langsci-affiliations

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User guide

This package provides a command \ResolveAffiliations, which collects authoraffiliation pairs and outputs them according to the user configuration. It is aimed at class authors, i.e. maintainers of document templates in publishing houses, universities, etc.

Takes the $\{\langle pairs\ of\ authors\ and\ affiliations\rangle\}$, orders them internally and outputs them according to the $[\langle options \rangle]$.

 $\{\langle Pairs\ of\ authors\ and\ affiliations\rangle\}$ is a list of authors and affiliations, separated by a customisable string. The defaults for the separators are and for authors and; for affiliations. The conventional author separator \and is automatically converted to the chosen author separator. Affiliations are given within \affiliation within the $\{\langle pairs \rangle\}$ argument. This command is not defined by this package and possibly existing definitions are left unchanged.

For example:

```
\ResolveAffiliations{
  A. U. Thor\affiliation{University of the Moon; University of Mars}
  and B. U. Thor\affiliation{University of Mars}
}
results in:
A. U. Thor<sup>a,b</sup> & B. U. Thor<sup>b</sup>
<sup>a</sup>University of the Moon <sup>b</sup>University of Mars
```

The output can be customised using the $[\langle options \rangle]$. They are described below.

\SetupAffiliations \SetupAffiliations {\langle options \rangle}

Options can be set either globally or locally. With $\texttt{SetupAffiliations}\{\langle options \rangle\}$, they apply globally. If they are set with \ResolveAffiliations [\langle options \rangle], they apply locally.

^{*}mailto:felix.kopecky@langsci-press.org. Please submit bug reports and feature requests to $\verb|https://github.com/langsci/langsci-affiliations/issues|.$

mark style = $\langle style \rangle$

(initially alphabetic)

Controls which markers should be used in the indexes of affiliations. Can be a either of {alphabetic, numeric, circled, none}.

output affiliation = \langle boolean \rangle

(initially true)

Affiliations are output if true, otherwise not.

orcid placement = \langle choice \rangle

(initially none)

Decide whether and where to place ORCIDs around author names. Valid choices are {none, before, after}.

output in groups = \langle boolean \rangle

(initially true)

If true, authors and affiliations are output in the same line. When false each author and affiliation gets its own line. Only available if output affiliation=true.

output authors font = $\langle font \ commands \rangle$

(initially \Large)

Stores the font settings for the ouput of authors.

output affiliation font = $\langle font \ commands \rangle$

(initially \normalsize)

Stores the font settings for outputting affiliations.

output authors paragraph format = \langle layout \rangle

(initially \raggedright)

Stores the paragraph settings for the author block. These settings are only applied if output in groups=true.

output affiliation paragraph format = $\langle layout \rangle$ (initially \raggedright) Stores the paragraph settings for the affiliation block. These settings are only applied if output in groups=true.

Output separators between authors and affiliations are customisable as well:

separator between two = $\langle tokens \rangle$

(initially ~&~)

If there are only two authors, use these $\langle tokens \rangle$ to separate them.

separator between multiple = $\langle tokens \rangle$

(initially,~)

If there are more than two authors, use these $\langle tokens \rangle$ to separate every pair except the last one.

separator between final two = $\langle tokens \rangle$

(initially ~&~)

Use these (tokens) to separate the last pair of authors if ther are more than two.

separator between indices = \langle tokens \rangle

(initially,)

Use these to separate affiliation indices after each author.

separator between affiliations = $\langle tokens \rangle$

(initially \Box)

Separates the affiliations in the affiliation line.

author affiliation skip = \langle dimexpr \rangle

(initially \smallskipamount)

Distance between author(s) and affiliation(s).

