

AGILE 2019 PhD School Proceedings

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This document provides some scripts and documentation of manual steps for generating the AGILE 2019 PhD School Proceedings for CEUR-WS.

Get the repos

```
library("here")
```

```
## here() starts at /home/daniel/git/agile_2019_phd_school_proceedings
```

```
article_repos <- here::here("article_repos")  
article_pdfes <- here::here("submission/ceur-ws")
```

To update a specific article, simply delete the corresponding directory `article_repos`

```
# read from repos.txt  
library("tibble")  
suppressPackageStartupMessages(library("dplyr"))  
library("stringr")  
library("rmarkdown")  
  
articles <- as_tibble(read.csv2(here::here("repos.txt"), comment.char = "#",  
                              stringsAsFactors = FALSE)) %>%  
  dplyr::mutate(id = stringr::str_replace_all(.$author, "[;\\.\\s]", " ") %>%  
    stringr::str_replace_all(  
      c('ü' = 'ue', 'ï' = 'ie', 'ë' = 'ee', 'ä' = 'ae',  
        'ö' = 'oe', 'š' = 's', 'í' = 'i', 'ř' = 'r')) %>%  
    stringr::str_squish() %>%  
    stringr::str_replace_all(" ", "_") %>%  
  dplyr::mutate(path = file.path(article_repos, .$id)) %>%  
  arrange(id)  
  
# clone repos  
library("gert")
```

```
## Linking to libgit2 v0.27.7, ssh support: YES, https support: YES
```

```
## Default user: Travis CI <daniel.nuest@uni-muenster.de>
```

```

for (i in 1:nrow(articles)) {
  repo <- articles[i,]
  path <- repo$path
  if(dir.exists(path)) {
    cat("Skipping existing directory ", rmarkdown::relative_to(dir = here(), path), "\n")
    next()
  }

  dir.create(path, showWarnings = FALSE)
  cat("Cloning for", repo$author, "from", repo$work_repo, "to", path, "\n")
  gert::git_clone(url = paste0("https://github.com/", repo$work_repo), path = path)
}

```

```

## Skipping existing directory article_repos/Alexander_Kmoch_Evelyn_Uuemaa_Daniel_Nuest
## Skipping existing directory article_repos/Bruno_Montibeller
## Skipping existing directory article_repos/Daiga_Parsova
## Skipping existing directory article_repos/Ditsuhi_Iskandaryan
## Skipping existing directory article_repos/Ewa_Grabska
## Skipping existing directory article_repos/Georgios_Leventis
## Skipping existing directory article_repos/Jakub_Konicek
## Skipping existing directory article_repos/Jennie_Gray
## Skipping existing directory article_repos/Marcin_Szwagrzyk
## Skipping existing directory article_repos/Marketa_Beitlova
## Skipping existing directory article_repos/Moris_Zahtila
## Skipping existing directory article_repos/Radek_Barvir
## Skipping existing directory article_repos/Sansar_Raj_Meena
## Skipping existing directory article_repos/Yannis_Paraskevopoulos

```

Create a PDF for each repo

```
remotes::install_local("template/ceurticles", force = TRUE, dependencies = FALSE)
```

```

##      checking for file '/tmp/RtmpL8nsNf/file2b8d5da854f/ceurticles/DESCRIPTION' ... v checking for
## - preparing 'ceurticles':
##      checking DESCRIPTION meta-information ... v checking DESCRIPTION meta-information
## - checking for LF line-endings in source and make files and shell scripts
## - checking for empty or unneeded directories
## - building 'ceurticles_0.1.9000.tar.gz'
##
##

```

```

## Installing package into '/home/daniel/R/x86_64-pc-linux-gnu-library/3.6'
## (as 'lib' is unspecified)

```

1. Identify “main file”
2. For each article
3. Copy template files using the template in the R package `template/ceurticles` to the paper directory
4. Render document

```

rmd_file <- function(p) {
  candidates <- list.files(p, pattern = "\\R\\.Rmd$", ignore.case = TRUE)
  if(length(candidates) > 1) {
    warning("Found more than one R Markdown file in ", p, "\n\t",
            toString(candidates), "\n\tUsing: ", candidates[[1]], "\n\n")
    return(candidates[[1]])
  }
  if(length(candidates) < 1) {
    warning("Found NO R Markdown file in ", p, "\n\n")
    return(NA)
  }
  else {
    return(candidates)
  }
}

articles$rmd_file <- unlist(sapply(articles %>% arrange(id) %>% .$path, rmd_file))

