

ICHTML 2023 Authors' Instructions

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Keywords: The paper must have at least one keyword. For more than one keyword, please use a comma as a separator. Keywords must be titlecased.

Abstract: The abstract should summarize the contents of the paper and should contain at least 70 and at most 200 words.

1 ON THE L^AT_EX

You can freely use any L^AT_EX compatible typesetting system (e.g., TeXStudio + TexLive is a good choice for any operating systems), but if you don't to be involved into the L^AT_EX system administration, we propose to use a cloud based L^AT_EX editors like Overleaf (<https://www.overleaf.com>). After registering at www.overleaf.com, you can start your paper revision with this template using 'New Project' – 'Upload Project' menu (figure 1).


The next step is to select the template archive (figure 2).


To get a camera-ready version of your paper in PDF, you can click to 'Download PDF' icon or use 'Menu' to download both L^AT_EX source files (ZIP) and camera-ready version (PDF) (figure 3).


The most-often recommended tutorial is the '(Not So) Short Guide to L^AT_EX2 ϵ ' (<https://www.ctan.org/tex-archive/info/lshort/>).


2 ON THE TEMPLATE

SCITEPRESS proceedings article template provides a consistent L^AT_EX style for use across SCITEPRESS publications, and incorporates accessibility and metadata-extraction functionality. If you are new to publishing with SCITEPRESS, this document is a

^a <https://orcid.org/0000-0003-0789-0272>

^b <https://orcid.org/0000-0002-3522-7673>

^c <https://orcid.org/0000-0001-5397-6523>

^d <https://orcid.org/0000-0003-4843-0328>

valuable guide to the process of preparing your work for publication.

The template is composed by a set of 9 files, in the following 2 groups:

Group 1. To format your paper you will need to copy into your working directory, but NOT edit, the following 7 files:

- apalike.bst
- apalike.sty
- article.cls
- SCITEPRESS.sty
- orcid.eps
- orcid.png
- orcid-eps-converted-to.pdf

Group 2. Additionally, you may wish to copy and edit the following 2 example files:

- example.tex
- example-bibliography.bib

3 FIRST SECTION

This section must be in one column.

3.1 Title and Subtitle

Use the command `\title` and follow the given structure in "example.tex". The title and subtitle must be with initial letters capitalized (titlecased). The separation between the title and subtitle is done by adding a colon ":" just before the subtitle beginning. In the title or subtitle, prepositions like "is", "or", "then",

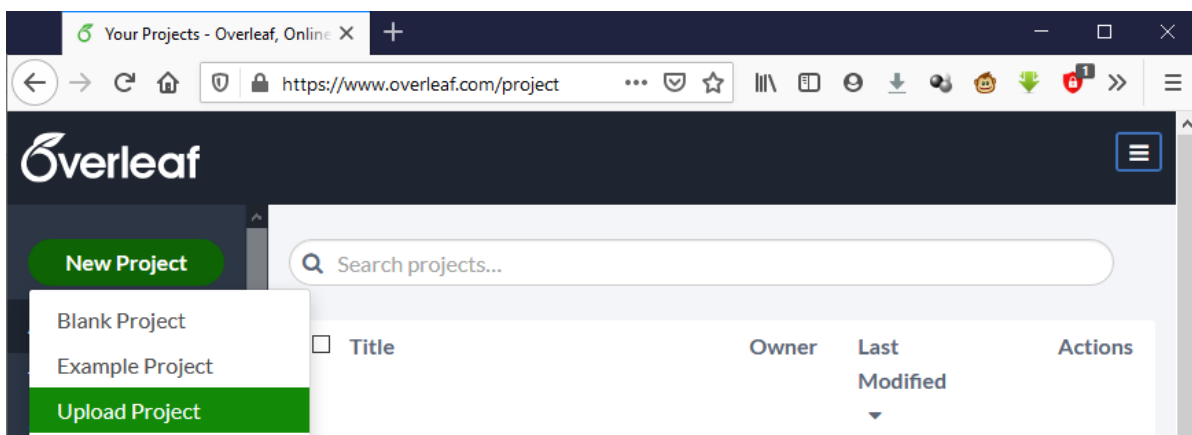


Figure 1: How to upload your project to Overleaf.