The way the input is digested can be customised with these two settings:

input names separator = \langle tokens \rangle

(initially ~and~)

Separates the author names in the input.

```
input affiliation separator = \langle tokens \rangle
                                                                                (intially;)
     Separates the affiliations in the input, within dummy command \affiliation.
```

 $\CountAuthorsFromAffiliations \CountAuthorsFromAffiliations \[\langle options \rangle\] \ \{\langle pairs of authors and affiliations \rangle\}$ New: 2021-12-06

> A document command to count the numbers of authors given in a list. Useful for conditional behaviour of document classes based on the numbers of authors. It takes the same optional arguments as \ResolveAffiliations. For example, a custom author separator is recognised by this command.

> The result is stored in the global integer variable \S_{a} affiliations_num_authors_int.

 $\LinkToORCIDinAffiliations \LinkToORCIDinAffiliations {\langle orcid \rangle}$

New: 2022-09-27 This document command is intended as a user interface to customise the way ORCIDs are output. For example, it can be set to forward the input ORCIDs to \orcidlink from the orcidlink package:

```
\RenewDocumentCommand{\LinkToORCIDinAffiliations}{ +m }
    \,\orcidlink{#1}%
```

Implementation

```
1 (*package)
2 (@@=affiliations)
3 \RequirePackage{xparse}
4 \ProvidesExplPackage {langsci-affiliations} {2024-04-09} {1.4}
5 {A LaTeX3 package to collect and order authors and affiliations}
```

\ResolveAffiliations The top-level document command. It is grouped to keep assignments local.

```
6 \NewDocumentCommand{\ResolveAffiliations}{ O{} +m }
    {%
      \group_begin:
      \keys_set:nn { affiliations } { #1 }%
      \exp_args:No \affiliations_resolve:n { #2 }%
10
      \group_end:
```

(End of definition for \ResolveAffiliations. This function is documented on page 1.)

\LinkToORCIDinAffiliations

The action taken to link to an ORCID. Designed to be overwritten by the user.

13 \ProvideDocumentCommand{\LinkToORCIDinAffiliations}{ +m }{ #1 }

 $(\mathit{End}\ of\ definition\ for\ \verb|\LinkToORCIDinAffiliations|.}\ \mathit{This}\ \mathit{function}\ \mathit{is}\ \mathit{documented}\ \mathit{on}\ \mathit{page}\ \textit{3.})$

```
Count authors and leave the result in the global integer variable \g__affiliations_-
\CountAuthorsFromAffiliations
                      num_authors_int.
                       \group_begin:
                              \keys_set:nn { affiliations } { #1 }%
                              \exp_args:No \affiliations_count_authors:n { #2 }%
                       18
                              \group_end:
                       19
                       20
                      (End of definition for \CountAuthorsFromAffiliations. This function is documented on page 3.)
                      A command to define options.
 \SetupAffiliations
                       21 \NewDocumentCommand{\SetupAffiliations}{ m }
                              \keys_set:nn { affiliations } { #1 }
                      (End of definition for \ensuremath{\char{\color{N}}} SetupAffiliations. This function is documented on page 1.)
                       25 \keys_define:nn { affiliations }
                       26
                              mark~style .tl_set:N
                       27
                                  = \l_affiliations_style_tl,
                              mark~style .initial:n
                       30
                                  = { alphabetic },
                              output~affiliation .bool_set:N
                       31
                                  = \l_affiliations_output_affiliation_bool,
                       32
                              \verb"output-affiliation".initial:n"
                       33
                                  = { true },
                       34
                              orcid~placement .tl_set:N
                       35
                                  = \l_affiliations_orcid_place_tl,
                       36
                              orcid~placement .initial:n
                       37
                                  = { none },
                              output~in~groups .bool_set:N
                                  = \l_affiliations_output_grouped_bool,
                              output~in~groups .initial:n
                       41
                                  = { true },
                       42
                              \verb|separator-between-two .tl_set:N|
                       43
                                  = \l_affiliations_separator_between_two_tl,
                       44
                              separator~between~two .initial:n
                       45
                                  = \{ \sim \backslash \& \sim \},
                       46
                              separator~between~multiple .tl_set:N
                       47
                                  = \l_affiliations_separator_between_mult_tl,
                       48
                              separator~between~multiple .initial:n
                                  = {,~},
                              separator~between~final~two .tl_set:N
                       51
                                  = \l_affiliations_separator_between_last_two_tl,
                       52
                              separator~between~final~two .initial:n
                       53
                                  = {~\&~},
                       54
                              separator~between~indices .tl_set:N
                       55
                                  = \l_affiliations_indices_separator_tl,
                       56
                              separator~between~indices .initial:n
                       57
```

