





# ICHTML 2024 Authors' Instructions

Serhiy Semerikov<sup>1,2,3,4,5</sup><sup>a</sup>, Vita Hamaniuk<sup>1,5</sup><sup>b</sup>, Pavlo Nechypurenko<sup>1,5</sup><sup>c</sup>  
and Yaroslav Shramko<sup>1</sup><sup>d</sup>

<sup>1</sup>Kryvyi Rih State Pedagogical University, 54 Gagarin Ave., Kryvyi Rih, 50086, Ukraine

<sup>2</sup>Institute for Digitalisation of Education of the NAES of Ukraine, 9 M. Berlynskoho Str., Kyiv, 04060, Ukraine

<sup>3</sup>Zhytomyr Polytechnic State University, 103 Chudnivska Str., Zhytomyr, 10005, Ukraine

<sup>4</sup>Kryvyi Rih National University, 11 Vitalii Matusevych Str., Kryvyi Rih, 50027, Ukraine

<sup>5</sup>Academy of Cognitive and Natural Sciences, 54 Gagarin Ave., Kryvyi Rih, 50086, Ukraine  
{semerikov, vitana65, acinonyxleo}@gmail.com, shramko@rocketmail.com

**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<sup>A</sup>T<sub>E</sub>X

You can freely use any L<sup>A</sup>T<sub>E</sub>X compatible typesetting system (e.g., TeXStudio + TexLive is a good choice for any operating system), but if you do not want to be involved in the L<sup>A</sup>T<sub>E</sub>X system administration, we propose to use a cloud-based L<sup>A</sup>T<sub>E</sub>X editors like Overleaf (<https://www.overleaf.com>). After registering at [www.overleaf.com](https://www.overleaf.com), you can start your paper revision with this template using the ‘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 on the ‘Download PDF’ icon or use the ‘Menu’ to download both L<sup>A</sup>T<sub>E</sub>X source files (ZIP) and camera-ready version (PDF) (figure 3).

The most-often recommended tutorial is the ‘(Not So) Short Guide to L<sup>A</sup>T<sub>E</sub>X2 $\epsilon$ ’ (<https://www.ctan.org/tex-archive/info/lshort/>).

## 2 ON THE TEMPLATE

SCITEPRESS proceedings article template provides a consistent L<sup>A</sup>T<sub>E</sub>X 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 valuable guide to the process of preparing your work for publication.

The template is composed of a set of 9 files in the following two groups:

**Group 1.** To format your paper, you will need to copy into your working directory, but NOT edit the following seven 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 structure in “example.tex”. The title and subtitle must be in initial

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

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

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

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

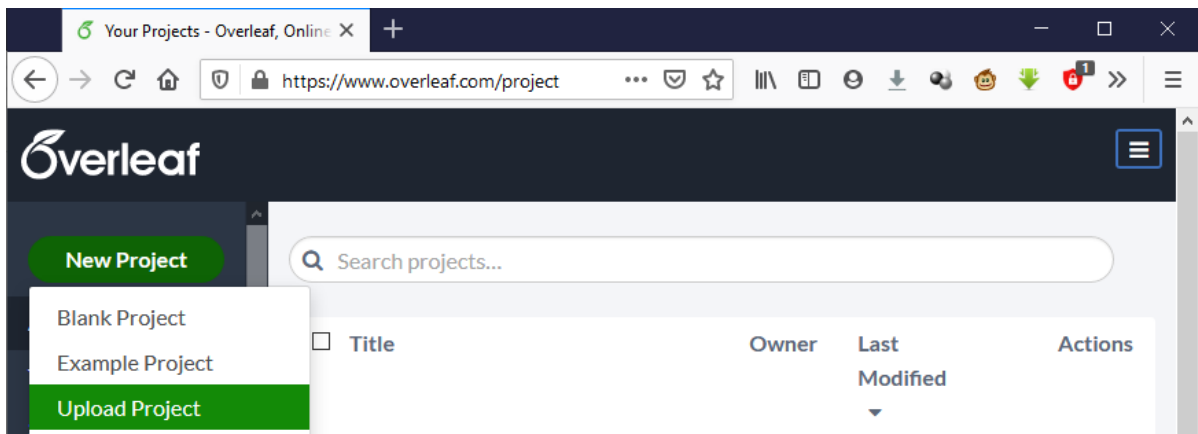


Figure 1: How to upload your project to Overleaf.