```

```

## Warning in FUN(X[[i]], ...): Found more than one R Markdown file in /home/daniel/git/agile_2019_phd_
## AGILEreport.Rmd, notes.Rmd
## Using: AGILEreport.Rmd

```

```

## Warning in FUN(X[[i]], ...): Found more than one R Markdown file in /home/daniel/git/agile_2019_phd_
## Meena.Rmd, notes.Rmd
## Using: Meena.Rmd

```

```
library("kableExtra")
```

```

##
## Attaching package: 'kableExtra'

## The following object is masked from 'package:dplyr':
##
## group_rows

```

```

articles %>%
  dplyr::mutate(path = sapply(articles$path,
                             rmarkdown::relative_to, dir = here(),
                             USE.NAMES = FALSE)) %>%
  knitr::kable(format = "latex") %>%
  kableExtra::kable_styling(latex_options="scale_down")

```

author	work_repo	other_repo	id	path	rmd_file
Alexander Knoch, Evelyn Uemaa, Daniel Nüst	agilephdschool2019/agile_2019_summary	alexander/agile_2019_summary	Alexander Knoch Evelyn Uemaa Daniel Nüst	article_repos/Alexander Knoch Evelyn Uemaa Daniel Nüst	index.Rmd
Bruno Monttheller	agilephdschool2019/brunomonttheller_agile_2019	brunomonttheller/agile_2019	Bruno Monttheller	article_repos/Bruno Monttheller	notes_agile_2019.Rmd
Daiya Perova	agilephdschool2019/daiyaperova_AGILE	daiyaperova/AGILE	Daiya Perova	article_repos/Daiya Perova	notes.Rmd
Ditsuhl Iskandaryan	agilephdschool2019/Ditsuhl_agile2019	Ditsuhl/agile2019	Ditsuhl Iskandaryan	article_repos/Ditsuhl Iskandaryan	Summary.Rmd
Ewa Grabka	agilephdschool2019/egrabka_tartu_project	egrabka/tartu_project	Ewa Grabka	article_repos/Ewa Grabka	project.Rmd
Georgios Leventis	agilephdschool2019/gxarmanis_agile_2019	gxarmanis/agile_2019_test	Georgios Leventis	article_repos/Georgios Leventis	notes.Rmd
Jakub Konecny	agilephdschool2019/konijati_agile	konijati/agile_test	Jakub Konecny	article_repos/Jakub Konecny	konecny.Rmd
Jennie Gray	agilephdschool2019/jgray1923_AGILE_2019	jgray1923/AGILE_2019_test	Jennie Gray	article_repos/Jennie Gray	AGILEreport.Rmd
Marcin Swagryk	agilephdschool2019/marcinswagryk_AGILE_school	marcinswagryk/AGILE_school	Marcin Swagryk	article_repos/Marcin Swagryk	notatka.Rmd
Marketa Benilova	agilephdschool2019/marpedim7_agile_2019	expesim7/agile_2019	Marketa Benilova	article_repos/Marketa Benilova	notetext.Rmd
Moris Zahitila	agilephdschool2019/mahitila_agile_phd_school	mahitila/agile_phd_school	Moris Zahitila	article_repos/Moris Zahitila	notes.Rmd
Radek Barvir	agilephdschool2019/radekbarvir_agile_2019	radekbarvir/agile_2019_test	Radek Barvir	article_repos/Radek Barvir	radek.Rmd
Sansar Raj Meena	agilephdschool2019/sansarmeena_Agile_2019_phd	sansarmeena/Agile_2019_phd_Meena	Sansar Raj Meena	article_repos/Sansar Raj Meena	Meena.Rmd
Yannis Parnakevopoulos	agilephdschool2019/yannis-p_agile_2019	yannis-p/agile_2019_test	Yannis Parnakevopoulos	article_repos/Yannis Parnakevopoulos	notes_pre-16.rmd

```

library("rmarkdown")
library("rticles")
library("ceurticles")

dir.create(article_pdfs, showWarnings = FALSE)

template_dir <- tempdir()
if (!file.exists(file.path(template_dir, "article.Rmd")))
  rmarkdown::draft(file.path(template_dir, "article.Rmd"),
    template = "twocolpceurws_article", package = "ceurticles",
    edit = FALSE, create_dir = FALSE)

copy_article_files <- function(article) {
  file.copy(file.path(template_dir, c("copyright.tex",
    "twocolpceurws.sty",
    "samplebib.bib")),
    article$path, overwrite = FALSE)
}

#copy_article_files(article = articles[1,])

for (i in 1:nrow(articles)) {
  copy_article_files(article = articles[i,])
}