= {,},

separator~between~affiliations .tl_set:N

58

```
= \l_affiliations_afil_separator_tl,
       separator~between~affiliations .initial:n
 61
           = {~},
 62
       output~authors~paragraph~format .cs_set:Np
 63
           = \__affiliations_output_authors_paragraph_format:,
 64
       output~authors~paragraph~format .initial:n
 65
           = {\raggedright},
 66
       output~authors~font .cs_set:Np
 67
           = \__affiliations_output_authors_font:,
       output~authors~font .initial:n
           = {\Large},
       output~affiliation~font .cs_set:Np
           = \__affiliations_output_affiliation_font:,
       output~affiliation~font .initial:n
 73
           = {\normalsize},
 74
       output~affiliation~paragraph~format .cs_set:Np
 75
           = \__affiliations_output_affiliation_paragraph_format:,
 76
       output~affiliation~paragraph~format .initial:n
 77
           = {\raggedright},
       input~names~separator .tl_set:N
 79
 80
           = \l_affiliations_input_names_sep_tl,
       input~names~separator .initial:n
 81
           = {~and~},
 82
       input~affiliation~separator .tl_set:N
 83
           = \l_affiliations_input_afil_sep_tl,
 84
       input~affiliation~separator .initial:n
 85
 86
       author~affiliation~skip .dim_set:N
 87
           = \l_author_affil_sep_dim,
 88
       author~affiliation~skip .initial:n
 90
           = {\smallskipamount}
     }
 91
Variants and variables
 93 \cs_generate_variant:Nn \prop_put:Nnn { Nxx }
 94 \cs_generate_variant:Nn \prop_put:Nnn { Nnx }
 95 \cs_generate_variant:Nn \seq_set_split:Nnn { NVV }
 96 \cs_generate_variant:Nn \seq_set_split:Nnn { NVn }
 97 \cs_generate_variant:Nn \tl_replace_all:Nnn { NnV }
 98 \clist_new:N \l__affiliations_tmpa_clist
 99 \int_new:N \l__affiliations_tmpa_int
\label{eq:loss_num_authors_int} $$100 \in \mathbb{N} \gtrsim_{affiliations_num_authors_int} $$
102 \seq_new:N \l__affiliations_authors_seq
103 \seq_new:N \l__affiliations_names_seq
104 \seq_new:N \l__affiliations_tmpa_seq
105 \seq_new:N \l__affiliations_tmpb_seq
106 \seq_new:N \l__affiliations_tmp_affil_seq
107 \seq_new:N \l__affiliations_tmp_orcid_seq
108 \tl_new:N \l__affiliations_tmpa_tl
109 \tl_new:N \l__affiliations_tmpb_tl
110 \tl_new:N \l__affiliations_tmpc_tl
111 \prop_new:N \l__affiliations_tmpa_prop
```

\prop_put:Nxx

\prop_put:Nnx \seq_set_split:Nvn

\l_affiliations_tmpa_clist

\l_affiliations_authors_seq

\l_affiliations_names_seq

\l_affiliations_tmpa_seq

\l__affiliations_tmpb_seq

\l_affiliations_tmpa_tl

\l_affiliations_tmpb_tl

\l_affiliations_affiliations_prop

\l_affiliations_output_prop

\l__affiliations_tmpa_int

 $\verb|\g_affiliations_num_authors| int$

\l affiliations_affiliations_seq

```
112 \prop_new:N \l__affiliations_output_prop
113 \prop_new:N \l__affiliations_affiliations_prop
114 \prop_new:N \l__affiliations_orcids_prop
```

(End of definition for \prop_put:Nxx and others.)