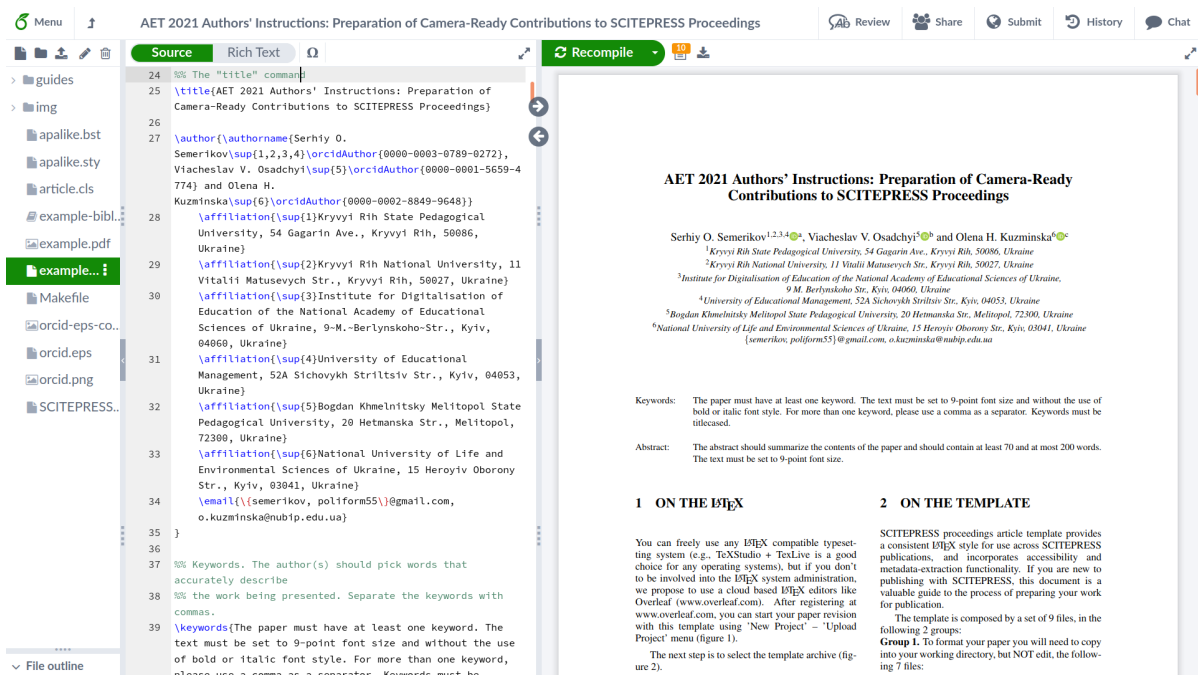


Figure 2: Overleaf, online  $\text{\LaTeX}$  editor.

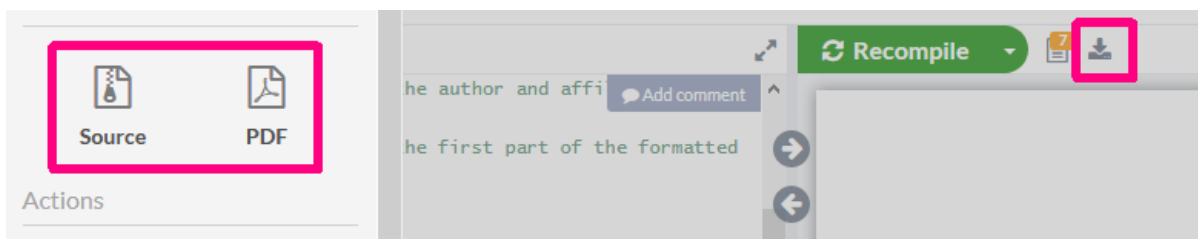


Figure 3: How to download your project from Overleaf.

letters capitalized (titlecased). The title and subtitle are separated by adding a colon “:” just before the subtitle begins. In the title or subtitle, prepositions like “is”, “or”, “then” 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' ORCIDs 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 of up to 200 words. The sentence must end with a period.

At the end of the 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 in the 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's first word.