```

Now manually make sure that the R Markdown files compile.

Here is a template header with the required fields. Note that the bibliography, even if no references are used, must be set. The authors' affiliation, orcid and email are optional.

```

---
title: "AGILE PhD School working notes"
author:
  - name: Alexander Kmoch
    affiliation: University of Tartu, Estonia
    email: alexander.kmoch@ut.ee
    orcid: 0000-0003-4386-4450
  - name: Evelyn Uemaa
    affiliation: University of Tartu, Estonia
    orcid: 0000-0002-0782-6740
abstract: |
  TODO abstract here
output:
  ceurticles::twocolpceurws_article
bibliography: samplebib.bib
---

```

```

render_article_file <- function(article) {
  output_file <- file.path(article_pdfs, paste0(article$id, ".pdf"))
  cat("Rendering article", file.path(article$path, article$rmd_file),
    "to", output_file, "\n")

  rmarkdown::render(file.path(article$path, article$rmd_file),
    output_file = output_file)
}

```

```

}

#render_article_file(articles[14,])

for (i in 1:nrow(articles)) {
  render_article_file(article = articles[i,])
}

##
##
## processing file: index.Rmd

## output file: index.knit.md

##
## Output created: submission/ceur-ws/Alexander_Kmoch_Evelyn_Uuemaa_Daniel_Nuest.pdf

##
##
## processing file: notes_agile_2019.Rmd

## output file: notes_agile_2019.knit.md

##
## Output created: submission/ceur-ws/Bruno_Montibeller.pdf

##
##
## processing file: notes.rmd

## output file: notes.knit.md

##
## Output created: submission/ceur-ws/Daiga_Parsova.pdf

##
##
## processing file: Summary.Rmd

## output file: Summary.knit.md

##
## Output created: submission/ceur-ws/Ditsuhi_Iskandaryan.pdf

##
##
## processing file: project.Rmd

## output file: project.knit.md

```

```
##
## Output created: submission/ceur-ws/Ewa_Grabska.pdf

##
##
## processing file: notes.Rmd

## output file: notes.knit.md

##
## Output created: submission/ceur-ws/Georgios_Leventis.pdf

##
##
## processing file: konicek.Rmd

## output file: konicek.knit.md

##
## Output created: submission/ceur-ws/Jakub_Konicek.pdf

##
##
## processing file: AGILEreport.Rmd

## output file: AGILEreport.knit.md

##
## Output created: submission/ceur-ws/Jennie_Gray.pdf

##
##
## processing file: notatka.Rmd

## output file: notatka.knit.md

##
## Output created: submission/ceur-ws/Marcin_Szwagrzyk.pdf

##
##
## processing file: notetex.Rmd

## output file: notetex.knit.md

##
## Output created: submission/ceur-ws/Marketa_Beitlova.pdf

##
##
## processing file: notes.Rmd
```

```

## output file: notes.knit.md

##
## Output created: submission/ceur-ws/Moris_Zahtila.pdf

##
##
## processing file: radek.Rmd

## output file: radek.knit.md

##
## Output created: submission/ceur-ws/Radek_Barvir.pdf

##
##
## processing file: Meena.Rmd

## output file: Meena.knit.md

##
## Output created: submission/ceur-ws/Sansar_Raj_Meena.pdf

##
##
## processing file: notes_pre_fv.rmd

## output file: notes_pre_fv.knit.md

##
## Output created: submission/ceur-ws/Yannis_Paraskevopoulos.pdf