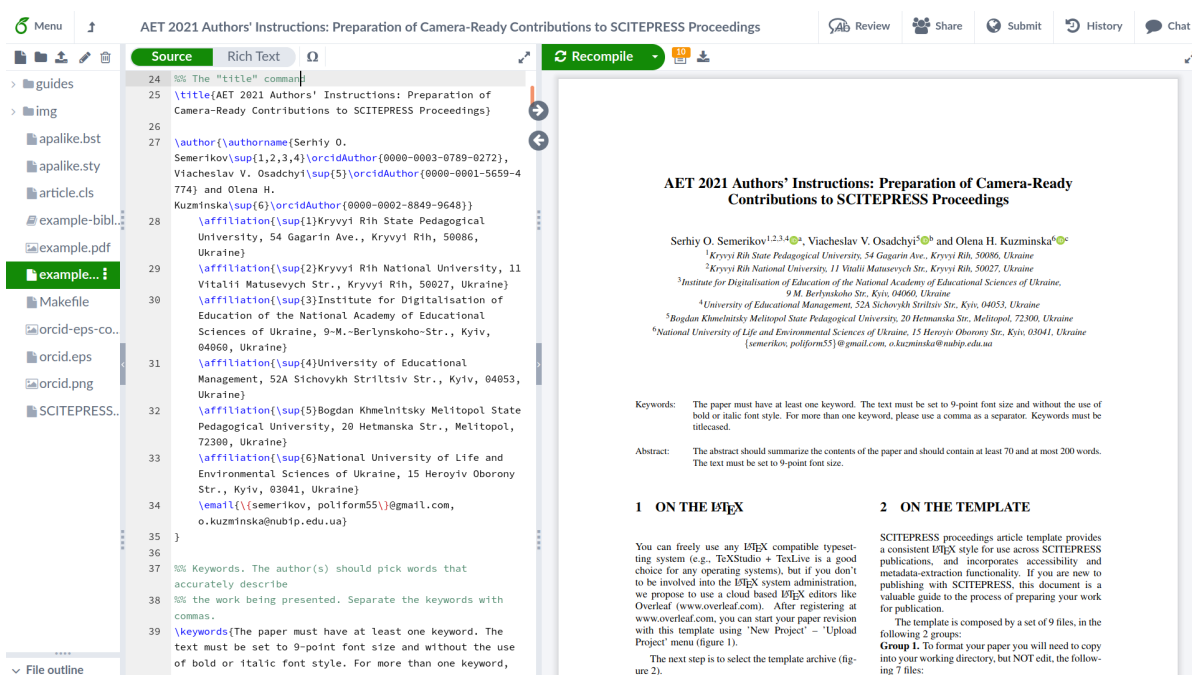


Figure 2: Overleaf, online \LaTeX editor.

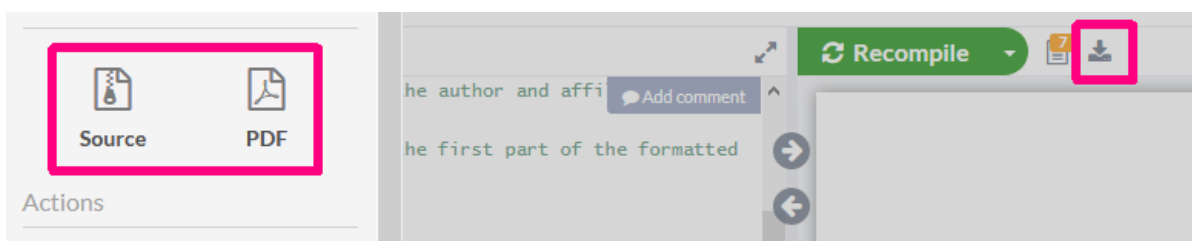


Figure 3: How to download your project from Overleaf.

etc. should not be capitalized unless they are the first word of the title or subtitle. No formulas or special characters of any form or language are allowed in the title or subtitle.

3.2 Authors and Affiliations

Each author must be defined separately for accurate metadata identification. Multiple authors may share

one affiliation. Authors' names should not be abbreviated; use full first names wherever possible. Include authors' ORCID's and e-mail addresses whenever possible.

The author names and affiliations could be formatted in two ways:

1. Group the authors per affiliation.
2. Use an explicit mark to indicate the affiliations.

Author block example shown in figure 4.

3.2.1 Keywords

Use the command `\keywords` and follow the given structure:

```
\keywords{Keyword1,  
Keyword 2,  
Last Keyword.}
```

Each paper must have at least one keyword. If more than one is specified, please use a comma as a separator. Keywords must be titlecased. The sentence must end with a period.

3.2.2 Abstract

Use the command `\abstract` and follow the given structure:

```
\abstract{  
This is an abstract.  
}
```

Each paper must have an abstract up to 200 words. The sentence must end with a period.