\l_affiliations_icons_prop

The data for the circled mark style. Since this uses the \char, it is only available in XeLaTeX.

```
https://orange.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.com/prop.c
```

 $(End\ of\ definition\ for\ \l_affiliations_icons_prop.)$

A helper macro to order affiliations. Is called by \affiliations_resolve:n.

```
\cs_new:Npn \__affiliations_resolve_affiliations: #1#2
124
       \clist_clear:N \l__affiliations_tmpa_clist
125
       \tl_if_empty:nTF {#2}
126
         {
           \prop_put:Nnn \l_affiliations_output_prop {#1} {}
128
         }
           \seq_set_split:NVn \l__affiliations_tmpa_seq
                               \l_affiliations_input_afil_sep_tl
                                { #2 }
           \seq_map_inline: Nn \l__affiliations_tmpa_seq
134
135
                \prop_get:NnNTF \l__affiliations_affiliations_prop
136
                                 \l_affiliations_tmpa_tl
138
139
                    \clist_put_right:NV \l__affiliations_tmpa_clist
140
                                         \l_affiliations_tmpa_tl
                 }
142
                 {
144
                    %Not yet present
                    \clist_put_right:Nx \l__affiliations_tmpa_clist
145
146
                        \prop_count:N \l__affiliations_affiliations_prop
147
148
                    \prop_put:Nnx \l_affiliations_affiliations_prop {##1}
149
                      { \prop_count:N \l__affiliations_affiliations_prop }
                 }
             }
           \prop_put:NnV \l__affiliations_output_prop
153
                          {#1}
154
                          \l_affiliations_tmpa_clist
155
         }
156
    }
157
```