## 4.1 Sectioning Commands

Your work should use standard L<sup>A</sup>T<sub>E</sub>X 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 in initial letters capitalized (title cased):

```
\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 is typically the top of the page nearest their initial citation. To ensure this proper “floating” placement of tables, use the environment `table` to enclose the table's contents and caption. The table's contents must go in the `tabular` environment to be appropriately aligned 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 centred 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 many examples at *Overleaf documentation on tables* (<https://www.overleaf.com/learn/latex/Tables>).

### 4.3 Algorithms and Listings

Algorithms and listings captions should have a font size of 9 points, 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 centred, and if they have more than one line, they should be set to justify.

#### 4.3.1 Program Code

Program listing or program commands in the 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 is discussed in the following 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 helpful 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 symbols and structures, from  $\alpha$  to  $\omega$ ; this section will 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 inline math style; it 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 centred horizontally – is produced by the `equation` environment.

Table 3: Frequency of special characters.

Non-English or Math	Frequency	Comments
Ø	1 in 1,000	For Swedish names
$\pi$	1 in 5	Common in math
\$	4 in 5	Used in business
$\Psi_1^2$	1 in 40,000	Unexplained usage

The `displaymath` environment (or `equation*` with `amsmath` package) produces an unnumbered display equation.

Again, in either environment, you can use any of the symbols and structures available in  $\text{\LaTeX}$ ; 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 will 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}
```

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

to demonstrate  $\text{\LaTeX}$ 's able handling of numbering.

Usually, equations should be centred and numbered with the number on the right-hand side. (You can find 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 the 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 at the end.

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

As much lettering as possible should be removed from the figure 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 many 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 fit comfortably like this, as it saves space. Sometimes, 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 a fixed position in text, use the 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



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

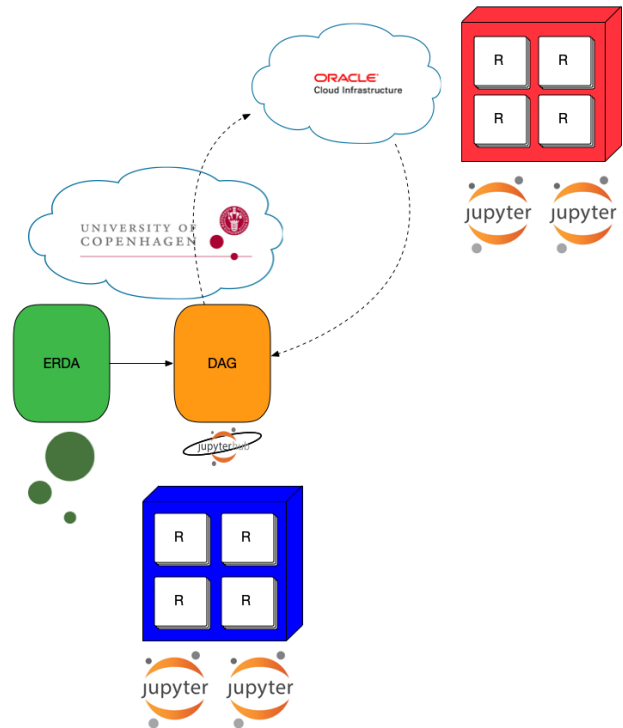


Figure 6: Figure caption for second of two-sided figures.



Figure 7: 1907 Franklin Model D roadster.

not have separate captions (see figure 8).

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

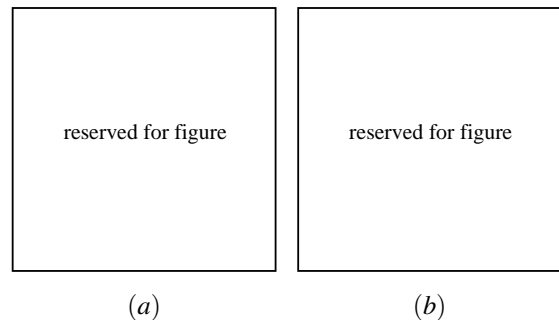


Figure 8: A caption of figure of two parts, (a) and (b).