At the end of first section add a set of commands:

```
\onecolumn  
\maketitle  
\normalsize  
\setcounter{footnote}{0}  
\vfill
```

4 SECOND SECTION

This section must be in two columns.

Section, subsection and sub-subsection first paragraph should not have the first line indent.

To remove the paragraph indentation (only necessary for the sections), use the command `\noindent` before the paragraph first word.

4.1 Sectioning Commands

Your work should use standard \LaTeX sectioning commands: `\section`, `\subsection`, and `\subsubsection`. They should be numbered; do not remove the numbering from the commands.

4.1.1 Section Titles

The heading of a section title must be with initial letters capitalized (titlecased):

```
\section{\uppercase{Second Section}}
```

4.1.2 Subsection and Sub-Subsection Titles

The heading of a subsection and sub-subsection title should be with initial letters capitalized (titlecased).

Preposition words like “is”, “or”, “then”, etc. should not be capitalized unless they are the first word of the subsection title.

```
\subsection{Subsection Title}  
\subsubsection{Sub-Subsection Title}
```

4.2 Tables

Tables should be numbered sequentially throughout the text and referred to in the text by number (table 1, etc, **rather than** tab. 1). Each table should be a float and be positioned within the text at the most convenient place near to where it is first mentioned in the text. It should have an explanatory caption which should be as concise as possible.

Table captions are placed *above* the table. The final sentence of a caption should end with a period.

Because tables cannot be split across pages, the best placement for them is typically the top of the page nearest their initial cite. To ensure this proper “floating” placement of tables, use the environment `table` to enclose the table's contents and the table caption. The contents of the table itself must go in the `tabular` environment, to be aligned properly in rows and columns, with the desired horizontal and vertical rules.

Immediately following this sentence is the point at which table 3 is included in the input file; compare the placement of the table here with the table in the printed output of this document.

Tables must appear inside the designated margins or they may span the two columns. Tables in two columns must be positioned at the top or bottom of the page within the given margins. To span a table in two columns please add an asterisk (*) to the table `\begin` and `\end` command:

```

\author{\authorname{First Author Name\sup{1}\orcidAuthor{0000-0000-0000-0000},
                Second Author Name\sup{1}\orcidAuthor{0000-0000-0000-0000}
                and
                Third Author Name\sup{2}\orcidAuthor{0000-0000-0000-0000}}
\affiliation{\sup{1}Institute of Problem Solving, XYZ University, My Street, MyTown,
                MyCountry}
\affiliation{\sup{2}Department of Computing, Main University, MySecondTown, MyCountry}
\email{\{f\_author, s\_author\}@ips.xyz.edu, t\_author@dc.mu.edu}
}

```

Figure 4: Author block example.

```

\begin{table*}

\end{table*}

```

Tables should be centered and should always have a caption positioned above it. The font size to use is 9-point. No bold or italic font style should be used.

Table 1: This caption has one line so it is centered.

Example column 1	Example column 2
Example text 1	Example text 2

Table 2: This caption has more than one line so it has to be justified.

Example column 1	Example column 2
Example text 1	Example text 2

You can find a lot of examples at *Overleaf documentation on tables* (<https://www.overleaf.com/learn/latex/Tables>).

4.3 Algorithms and Listings

Algorithms and listings captions should have font size 9-point, no bold or italic font style should be used and the final sentence of a caption should end with a period. Captions with one line should be centered and if it has more than one line it should be set to justified.

4.3.1 Program Code

Program listing or program commands in text should be set in typewriter form such as Courier New using `small` and `verbatim` environments.

Example of a computer program in C:

```

#include <stdio.h>

int main(int argc, char *argv[])
{
    int i;

    for(i=0; i<argc; i++)
        printf("argv[%d] = %s\n", i, *(argv+i));
}

```

The text must be aligned to the left.

4.4 Math Equations

You may want to display math equations in three distinct styles: inline, numbered or non-numbered display. Each of the three are discussed in the next sections.

Equations may be numbered sequentially throughout the text (i.e., (1), (2), (3), ...) or numbered by section (i.e., (1.1), (1.2), (2.1), ...) depending on the author's personal preference. In articles with several appendices equation numbering by section is useful in the appendices even when sequential numbering has been used throughout the main body of the text: for example, A.1, A.2 and so forth. When referring to an equation in the text, always put the equation number in brackets – e.g. ‘as in equation (2)’ or ‘as in equation (2.1)’ – and always spell out the word ‘equation’ in full, e.g. ‘if equation (5) is factorized’; do not use abbreviations such as ‘eqn.’ or ‘eq.’.