 $(End\ of\ definition\ for\ \verb|__affiliations_resolve_affiliations:.)$

```
A helper macro that outputs the list of affiliations, usually below the list of authors.
\ affiliations output affiliations:
                                \cs_new:Nn \__affiliations_output_affiliations:
                             159
                                     \prop_map_inline: Nn \l__affiliations_affiliations_prop
                             161
                                         \int_set:Nn \l__affiliations_tmpa_int { ##2 }
                             162
                                         \str_case_e:nn { \l__affiliations_style_tl }
                             163
                             164
                                              {alphabetic}
                             165
                                                {
                             166
                                                  \textsuperscript{\int_to_alph:n{ \int_eval:n
                             167
                                                        \l_affiliations_tmpa_int + 1 }
                             168
                                                  } }
                             169
                                                }
                                              {numeric}
                             171
                                                { \textsuperscript{\int_eval:n {\l__affiliations_tmpa_int + 1} } }
                                              {circled}
                             174
                                                {
                                                  \prop_item:Nn \l__affiliations_icons_prop
                                                                  {\l_affiliations_tmpa_int}
                             176
                                                }
                             177
                                              {none} { }
                             178
                             179
                                         \tl_rescan:nn {} {##1}
                                         \int_compare:nNnT
                                           { \int_eval:n {\l__affiliations_tmpa_int + 1} }
                             183
                                           { \prop\_count:N \l_affiliations\_affiliations\_prop }
                             184
                                            { \tl_use:N \l__affiliations_afil_separator_tl }
                             185
                                       }
                             186
                                  }
                             187
                             (\mathit{End}\ of\ definition\ for\ \verb|\__affiliations\_output\_affiliations:.)
                            A helper macro that returns the affiliation marks.
 \ affiliations return afil text:n
                                \cs_new:Npn \__affiliations_return_afil_text:n #1
                             188
                             189
                             190
                                     \int_set:Nn \l__affiliations_tmpa_int { #1 }
                             191
                                     \str_case_e:nn { \l_affiliations_style_tl }
                                         {alphabetic}
                             193
                                              \seq_put_right:Nx \l__affiliations_tmpb_seq
                             195
                                                                  { \int_to_alph:n{ \int_eval:n {#1 + 1} } }
                             196
                                            }
                             197
                                         {numeric}
                             198
                             199
                                              \seq_put_right:Nx \l__affiliations_tmpb_seq
                             200
                             201
                                                                  { \int_eval:n {\l_affiliations_tmpa_int + 1} }
                             202
                                           }
                                         {circled}
                                           {
```

```
\seq_put_right:Nx \l__affiliations_tmpb_seq
                         205
                                                             { \prop_item: Nn \l_affiliations_icons_prop
                         206
                                                                              { \l_affiliations_tmpa_int} }
                         207
                                       }
                         208
                                     {none} { }
                         209
                         210
                              }
                         211
                         (End\ of\ definition\ for\ \\_affiliations\_return\_afil\_text:n.)
                        A helper macro to output the list of authors, with affiliation marks (if any).
\ affiliations output authors:
                            \cs_new:Nn \__affiliations_output_authors:
                              {
                         213
                                \seq_clear:N \l__affiliations_tmpa_seq
                         214
                                \prop_map_inline: Nn \l__affiliations_output_prop
                         215
                                  {
                         216
                                     \seq_clear:N \l__affiliations_tmpb_seq
                                     \clist_map_function:nN {##2} \__affiliations_return_afil_text:n
                         218
                                     \tl_set:Nn \l__affiliations_tmpb_tl
                         219
                                       {
                                         \seq_use:Nn \l__affiliations_tmpb_seq
                                                      {\l_affiliations_indices_separator_tl}
                                       }
                         223
                                     \str_case_e:nn { \l__affiliations_orcid_place_tl }
                         224
                                       {
                                         {none}
                         226
                                         ₹
                                           \seq_put_right:Nx \l__affiliations_tmpa_seq
                         228
                         229
                                                \tl_rescan:nn {} {##1}
                         230
                                                \exp_not:N
                                                  \textsuperscript{\tl_use:N \l_affiliations_tmpb_tl}
                         234
                                         }
                                         {before}
                                           \seq_put_right:Nx \l__affiliations_tmpa_seq
                         238
                                                \exp_not:N \__affiliations_recover_orcid:n { ##1 }
                         239
                                                \tl_rescan:nn {} {##1}
                         240
                                                \exp_not:N
                         241
                                                  \textsuperscript{\tl_use:N \l__affiliations_tmpb_tl}
                         242
                         243
                                         }
                                         {after}
                                           \seq_put_right:Nx \l__affiliations_tmpa_seq
                         247
                         248
                                                \tl_rescan:nn {} {##1}
                         249
                                                \exp_not:N \__affiliations_recover_orcid:n { ##1 }
                         250
                                                \exp_not:N
                         251
                                                  \textsuperscript{\tl_use:N \l_affiliations_tmpb_tl}
                         252
                                             }
                         253
```

}

```
}
                                    }
                           256
                                  \seq_use:Nnnn \l__affiliations_tmpa_seq
                           257
                                                   {\l_affiliations_separator_between_two_tl}
                           258
                                                   {\l_affiliations_separator_between_mult_tl}
                           259
                                                   {\l_affiliations_separator_between_last_two_tl}
                           260
                                }
                           261
                          (End\ of\ definition\ for\ \_affiliations\_output\_authors:.)
\affiliations_resolve:n
                          The main macro.
                             \cs_new:Npn \affiliations_resolve:n #1
                           263
                                  \tl_set:Nn \l__affiliations_tmpc_tl { #1 }
                                  \tl_replace_all:NnV \l__affiliations_tmpc_tl
                                                       { \ \ \ }
                                                       \l_affiliations_input_names_sep_tl
                           267
                                  \seq_set_split:NVV \l__affiliations_names_seq
                           268
                                                      \l_affiliations_input_names_sep_tl
                           269
                                                      \l_affiliations_tmpc_tl
                                  \seq_map_inline: Nn \l__affiliations_names_seq
                                      \tl_clear_new:N \l__affiliations_names_tmp_tl
                          273
                                      \tl_set:Nn \l_affiliations_names_tmp_tl { ##1 }
                          274
```