#### 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.





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

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

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

Do not use the lossy compressed images (e.g., JPEG).

erally not be included in the reference list, and articles in 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 a published paper has not superseded it and is available through a library; sufficient information should be given for it to be traced readily:

## 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 (2005), Osadcha and Osadchyi (2020), 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 gen-

```
@phdthesis{Teplytskyi2000:diss,
  author = "I. O. Teplytskyi",
  school = "Kryvyi Rih State
    Pedagogical University",
  year = 2000,
  title={Rozvytok tvorchykh zdibnostei
    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<sub>TEX</sub> 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 Bib<sub>TEX</sub> 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 the book

```
@inbook{Humboldt:chl,
  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 a non-Latin alphabet publication is cited, the title (e.g., book or article) in the original language must be transliterated and translated into 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 did not exist yet – at least not as items that might be cited in bibliographies. The entry type @misc thus does not recognize, and hence blissfully ignores, fields named url, doi, etc.

A workaround involves encasing 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 BibTeX from misinterpreting the author as a person and lowercasing the words in the title field:

```
@misc{ANCS_CSSH,
```

```

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

```

DOI persistent links should be indicated in 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 allowed by ‘apalike’ bibliography style:

```

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

```

Complete list of entries 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 BibTeX File

A good way to make a bibliography is to exclude manual creation bibliography items whenever possible. We strongly recommend to use the “Cite” (export) facilities to BibTeX which available in the most of OJS installations (figure 10a), ACM Digital Library (figure 10b), Scopus (figure 10c), IEEE Xplore (figure 10d), ScienceDirect (figure 10e), Web of Science (figure 10f) etc.

### 5.4 Some Examples

A paginated journal article (Kovalchuk et al., 2023), an enumerated journal article (Kavetsky et al., 2021; Nechypurenko et al., 2022), a monograph (whole book) (Morkun et al., 2018), a monograph/whole book in a series (Harel, 1979), a divisible book such as an anthology or compilation (Editor, 2007) followed by the same example; however we only output the series if the volume number is given (Editor, 2008) (so series should not be present since it has no volume number); a chapter in a divisible book (Spector, 1990), a chapter in a divisible book in a series (Douglass et al., 1998), a multi-volume work as book (Knuth, 1997), an article in a proceedings (of a conference, symposium, workshop for example) (paginated proceedings article) (Ander, 1979; Makhachashvili and Semenist, 2021), a proceedings article with all possible elements (Smith, 2010), an informally published work (Harel, 1978), a doctoral dissertation (Clarkson, 1985), a master’s thesis: (Anisi, 2003), an online document / world wide web resource (Thornburg, 2001; Ablamowicz and Fauser, 2007; Poker-Edge.Com, 2006), a video game (Case 1) (Obama, 2008) and (Case 2) (Novak, 2003) and (Lee, 2005) and (Case 3) a patent (Scientist, 2009), work accepted for publication (Rous, 2023). Multi-volume works as books (Hörmander, 1985b) and (Hörmander, 1985a). A couple of citations with DOIs: (IEEE, 2004; Kirschmer and Voight, 2010). Online citations: (TUG, 2017; Thornburg, 2001; R Core Team, 2019; Anzaroot and McCallum, 2013).

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; Ker-

ley, 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 (2002), Zhaldak (1964), Kiv et al. (1995), Shramko and Wansing (2012), Descartes (2014), Plato (2004), Teplytskyi (2000), Zhaldak (2021), Shramko (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).

## ACKNOWLEDGEMENTS

Identification of funding sources and other support, and thanks to individuals and groups that assisted in the research and the preparation of the work should be included in an acknowledgement section, which is placed just before the reference section without numbering.

To do so, please use the following command:

```
\section*{\uppercase{Acknowledgements}}
\noindent We acknowledge Covidpocalypse
2019 for making the long-awaited
completion of this paper possible.
```

## REFERENCES

- Ablamowicz, R. and Fauser, B. (2007). CLIFFORD: a Maple 11 Package for Clifford Algebra Computations, version 11. <http://math.tntech.edu/rafael/cliff11/index.html>.
- Ander, S. (1979). Predicate path expressions. In Rosen, B. K., editor, *Proceedings of the 6th. ACM SIGACT-SIGPLAN symposium on Principles of Programming Languages*, POPL ’79, pages 226–236, New York, NY. ACM Press. <https://doi.org/10.1145/567752.567774>.
- Anisi, D. A. (2003). Optimal Motion Control of a Ground Vehicle. Master’s thesis, Royal Institute of Technology (KTH), Stockholm, Sweden. [https://people.kth.se/~anisi/articles/masters\\_thesis.html](https://people.kth.se/~anisi/articles/masters_thesis.html).
- Anzaroot, S. and McCallum, A. (2013). UMass citation field extraction dataset. <http://www.iesl.cs.umass.edu/data/data-umasscitationfield>.
- Clarkson, K. L. (1985). *Algorithms for Closest-Point Problems (Computational Geometry)*. PhD thesis, Stanford University, Palo Alto, CA. <https://doi.org/10.5555/911891>.