4.4.1 Inline (In-Text) Equations

A formula that appears in the running text is called an inline or in-text formula. It is produced by the `math` environment, which can be invoked with the usual `\begin ... \end` construction or with the short form `$... $`. You can use any of the symbols and structures, from α to ω ; this section will simply show a few examples of in-text equations in context. Notice how this equation: $\lim_{n \rightarrow \infty} \frac{1}{n} = 0$, set here in in-line math style, looks slightly different when set in display style. (See next subsection).

4.4.2 Display Equations

A numbered display equation – one set off by vertical space from the text and centered horizontally – is produced by the `equation` environment. An unnumbered display equation is produced by the `displaymath` environment (or `equation*` with `amsmath` package).

Table 3: Frequency of special characters.

Non-English or Math	Frequency	Comments
∅	1 in 1,000	For Swedish names
π	1 in 5	Common in math
\$	4 in 5	Used in business
Ψ ₁ ²	1 in 40,000	Unexplained usage

Again, in either environment, you can use any of the symbols and structures available in L^AT_EX; this section will just give a couple of examples of display equations in context. First, consider the equation, shown as an inline equation above:

```
\begin{equation}
\lim_{n\rightarrow\infty}\frac{1}{n} = 0.
\end{equation}
```

$$\lim_{n \rightarrow \infty} \frac{1}{n} = 0. \quad (1)$$

Notice how it is formatted somewhat differently in the `displaymath` environment. Now, we'll enter an unnumbered equation:

```
\begin{displaymath}
S_n = \sum_{i=1}^n x_i,
\end{displaymath}
```

$$S_n = \sum_{i=1}^n x_i,$$

and follow it with another numbered equation:

```
\begin{equation}\label{lim}
\lim_{x \rightarrow 0} (1 + x)^{1/x} = e
\end{equation}
```

$$\lim_{x \rightarrow 0} (1 + x)^{1/x} = e \quad (2)$$

just to demonstrate L^AT_EX's able handling of numbering.

Usually, equations should be centred and should be numbered with the number on the right-hand side. (You can find an additional examples of alignment at *Overleaf documentation on aligning equations with amsmath* (https://www.overleaf.com/learn/latex/Aligning_equations_with_amsmath)).

Using `\label{equation}` you can refer to corresponding equation (e.g., equation (2)) by number.

4.5 Figures

Figures must be included in the source code of an article at the appropriate place in the text not grouped together at the end.

Figures should be centered and should always have a caption (see figure 7). Figure captions go below the figure. No bold or italic font style should be used in figure caption. The final sentence of a caption should end with a period.

As much lettering as possible should be removed from the figure itself and included in the caption. If a figure has parts, these should be labelled (a), (b), (c), etc.

Place the figure as close as possible after the point where it is first referenced in the text. If there are a large number of figures it might be necessary to place some before their text citation. Figures should never appear within or after the reference list.

Place two figures side-by-side if they will fit comfortably like this as it saves space. At times it may be convenient to put two figures side by side or the caption at the side of a figure. To put figures side by side, within a figure environment, put each figure and its caption into a minipage with an appropriate width (e.g. 3in or 18pc if the figures are of equal size) and then separate the figures slightly by adding some horizontal space between the two minipages (e.g. `\hspace{.2in}` or `\hspace{1.5pc}`). To get the caption at the side of the figure add the small horizontal space after the `\includegraphics` command and then put the `\caption` within a minipage of the appropriate width aligned bottom, i.e. `\begin{minipage}[b]{3in}` etc.

The “figure” environment should be used for figures. One or more images can be placed within a figure.

Figures in two columns must be positioned at the top or bottom of the page within the given margins. To span a figure in two columns please add an asterisk (*) to the figure `\begin` and `\end` command.

For figures with fixed position in text use syntax of figure 7:

```
\begin{figure}[h]
\centering
\includegraphics[width=0.75\linewidth]
{img/example-franklin}
\caption{1907 Franklin Model D roadster.}
\label{fig-0}
\end{figure}
```

If a figure has parts these should be labelled as (a), (b), (c) etc on the actual figure. Parts should not have separate captions (see figure 8).

```
\begin{figure}[t]
\begin{center}
\begin{minipage}[b]{0.47\columnwidth}
```



Figure 5: Figure caption for first of two sided figures.