255

Regex-parsing: We store the $\{\langle affiliations \rangle\}$ found in \affiliation to a separate sequence, and the $\{\langle orcid \rangle\}$ found in $\backslash orcid$ to another sequence.

```
276
           \regex_extract_once:nnN
277
              {\c{affiliation} \cB. (\c[^BE].*) \cE.}
278
              { ##1 }
279
              \l_affiliations_tmp_affil_seq
           \regex_extract_once:nnN
282
              {\c{orcid} \cB. (\c[^BE].*) \cE.}
283
              { ##1 }
284
             \l_affiliations_tmp_orcid_seq
285
286
```

Now strip all instances of $\{ (list) \}$ and $\{ (id) \}$ to receive the name of the author. Also trim all leading and trailing spaces that remain after affiliation and ORCiD replacement.

```
287
           \regex_replace_all:nnN {\c{orcid} \cB. (\c[^BE].*) \cE.}
288
289
                                    \l_affiliations_names_tmp_tl
           \regex_replace_all:nnN {\c{affiliation} \cB. (\c[^BE].*) \cE.}
292
                                    {}
                                    \l_affiliations_names_tmp_tl
293
294
           \tl_trim_spaces:N \l__affiliations_names_tmp_tl
295
296
```

And store the data in two separate property lists.

```
297
           \prop_put:Nxx \l__affiliations_tmpa_prop
298
           { \tl_use:N \l_affiliations_names_tmp_tl }
299
           { \seq_item: Nn \l__affiliations_tmp_affil_seq {2} }
300
301
           \prop_put:Nxx \l__affiliations_orcids_prop
302
           { \tl_use:N \l_affiliations_names_tmp_tl }
303
           { \seq_item: Nn \l__affiliations_tmp_orcid_seq {2} }
        }
      \bool_if:NTF \l__affiliations_output_affiliation_bool
307
           \bool_if:NTF \l__affiliations_output_grouped_bool
308
            {
309
               \prop_map_function:NN \l__affiliations_tmpa_prop
310
                                     311
               \group_begin:
312
                 \noindent
313
                 \parbox {\linewidth}
315
                     \__affiliations_output_authors_paragraph_format:
316
317
                     \__affiliations_output_authors_font:
                     318
                   }
319
               \group_end:
320
               \skip_vertical:N \l__author_affil_sep_dim
321
               \group_begin:
322
                 \noindent
323
                 \parbox {\linewidth}
324
                     \__affiliations_output_affiliation_paragraph_format:
                     \__affiliations_output_affiliation_font:
327
                     \__affiliations_output_affiliations:
328
                   }
329
               \group_end:
330
            }
331
332
               \seq_clear:N \l__affiliations_tmpa_seq
333
               \prop_map_inline: Nn \l__affiliations_tmpa_prop
334
                   \str_case_e:nn { \l_affiliations_orcid_place_tl }
                     {
                       {none}
338
339
                         \seq_put_right:Nx \l__affiliations_tmpa_seq
340
                           {
341
                             \group_begin:
342
                               \exp_not:N \__affiliations_output_authors_font:
343
                               \tl_rescan:nn {} {##1}
                             \group_end:\\[\dim_use:N \l__author_affil_sep_dim]
345
                             \group_begin:
                               \exp_not:N \__affiliations_output_affiliation_font:
                               \tl_rescan:nn {} {##2}
348
                             \group_end:
349
```

```
}
350
                        }
351
                         {before}
352
                         {
353
                           \seq_put_right:Nx \l__affiliations_tmpa_seq
354
                             {
355
                               \group_begin:
356
                                  \exp_not:N \__affiliations_output_authors_font:
357
                                  \exp_not:N \__affiliations_recover_orcid:n { ##1 }
                                  \tl_rescan:nn {} {##1}\\[\dim_use:N \l__author_affil_sep_dim]
                               \group_end:
                               \group_begin:
361
                                  \exp_not:N \__affiliations_output_affiliation_font:
362
                                  \tl_rescan:nn {} {##2}
363
                               \group_end:
364
365
                         }
366
                         {after}
367
                         {
                           \seq_put_right:Nx \l__affiliations_tmpa_seq
                               \group_begin:
371
                                  \verb|\exp_not:N \  \   | \_affiliations_output_authors_font: \\
372
                                 \tl_rescan:nn {} {##1}
373
                                 \exp_not:N \__affiliations_recover_orcid:n { ##1 }
374
                                 \\[\dim_use:N \l__author_affil_sep_dim]
375
376
                               \group_end:
                               \group_begin:
377
                                  \exp_not:N \__affiliations_output_affiliation_font:
378
                                  \tl_rescan:nn {} {##2}
