

Elsearticle class for Typst

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MIT

Mathieu AUCEJO

ELSEARTICLE is a Typst template that aims to mimic the Elsevier article \LaTeX class, a.k.a. `elsearticle.cls`, provided by Elsevier to format manuscript properly for submission to their journals.

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Part I.

About

ELSEARTICLE is a Typst template that aims to mimic the Elsevier article \LaTeX class, a.k.a. `elsearticle.cls`, provided by Elsevier to format manuscript properly for submission to their journals.

ELSEARTICLE is designed to be as close as possible to the original class, whose specification can be found in the [documentation](#). The template is still in development and may not be fully compatible with all Elsevier journals.

This manual provides an overview of the features of the **ELSEARTICLE** template and how to use it.

The template is provided as is by the Typst community and is not affiliated with Elsevier.

Part II.

Usage

II.1. Using Elsearticle

To use the `ELSEARTICLE` template, you need to include the following line at the beginning of your `typ` file:

```
#import "@preview/elsearticle:0.1.0": *
```

II.2. Initializing the template

After importing `ELSEARTICLE`, you have to initialize the template by a show rule with the `#elsearticle()` command. This function takes an optional argument to specify the title of the document.

```
#show: elsearticle.with(  
  ...  
)
```

`#elsearticle()` takes the following arguments:

```
#elsearticle(  
  <title>: none,  
  <authors>: (),  
  <abstract>: none,  
  <paper-size>: "a4",  
  <journal>: none,  
  <keywords>: none,  
  <format>: "preprint"  
)[<body>]
```

Argument

`<title>: none`

str

Title of the paper

Argument

`<authors>: ()`

array

List of the authors of the paper

Each element of the `array` is a `dictionary` defining an author. The author `dictionary` has the following keys:

- `name str`: Name of the author
- `affiliation str`: Affiliation of the author
- `corr str | none`: email address of the corresponding author

2.2 Initializing the template

- id `str`: ID of the author

Example

```
authors: (  
  (  
    name: "J. Doe",  
    affiliation: "Laboratory 1, University 1, City 1",  
    corr: "jdoe@univ.edu",  
    id: "a",  
  ),  
  (  
    name: "J. Smith",  
    affiliation: "Laboratory 2, University 2, City 2",  
    corr: none,  
    id: "b"  
  ),  
)
```

Argument

<abstract>: `none`

`content`

Abstract of the paper

Argument

<journal>: `none`

`str`

Name of the journal

Argument

<keywords>: `none`

`array`

List of the keywords of the paper

Each element of the `array` is a `str` representing a keyword.

```
keywords: ("Keyword 1", "Keyword 2")
```

```
keywords: ("Keyword 1", "Keyword 2")
```

Argument

<format>: `"preprint"`

`str`

Format of the paper. Possible values are "preprint", "review", "1p", "3p", "5p", and "final"

At the moment, only the "preprint" format is supported.

II.3. Additional features

The `ELSEARTICLE` template provides additional features to help you format your document properly.

II.3.1. Subfigures

Subfigures are not built-in features of Typst, but the `ELSEARTICLE` template provides a way to handle them. To create a subfigure, you can use the following syntax:

Example

```
#figure(
  grid(columns: 2, gutter: 1em,
    [#subfigure(image("image1.png")) <figa>],
    [#subfigure(image("image2.png")) <figb>]
  ),
  caption: [(a) Left image and (b) Right image],
) <fig>
```

The `#ref()` function is customized to properly handle the subfigures reference (e.g. Fig. 1a) and cross-reference (via the `#link()` function).

More generally, the `#figure()` function is also modified to follow the guidelines of the `LATEX` `elsearticle` class.

Part III.

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