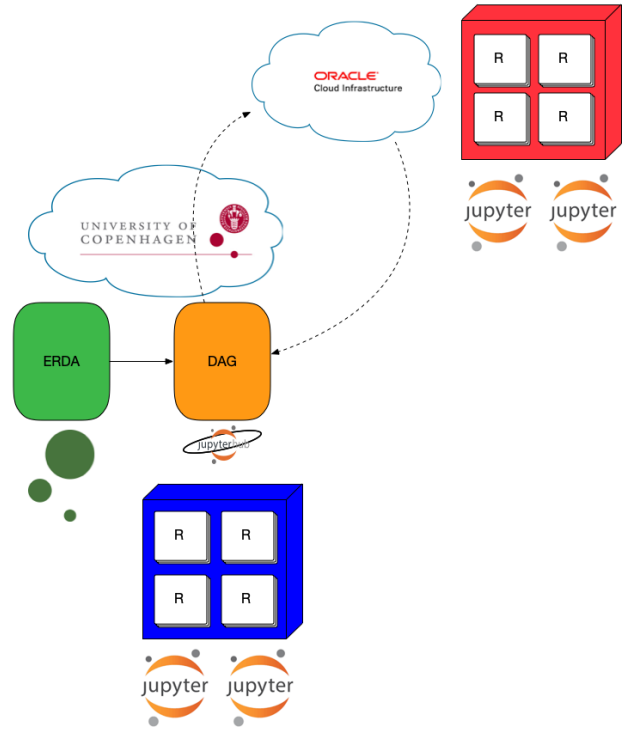


Figure 6: Figure caption for second of two sided figures.



Figure 7: 1907 Franklin Model D roadster.

```

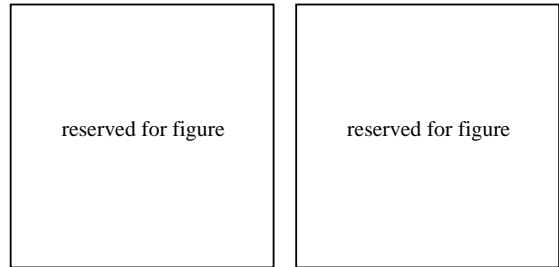
\includegraphics[width=1\columnwidth]
    {img/name.eps}
\begin{center}$ (a) $\end{center}
\end{minipage}
\hspace{0.04\columnwidth}
\begin{minipage}[b]{0.47\columnwidth}
\includegraphics[width=1\columnwidth]
    {img/name.eps}
\begin{center}$ (b) $\end{center}
\end{minipage}
\end{center}

```

```

\caption{\label{fig5}A caption of figure
of two parts, $(a)$ and $(b)$}
\end{figure}

```



(a)

(b)

Figure 8: A caption of figure of two parts, (a) and (b).

4.5.1 Colour Illustrations and Resolution

Please produce your figures electronically, and integrate them into your document and zip file.

You are free to use colour illustrations.

Check that in line drawings, lines are not interrupted and have a constant width. Grids and details within the figures must be clearly readable and may not be written one on top of the other.



Figure 9: Mrs. F. S. Bliven in auto (circa 1908).

Figure resolution should be at least 300 dpi (we prefer 600 dpi).

Don't use the lossy compressed images (e.g., JPEG).

5 CITATIONS AND BIBLIOGRAPHIES

References and citations should follow the APA (Author, date) System Convention. Besides that, all references should be cited in the text. No numbers with or without brackets should be used to list the references.

References should be cited in the text by placing sequential numbers in brackets using `\cite` (for example, (Semerikov et al., 2000), (Kovalchuk et al., 2023; Morkun et al., 2018; Editor, 2007)), and `\citet` (for example, Spirin (Spirin, 2005), Osadcha and Osadchyi (Osadcha and Osadchyi, 2020), Vakaliuk et al. (Vakaliuk et al., 2021)). A complete reference should provide enough information to locate the article. The terms *loc. cit.* and *ibid.* should not be used.

Unpublished conferences and reports should generally not be included in the reference list and articles in the course of publication should be entered only if the journal of publication is known.

A thesis submitted for a higher degree may be included in the reference list if it has not been superseded by a published paper and is available through a library; sufficient information should be given for it to be traced readily:

```
@phdthesis{Teplytskyi2000:diss,
author = "I. O. Teplytskyi",
school = "Kryvyi Rih State
          Pedagogical University",
year = 2000,
title={Rozvytok tvorchykh zdbnostei
shkoliariv zasobamy kompiuternoho
modeliuvannia [{D}evelopment of pupils'
creative capacities by means of
computer simulation]},
type={The thesis for the degree of candidate
of pedagogical sciences on speciality
13.00.02 { theory and methods of
teaching informatics},
note={\url{
https://doi.org/10.31812/0564/1599}
}
}
```

5.1 Formatting Reference Lists

The use of Bib_T_EX for the preparation and formatting of one's references is **mandatory**.

