … minutes to complete on {a large workstation, my laptop}.

Recommendations

I suggest to the authors to consider the following suggestions for their next publication or workflow:

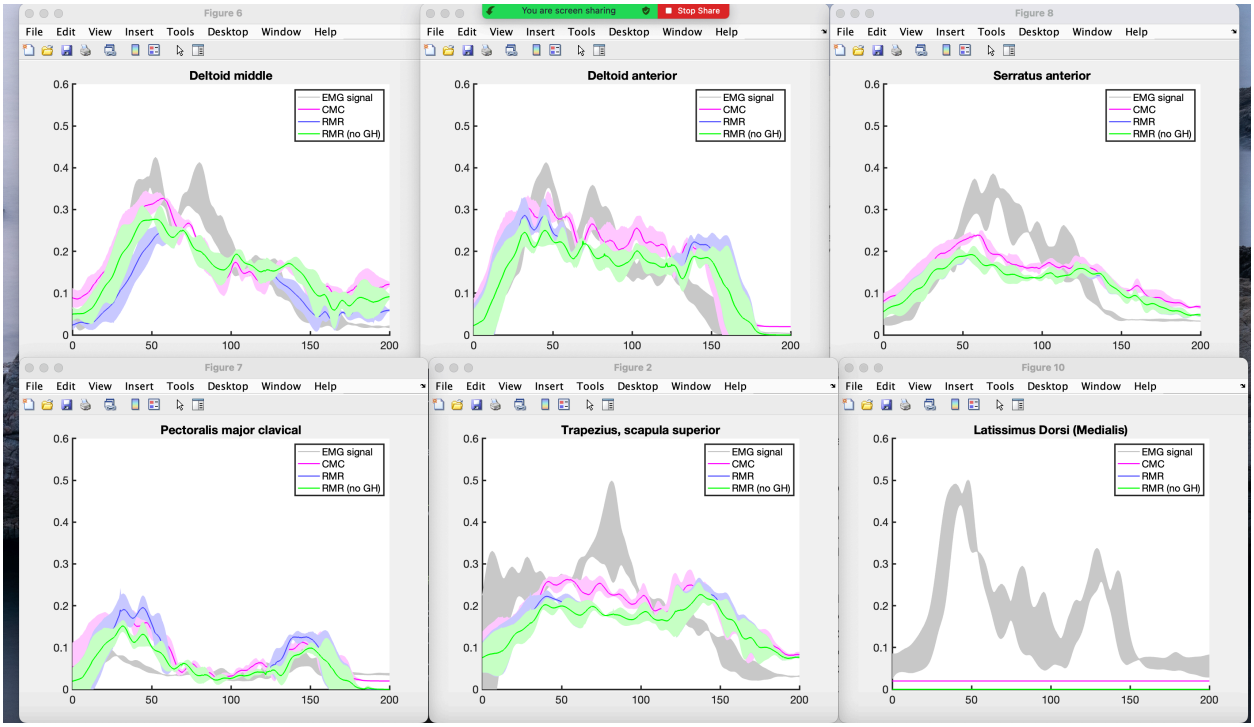
- …

(document here if any of the suggestions were taken up by the authors in the meantime - do not remove any, keep track of contributions via feedback)

Manifest files

figure3-screenshot.png

Comment: manuscript Figure 3 (composite)



Acknowledgements

I would like to thank Dr Bhatt and his team for promptly answering any queries I had with this reproduction. CODECHECK is financially supported by the Mozilla foundation.

Citing this document

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About CODECHECK

This certificate confirms that the codechecker could independently reproduce the results of a computational analysis given the data and code from a third party. A CODECHECK does not check whether the original computation analysis is correct. However, as all materials required for the reproduction are freely available by following the links in this document, the reader can then study for themselves the code and data.

About this document

This document was created using R Markdown using the `codecheck` R package. `make codecheck.pdf` will regenerate the report file.

```
sessionInfo()
```

```
## R version 4.3.1 (2023-06-16)
## Platform: aarch64-apple-darwin22.4.0 (64-bit)
## Running under: macOS Ventura 13.5.2
##
## Matrix products: default
## BLAS:   /opt/homebrew/Cellar/openblas/0.3.23/lib/libopenblasp-r0.3.23.dylib
## LAPACK: /opt/homebrew/Cellar/r/4.3.1/lib/R/lib/libRlapack.dylib;  LAPACK version 3.11.0
##
## locale:
## [1] en_GB.UTF-8/en_GB.UTF-8/en_GB.UTF-8/C/en_GB.UTF-8/en_GB.UTF-8
##
## time zone: Europe/London
## tzcode source: internal
##
## attached base packages:
## [1] stats     graphics  grDevices utils     datasets
## [6] methods   base
##
## other attached packages:
##  [1] readr_2.1.3          tibble_3.1.8
##  [3] xtable_1.8-4         yaml_2.3.6
##  [5] rprojroot_2.0.3      knitr_1.41
##  [7] codecheck_0.1.0.9005 git2r_0.32.0
##  [9] parsedate_1.3.1      R.cache_0.16.0
## [11] gh_1.3.1
##
## loaded via a namespace (and not attached):
##  [1] utf8_1.2.2        generics_0.1.3    xml2_1.3.3
##  [4] stringi_1.7.12    zen4R_0.8         httpcode_0.3.0
##  [7] hms_1.1.2         digest_0.6.31     magrittr_2.0.3
```

```
## [10] evaluate_0.19     fastmap_1.1.0     R.oo_1.25.0
## [13] jsonlite_1.8.4    R.utils_2.12.2    whisker_0.4.1
## [16] DBI_1.1.3         crul_1.4.0        httr_1.4.4
## [19] purrr_1.0.0       fansi_1.0.3       cli_3.6.0
## [22] rlang_1.0.6       R.methodsS3_1.8.2 ellipsis_0.3.2
## [25] cachem_1.0.6      tools_4.3.1       tzdb_0.3.0
## [28] memoise_2.0.1     dplyr_1.0.10      curl_4.3.3
## [31] assertthat_0.2.1  vctrs_0.5.1       R6_2.5.1
## [34] lifecycle_1.0.3   stringr_1.5.0     fs_1.5.2
## [37] pkgconfig_2.0.3   rorcid_0.7.0      osfr_0.2.9
## [40] pillar_1.8.1      glue_1.6.2        xfun_0.36
## [43] tidyselect_1.2.0  keyring_1.3.1     htmltools_0.5.4
## [46] rmarkdown_2.19    compiler_4.3.1    fauxpas_0.5.2
```