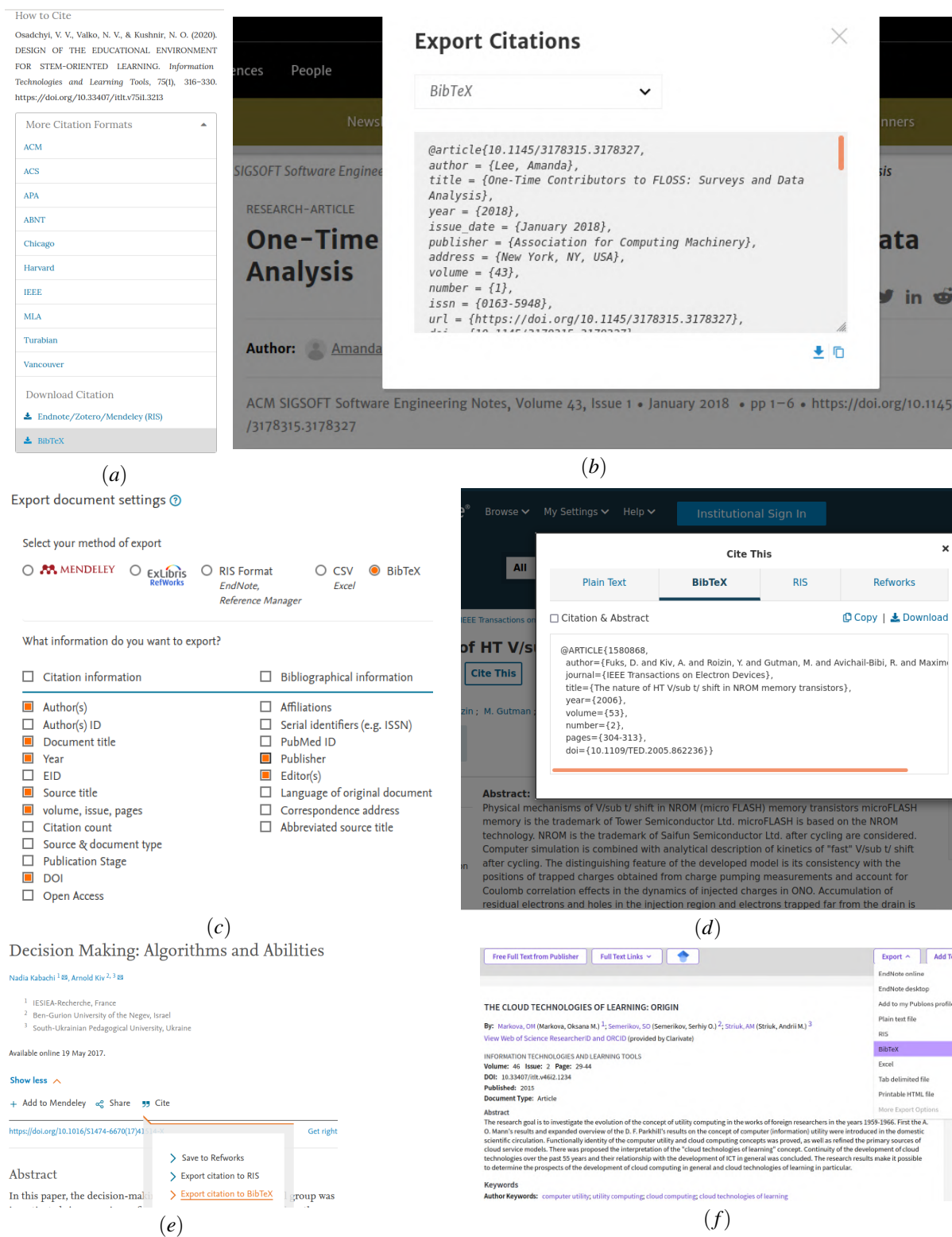


Figure 10: Export citations into a BibTeX file.