The bibliography is included in your source document with this command, placed just before the

```
\end{document} command:
\bibliographystyle{apalike}
{\small
  \bibliography{bibfile}
}
```

where “bibfile” is the name, without the “.bib” suffix, of the BibTeX file.

5.2 Bibliographic Data Fields

5.2.1 References to Printed Journal Articles

A normal reference to a journal article is constructed as follows:

```
@article{Fedorenko_Havrysh_Velychko_2022,
  title={Features of using Moodle tools in the
    training of future social workers}},
  volume={7},
  journal={Educational Dimension},
  author={Fedorenko, Olena H. and
    Havrysh, Olena H. and
    Velychko, Vladyslav Ye.},
  year={2022},
  pages={261{281}},
  note={\url{https://doi.org/10.31812/educdim.4714"}}
```

5.2.2 References to Books, Conference Proceedings and Reports

References to books, proceedings and reports are similar to journal references:

- Complete book

```
@book{Morkun,
  author = {Vladimir Morkun and
    Serhiy Semerikov and
    Svitlana Hryshchenko},
  title = {Methods of Using Geoinformation
    Technologies in Mining
    Engineers' Training},
  year = {2018},
  publisher = {Cambridge Scholars
    Publishing},
  address = {Newcastle upon Tyne},
  note={\url{https://tinyurl.com/ye27sf7d}}
```

- Book in series

```
@book{Dirac:1958,
  author = {P. A. M. Dirac},
  title = {The Principles
    of Quantum Mechanics},
  series = {The International Series
    of Monographs on Physics},
  number = {27},
  edition = {4},
  publisher = {Clarendon Press},
  address = {Oxford},
```

```
  year = {1967}
}
```

- Book chapter or some part of book

```
@inbook{Humboldt:ch1,
  publisher = {Cambridge University Press},
  year = {1999},
  title = {{On Language: On the
    Diversity of Human Language
    Construction and its
    Influence on the Mental
    Development of the Human
    Species}},
  series={{Cambridge Texts in the
    History of Philosophy}},
  author = {Wilhelm {Von Humboldt}},
  editor={Michael Losonsky},
  chapter={1},
  pages={11-22},
}
```

(You can also cite any part of book using `\citep[pp.~110--113]{Dirac:1958}` or `\citep[chapter 4, pp.~98--105]{Dirac:1958}`).

- Authored chapter

```
@Incollection{Shramko2016,
  author="Shramko, Yaroslav",
  editor="Bimb{\`o}, Katalin",
  title={{Truth, Falsehood, Information
    and Beyond: The American Plan
    Generalized}},
  bookTitle={{J. Michael Dunn on
    Information Based Logics}},
  year="2016",
  publisher="Springer International
    Publishing",
  address="Cham",
  pages="191--212",
  isbn="978-3-319-29300-4",
  note={\url
    "https://doi.org/10.1007/978-3-319-29300-4_11"},
}
```

- Article in conference proceedings

```
@incollection{Tkachuk2021,
  author="Tkachuk, Viktoriia and
    Yechkalo, Yuliia and
    Semerikov, Serhiy and
    Kislova, Maria and
    Hladyr, Yana",
  editor="Bollin, Andreas and Ermolayev,
    Vadim and Mayr, Heinrich C. and
    Nikitchenko, Mykola and
    Spivakovsky, Aleksander and
    Tkachuk, Mykola and Yakovyna,
    Vitaliy and Zholtkevych, Grygoriy",
  title="{Using Mobile ICT for Online
    Learning During COVID-19 Lockdown}",
  note={\url
    "https://doi.org/10.1007/978-3-030-77592-6_3"},
  booktitle="Information and Communication
```

```

Technologies in Education,
Research, and Industrial
Applications",
year="2021",
publisher="Springer
International Publishing",
address="Cham",
pages="46--67",
isbn="978-3-030-77592-6"
}
or @conference or @inproceedings.