                               \group_end:
                             }
381
                        }
382
                      }
383
                  }
384
                \noindent
385
                \seq_use:Nnnn \l__affiliations_tmpa_seq
386
                                  {\l_affiliations_separator_between_two_tl}
387
                                  {\l_affiliations_separator_between_mult_tl}
                                  {\l_affiliations_separator_between_last_two_tl}
             }
         }
392
393
           \group_begin:
           \__affiliations_output_authors_font:
394
           \seq_clear:N \l__affiliations_tmpa_seq
395
           \prop_map_inline:Nn \l__affiliations_tmpa_prop
396
             {
397
                \str_case_e:nn { \l__affiliations_orcid_place_tl }
398
                    {none}
401
                      {
                         \seq_put_right:Nx
402
                           \l__affiliations_tmpa_seq
403
```

```
}
                         405
                                              {before}
                         406
                                                ₹
                         407
                                                   \seq_put_right:Nx
                         408
                                                     \l__affiliations_tmpa_seq
                         410
                                                         \exp_not:N \__affiliations_recover_orcid:n { ##1 }
                         411
                                                         \tl_rescan:nn {} {##1}
                         413
                                                }
                         414
                                              {after}
                         415
                                                {
                         416
                                                   \seq_put_right:Nx
                         417
                                                     \l_affiliations_tmpa_seq
                         418
                                                       {
                         419
                                                         \tl_rescan:nn {} {##1}
                         420
                                                         \exp_not:N \__affiliations_recover_orcid:n { ##1 }
                         421
                                                }
                                              }
                                       }
                         425
                                     \seq_use:Nnnn \l__affiliations_tmpa_seq
                         426
                                                       {\l_affiliations_separator_between_two_tl}
                         427
                                                       {\l_affiliations_separator_between_mult_tl}
                         428
                                                       {\l_affiliations_separator_between_last_two_tl}
                         429
                         430
                                     \group_end:
                                   }
                         431
                              }
                         (End of definition for \affiliations_resolve:n.)
 \affiliations count authors:n
                         Count the numbers of authors and saves the result in the global integer variable g_{-}
                         affiliations num authors int.
                            \cs_new:Npn \affiliations_count_authors:n #1
                         433
                         434
                                 \tl_set:Nn \l__affiliations_tmpc_tl { #1 }
                         436
                                 \tl_replace_all:NnV \l__affiliations_tmpc_tl
                                                       { \ \ \ }
                                                       \verb|\label{lambda}| 1_affiliations_input_names_sep_tl|
                                 \seq_set_split:NVV \l__affiliations_names_seq
                         439
                         440
                                                      \l__affiliations_input_names_sep_tl
                                                      \l_affiliations_tmpc_tl
                         441
                                 \int_gset:Nn \g__affiliations_num_authors_int
                         442
                                      \seq_count:N \l__affiliations_names_seq }
                         443
                         (End of definition for \affiliations_count_authors:n.)
\ affiliations recover orcid:n
                         Return the ORCID associated with an author.
                            \cs_new:Npn \__affiliations_recover_orcid:n #1
                         446
                              {
                                 \prop_get:NnNTF \l__affiliations_orcids_prop { #1 }
                                   \l_affiliations_tmpd_tl
```

{ \tl_rescan:nn {} {##1} }

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