```

```
list.files(article_pdfs)
```

```

## [1] "AGILEPHD2019.bib"
## [2] "Alexander_Kmoch_Evelyn_Uemaa_Daniel_Nuest.pdf"
## [3] "Bruno_Montibeller.pdf"
## [4] "Daiga_Parsova.pdf"
## [5] "Ditsuhi_Iskandaryan.pdf"
## [6] "Ewa_Grabska.pdf"
## [7] "Georgios_Leventis.pdf"
## [8] "index.html"
## [9] "Jakub_Konicek.pdf"
## [10] "Jennie_Gray.pdf"
## [11] "Marcin_Szwagrzyk.pdf"
## [12] "Marketa_Beitlova.pdf"
## [13] "Moris_Zahtila.pdf"
## [14] "Radek_Barvir.pdf"
## [15] "Sansar_Raj_Meena.pdf"
## [16] "Yannis_Paraskevopoulos.pdf"

```

Create CEUR-WS proceedings

Based on <http://ceur-ws.org/HOWTOSUBMIT.html>

Generate the table of contents

1. Install ceur-make
 - On Ubuntu install `libsaxonhe-java` and find the location of the `.jar` file with `dpkg -L libsaxonhe-java` (or get the JAR from somewhere else)
 - Create the submission files from the directory of `ceur-make`, using `./ceur-make-init ~/git/agile_2019_phd_school_proceedings/submission`
 - Adjust `Makefile.vars` with path to SAXON HE
3. Enter all information in `submission/workshop.xml` *manually*
4. Enter all information in `submission/toc.xml` *with the script below*

```
suppressPackageStartupMessages(library("glue"))

author_template <- '<author>{author}</author>'
paper_template <- '<paper id="{id}">
  <title>{title}</title>
  <authors>
    {authors}
  </authors>
</paper>'

generate_toc_entry <- function(article) {
  article_yaml <- rmarkdown::yaml_front_matter(file.path(article$path, article$rmd_file))
  authors <- paste0(glue::glue_data(
    list(author = sapply(article_yaml$author,
                        function(a) { a$name })),
    author_template),
    collapse = "\n  ")
  glue::glue_data(list(title = article_yaml$title,
                      id = article$id,
                      authors = authors),
    paper_template)
}

tocs <- c()
for (i in 1:nrow(articles)) {
  tocs <- c(tocs, generate_toc_entry(article = articles[i,]))
}

toc_file <- file("submission/toc.xml")
writeLines(c("<toc>",
            tocs,
            "</toc>"),
  con = toc_file)
close(toc_file)
```


3. Create submission in submission directory with `ceur-make`

```
cd submission
make ceur-ws/index.html ceur-ws/temp.bib
mv ceur-ws/temp.bib ceur-ws/AGILEPHD2019.bib

## i=1 ; \
## for p in 999????? ; \
## do \
## [[ ! -e $p/$p.pdf ]] && break ; \
## ln -sfv ../$p/$p.pdf ceur-ws/paper-$(printf "%02d" $i).pdf ; \
## (( i++ )) ; \
## done ; \
## if [[ -e ../proc.pdf ]] ; then \
## ln -sfv ../proc.pdf ceur-ws/$(< ID)-complete.pdf ; \
## fi
## java -jar /usr/share/maven-repo/net/sf/saxon/Saxon-HE/9.9.1.1/Saxon-HE-9.9.1.1.jar toc.xml toc2ceurindex.html
## > ceur-ws/index.html
## java -jar /usr/share/maven-repo/net/sf/saxon/Saxon-HE/9.9.1.1/Saxon-HE-9.9.1.1.jar toc.xml toc2bibtex.bib
## echo "Please copy ceur-ws/temp.bib to ceur-ws/$(< ID).bib and fine-tune manually"
## Please copy ceur-ws/temp.bib to ceur-ws/AGILEPHD2019.bib and fine-tune manually
```