```

5.2.3 A Case of Non-Latin Sources

When non-Latin alphabet publication cited, the title of the publication (e.g., book or article) in the original language need to be both transliterated and translated in English. Other bibliographic components (including authors, publisher, address and journal name) are transliterated only (Semerikov et al., 2000):

```

@article{IA2000,
author = {Semerikov, S. O. and Soloviov, V. M.
and Teplytskyi, I. O.},
year=2000,
title={Instrumentalne zabezpechennia kursu
kompiuternoho modeliuvannia
[{{I}}nstrumental support of the
course of computer modeling]},
journal= {Kompiuter u shkoli i simi},
number=4,
pages={28-31},
note={\url{https://lib.iitta.gov.ua/704129/}}
}

```

5.2.4 The ‘apalike’ Bibliography Style in the Web Epoch

The ‘apalike’ bibliography style has been around more or less unchanged since 1988. Back then, web pages didn’t exist yet – at least not as items that might be cited in bibliographies. The entry type @misc thus doesn’t recognize, and hence blissfully ignores, fields named url, doi, etc.

A workaround involves encase the URL string in the note (howpublished) field in a \url{...} wrapper.

Separately, you should also encase the contents of the author and title fields in pairs of curly braces. This prevents BibT_EX from misinterpreting the author as a person and lowercasing the words in the title field:

```

@misc{ANCS_CS-SSH,
author={{Academy of Cognitive
and Natural Sciences}},
title={{ACNS Conference Series:
Social Sciences and Humanities}},
year={2022},
note={\url{https://acnsoci.org/cs-ssh/}},
}

```

DOI persistent links should be indicated the same way:

```

note={\url
{https://doi.org/10.55056/cs-ssh/1/01001}
}

```

Article numbers should be indicated as pages.

Complete list of entry types which allowed by ‘apalike’ bibliography style:

```

article
book
booklet
inbook
incollection
inproceedings (conference)
manual
mastersthesis
misc
phdthesis
proceedings
techreport
unpublished

```

Complete list of entries which allowed by ‘apalike’ bibliography style:

```

address
author
booktitle
chapter
edition
editor
howpublished
institution
journal
key
note
number
organization
pages
publisher
school
series
title
type
volume
year

```

Any other entry types and entries will be ignored.

5.3 Best Practices: Export Citations into a BibT_EX File

A good way to make your bibliography is to exclude manual creation bibliography items whenever it possible. We strongly recommend to use the “Cite” (export) facilities to BibT_EX which available in the most

How to Cite

Osadchyl, V. V., Valko, N. V., & Kushnir, N. O. (2020). DESIGN OF THE EDUCATIONAL ENVIRONMENT FOR STEM-ORIENTED LEARNING. *Information Technologies and Learning Tools*, 75(1), 316-330. <https://doi.org/10.33407/itlv75i1.3213>

More Citation Formats

- ACM
- ACS
- APA
- ABNT
- Chicago
- Harvard
- IEEE
- MLA
- Turabian
- Vancouver

Download Citation

- Endnote/Zotero/Mendeley (RIS)
- BibTeX

(a)

Export Citations

BibTeX

```
@article{10.1145/3178315.3178327,
  author = {Lee, Amanda},
  title = {One-Time Contributors to FLOSS: Surveys and Data Analysis},
  year = {2018},
  issue_date = {January 2018},
  publisher = {Association for Computing Machinery},
  address = {New York, NY, USA},
  volume = {43},
  number = {1},
  issn = {0163-5948},
  url = {https://doi.org/10.1145/3178315.3178327},
  doi = {10.1145/3178315.3178327}}
```

Author: Amanda

ACM SIGSOFT Software Engineering Notes, Volume 43, Issue 1 • January 2018 • pp 1-6 • <https://doi.org/10.1145/3178315.3178327>

(b)

Export document settings

Select your method of export

MENDELEY
 EXLIBRIS RefWorks
 RIS Format EndNote, Reference Manager
 CSV Excel
 BibTeX

What information do you want to export?

<input type="checkbox"/> Citation information	<input type="checkbox"/> Bibliographical information
<input checked="" type="checkbox"/> Author(s)	<input type="checkbox"/> Affiliations
<input type="checkbox"/> Author(s) ID	<input type="checkbox"/> Serial identifiers (e.g. ISSN)
<input checked="" type="checkbox"/> Document title	<input type="checkbox"/> PubMed ID
<input checked="" type="checkbox"/> Year	<input checked="" type="checkbox"/> Publisher
<input type="checkbox"/> EID	<input checked="" type="checkbox"/> Editor(s)
<input checked="" type="checkbox"/> Source title	<input type="checkbox"/> Language of original document
<input type="checkbox"/> volume, issue, pages	<input type="checkbox"/> Correspondence address
<input type="checkbox"/> Citation count	<input type="checkbox"/> Abbreviated source title
<input type="checkbox"/> Source & document type	
<input type="checkbox"/> Publication Stage	
<input type="checkbox"/> DOI	
<input type="checkbox"/> Open Access	