- Descartes, R. (2014). The birth of peace. *Common Knowledge*, 20(2):371–386. <https://doi.org/10.1215/0961754X-2423052>.
- Dirac, P. A. M. (1967). *The Principles of Quantum Mechanics*. Number 27 in The International Series of Monographs on Physics. Clarendon Press, Oxford, 4 edition.
- Douglass, B. P., Harel, D., and Trakhtenbrot, M. B. (1998). Statecharts in use: structured analysis and object-orientation. In Rozenberg, G. and Vaandrager, F. W., editors, *Lectures on Embedded Systems*, volume 1494 of *Lecture Notes in Computer Science*, pages 368–394. Springer-Verlag, London. [https://doi.org/10.1007/3-540-65193-4\\_29](https://doi.org/10.1007/3-540-65193-4_29).
- Editor, I., editor (2007). *The title of book one*, volume 9 of *The name of the series one*, chapter 3. University of Chicago Press, Chicago, 1st. edition. <https://doi.org/10.1007/3-540-09237-4>.
- Editor, I., editor (2008). *The title of book two*, chapter 100. The name of the series two. University of Chicago Press, Chicago, 2nd. edition. <https://doi.org/10.1007/3-540-09237-4>.
- Fedorenko, O. H., Havrysh, O. H., and Velychko, V. Y. (2022). Features of using Moodle tools in the training of future social workers. *Educational Dimension*, 7:261–281. <https://doi.org/10.31812/educdim.4714>.
- Goncharov, I. G., Davidkovich, A. S., Polishchuk, A. P., and Sevriuk, L. G. (1966). Avtomaticheskoe regulirovanie zagruzki okatyshей na obzhigovuiu mashinu [Automatic regulation of the loading of pellets on the roasting machine]. *Gornyj Zhurnal*, (9):52–55. [https://jglobal.jst.go.jp/detail?JGLOBAL\\_ID=201602008610939390](https://jglobal.jst.go.jp/detail?JGLOBAL_ID=201602008610939390).
- Harel, D. (1978). Logics of programs: Axiomatics and descriptive power. MIT Research Lab Technical Report TR-200, Massachusetts Institute of Technology, Cambridge, MA.
- Harel, D. (1979). *First-Order Dynamic Logic*, volume 68 of *Lecture Notes in Computer Science*. Springer-Verlag, New York, NY. <https://doi.org/10.1007/3-540-09237-4>.
- Haveman, H. A. and Gualtieri, G. (2016). Institutional logics. <https://osf.io/preprints/socarxiv/3pv2k>.
- Hörmander, L. (1985a). *The analysis of linear partial differential operators. III*, volume 275 of *Grundlehren der Mathematischen Wissenschaften [Fundamental Principles of Mathematical Sciences]*. Springer-Verlag, Berlin, Germany. Pseudodifferential operators.
- Hörmander, L. (1985b). *The analysis of linear partial differential operators. IV*, volume 275 of *Grundlehren der Mathematischen Wissenschaften [Fundamental Principles of Mathematical Sciences]*. Springer-Verlag, Berlin, Germany. Fourier integral operators.
- IEEE (2004). IEEE TCSC Executive Committee. In *Proceedings of the IEEE International Conference on Web Services, ICWS '04*, pages 21–22, Washington, DC, USA. IEEE Computer Society. <https://doi.org/10.1109/ICWS.2004.64>.
- Kalitkin, N. N. and Kuz'mina, L. V. (1975). Tables of thermodynamic functions of matter at high concentration of energy. Preprint 35, Institute of Applied Mathematics of the USSR Academy of Sciences, Moscow.
- Kavetskiy, T., Alipour, M., Smutok, O., Mushynska, O., Kiv, A., Fink, D., Farshchi, F., Ahmadian, E., and Hasanzadeh, M. (2021). Magneto-immunoassay of cancer biomarkers: Recent progress and challenges in biomedical analysis. *Microchemical Journal*, 167:106320. <https://doi.org/10.1016/j.microc.2021.106320>.
- Kerley, G. I. (2003). Equations of state for titanium and Ti6Al4V alloy. Report SAND 2003-3785, Sandia National Laboratories, Albuquerque, NM.
- Kirschmer, M. and Voight, J. (2010). Algorithmic Enumeration of Ideal Classes for Quaternion Orders. *SIAM J. Comput.*, 39(5):1714–1747. <https://doi.org/10.1137/080734467>.
- Kiv, A. E., Molyako, V. A., Maloryan, V. L., Polozovskaya, I. A., and Iskanderova, Z. I. (1995). The creative thinking testing by using of testing problems based on different logical schemes. *Advances in Human Factors/Ergonomics*, 20(B):443–447. [https://doi.org/10.1016/S0921-2647\(06\)80256-X](https://doi.org/10.1016/S0921-2647(06)80256-X).
- Knuth, D. E. (1997). *The Art of Computer Programming*, volume 1: Fundamental Algorithms. Addison Wesley Longman Publishing Co., Inc., 3rd edition.
- Konoplya, R. A. (2002). Quasinormal modes of a small Schwarzschild - Anti-de Sitter black hole. *Physical Review D*, 66(4):044009. <https://doi.org/10.1103/PhysRevD.66.044009>.
- Koryakova, L. and Epimakhov, A. (2007). *The Urals and Western Siberia in the Bronze and Iron Ages*. Cambridge University Press. <https://doi.org/10.1017/CBO9780511618451>.
- Kovalchuk, V. I., Maslich, S. V., and Movchan, L. H. (2023). Digitalization of vocational education under crisis conditions. *Educational Technology Quarterly*, 2023(1):1–17. <https://doi.org/10.55056/etq.49>.
- Lee, N. (2005). Interview with Bill Kinder: January 13, 2005. *Comput. Entertain.*, 3(1). <https://doi.org/10.1145/1057270.1057278>.
- Makhachashvili, R. and Semenist, I. (2021). Digital Competencies and Soft Skills for Final Qualification Assessment: Case Study of Students of Foreign Languages Programs in India. In *Proceedings of the 7th International Conference on Frontiers of Educational Technologies, ICFET '21*, page 21–30, New York, NY, USA. Association for Computing Machinery. <https://doi.org/10.1145/3473141.3473222>.
- Morkun, V., Semerikov, S., and Hryshchenko, S. (2014). Environmental competency of future mining engineers. *Metallurgical and Mining Industry*, 6(4):4–7. <https://tinyurl.com/58mc65s9>.
- Morkun, V., Semerikov, S., and Hryshchenko, S. (2018). *Methods of Using Geoinformation Technologies in Mining Engineers' Training*. Cambridge Scholars Publishing, Newcastle upon Tyne. <https://www.cambridgescholars.com/product/978-1-5275-1615-1>.
- Nechypurenko, P. P., Semerikov, S. O., Selivanova, T. V., and Shenayeva, T. O. (2022). How can the principles of learning be used to select the best ICT tools for