Prepare the submission file

1. Double check `submission/ceur-ws/index.html` and `submission/ceur-ws/AGILEPHD2019.bib`
2. HTML Validation: *“You can check the consistency/completeness of the submission directory by accessing it locally with your Web browser, and we require you to validate it using the W3C Validator. If you use RDFa tags, we ask you to validate your RDFa by using the W3C RDFa parser.”*

Note: If you make any changes in the directory `submission/ceur-ws`, you must manually recreate the ZIP file!

```
submission_file <- here::here("submission/agilephd2019.zip")
file.remove(submission_file)
```

```
## [1] TRUE
```

```
zip(zipfile = submission_file, files = "submission/ceur-ws")
```

Submit with the “Upload (Procedure PUT)”

1. Check <http://ceur-ws.org/HOWTOSUBMIT.html#TOPERRORS>
 2. Create a release tag, https://github.com/agilephdschool2019/agile_2019_phd_school_proceedings/releases
 3. Upload the submission ZIP r to some public share
 4. Upload a ZIP with the signed agreements to some public share
 5. Send the link to the submission archive to CEUR via Email
- Subject: CEURWS submission: AGILE PhD School 2019
 - Content:
 - URLs of the aforementioned ZIP files
 - Your contact details

Metadata

```
sessionInfo()
```

```
## R version 3.6.2 (2019-12-12)
## Platform: x86_64-pc-linux-gnu (64-bit)
## Running under: Ubuntu 19.10
##
## Matrix products: default
## BLAS:   /usr/lib/x86_64-linux-gnu/openblas/libblas.so.3
## LAPACK: /usr/lib/x86_64-linux-gnu/libopenblas-p-r0.3.7.so
##
## locale:
##  [1] LC_CTYPE=en_US.UTF-8      LC_NUMERIC=C
##  [3] LC_TIME=de_DE.UTF-8      LC_COLLATE=en_US.UTF-8
##  [5] LC_MONETARY=de_DE.UTF-8  LC_MESSAGES=en_US.UTF-8
##  [7] LC_PAPER=de_DE.UTF-8     LC_NAME=C
##  [9] LC_ADDRESS=C             LC_TELEPHONE=C
## [11] LC_MEASUREMENT=de_DE.UTF-8 LC_IDENTIFICATION=C
##
## attached base packages:
## [1] stats      graphics  grDevices  utils      datasets  methods    base
##
## other attached packages:
##  [1] glue_1.4.0          ceurticles_0.1.9000 rtticles_0.14.1
##  [4] kableExtra_1.1.0    gert_0.3            rmarkdown_2.1
##  [7] stringr_1.4.0       dplyr_0.8.5         tibble_3.0.1
## [10] here_0.1
##
## loaded via a namespace (and not attached):
##  [1] Rcpp_1.0.4.6      pillar_1.4.3      compiler_3.6.2    prettyunits_1.1.1
##  [5] remotes_2.1.1     tools_3.6.2       sys_3.3           pkgbuild_1.0.7
##  [9] digest_0.6.25     viridisLite_0.3.0 evaluate_0.14      lifecycle_0.2.0
## [13] pkgconfig_2.0.3   rlang_0.4.5       rstudioapi_0.11   cli_2.0.2
## [17] yaml_2.2.1        xfun_0.13         xml2_1.3.2        http_1.4.1
## [21] withr_2.2.0       knitr_1.28        hms_0.5.3         vctrs_0.2.4
## [25] askpass_1.1       webshot_0.5.2     rprojroot_1.3-2   tidyselect_1.0.0
## [29] R6_2.4.1          processx_3.4.2    fansi_0.4.1       readr_1.3.1
## [33] purrr_0.3.4       callr_3.4.3       magrittr_1.5      scales_1.1.0
## [37] backports_1.1.6   credentials_1.1    ps_1.3.2          ellipsis_0.3.0
## [41] htmltools_0.4.0   rvest_0.3.5       assertthat_0.2.1  colorspace_1.4-1
## [45] tinytex_0.22      stringi_1.4.6     munsell_0.5.0     openssl_1.4.1
## [49] crayon_1.3.4
```