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  title={The nature of HT V/sub t/ shift in NROM memory transistors},
  year={2006},
  volume={53},
  number={2},
  pages={304-313},
  doi={10.1109/TED.2005.862236}}
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Abstract: Physical mechanisms of V/sub t/ shift in NROM (micro FLASH) memory transistors microFLASH memory is the trademark of Tower Semiconductor Ltd. microFLASH is based on the NROM technology. NROM is the trademark of Saifun Semiconductor Ltd. after cycling are considered. Computer simulation is combined with analytical description of kinetics of "fast" V/sub t/ shift after cycling. The distinguishing feature of the developed model is its consistency with the positions of trapped charges obtained from charge pumping measurements and account for Coulomb correlation effects in the dynamics of injected charges in ONO. Accumulation of residual electrons and holes in the injection region and electrons trapped far from the drain is

(d)

Decision Making: Algorithms and Abilities

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THE CLOUD TECHNOLOGIES OF LEARNING: ORIGIN

By: Markova, OI (Markova, Oksana M.)¹; Semerikov, SO (Semerikov, Serhiy O.)²; Striuk, AM (Striuk, Andrii M.)³

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INFORMATION TECHNOLOGIES AND LEARNING TOOLS

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Abstract

The research goal is to investigate the evolution of the concept of utility computing in the works of foreign researchers in the years 1959-1966. First the A. O. Mann's results and expanded overview of the D. F. Parkhill's results on the concept of computer (information) utility were introduced in the domestic scientific circulation. Functionally identity of the computer utility and cloud computing concepts was proved, as well as refined the primary sources of cloud service models. There was proposed the interpretation of the "cloud technologies of learning" concept. Continuity of the development of cloud technologies over the past 50 years and their relationship with the development of ICT in general was concluded. The research results make it possible to determine the prospects of the development of cloud computing in general and cloud technologies of learning in particular.

Keywords

Author Keywords: computer utility; utility computing; cloud computing; cloud technologies of learning

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A lot of citations with `\cite:` (Shramko and Rossman, 2002; Zhaldak, 1964; Kiv et al., 1995; Shramko and Wansing, 2012; Descartes, 2014; Plato, 2004; Teplytskyi, 2000; Zhaldak, 2021; Shramko, 1999, 2016; Puu and Sushko, 2006; Russell, 1947; Koryakova and Epimakhov, 2007; Semerikov et al., 2021; Trius et al., 2004; Konoplya, 2002; Morkun et al., 2014; Vlasenko et al., 2021; Kalitkin and Kuz'mina, 1975; Haveman and Gualtieri, 2016; Kerley, 2003; Rutberg et al., 2004; Sutherland, 1968; Von Humboldt, 1999; Dirac, 1967; Tkachuk et al., 2021; Goncharov et al., 1966; Fedorenko et al., 2022).

Same citations with `\citet:` Shramko and Rossman (Shramko and Rossman, 2002), Zhaldak (Zhaldak, 1964), Kiv et al. (Kiv et al., 1995), Shramko and Wansing (Shramko and Wansing, 2012), Descartes

(Descartes, 2014), Plato (Plato, 2004), Teplytskyi (Teplytskyi, 2000), Zhaldak (Zhaldak, 2021), Shramko (Shramko, 1999, 2016), Puu and Sushko (Puu and Sushko, 2006), Russell (Russell, 1947), Koryakova and Epimakhov (Koryakova and Epimakhov, 2007), Semerikov et al. (Semerikov et al., 2021), Trius et al. (Trius et al., 2004), Konoplya (Konoplya, 2002), Morkun et al. (Morkun et al., 2014), Vlasenko et al. (Vlasenko et al., 2021), Kalitkin and Kuz'mina (Kalitkin and Kuz'mina, 1975), Haveman and Gualtieri (Haveman and Gualtieri, 2016), Kerley (Kerley, 2003), Rutberg et al. (Rutberg et al., 2004), Sutherland (Sutherland, 1968), Von Humboldt (Von Humboldt, 1999), Dirac (Dirac, 1967), Tkachuk et al. (Tkachuk et al., 2021), Goncharov et al. (Goncharov et al., 1966), Fedorenko et al. (Fedorenko et al., 2022).

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