- computer-based chemistry instruction in high school? *Educational Dimension*, 7:188–241. <https://doi.org/10.31812/educdim.4738>.
- Novak, D. (2003). Solder man. In *ACM SIGGRAPH 2003 Video Review on Animation theater Program: Part I - Vol. 145 (July 27–27, 2003)*, page 4, New York, NY. ACM Press. <http://video.google.com/videoplay?docid=6528042696351994555>.
- Obama, B. (2008). A more perfect union. Video. <http://video.google.com/videoplay?docid=6528042696351994555>.
- Osadcha, K. P. and Osadchyi, V. V. (2020). The use of cloud computing technology in professional training of future programmers. *CEUR Workshop Proceedings*, 2879:155–164. <http://ceur-ws.org/Vol-2879/paper05.pdf>.
- Plato (2004). ‘Statue of Pan’. *Parnassus: Poetry in Review*, 28(1-4):123.
- Poker-Edge.Com (2006). Stats and analysis. <http://www.poker-edge.com/stats.php>.
- Puu, T. and Sushko, I. (2006). *Business cycle dynamics: Models and tools*. Springer Berlin Heidelberg. <https://doi.org/10.1007/3-540-32168-3>.
- R Core Team (2019). R: A Language and Environment for Statistical Computing. <https://www.R-project.org/>.
- Rous, B. (2023). The Enabling of Digital Libraries. *Digital Libraries*, 12(3). To appear.
- Russell, B. (1947). *History of Western Philosophy and its Connection with Political and Social Circumstances from the Earliest Times to the Present Day*. George Allen & Unwin Ltd, London. <https://archive.org/details/westernphilosoph035502mbp/page/2/mode/2up>.
- Rutberg, Ph. G., Safronov, A. A., and Shiryaev, V. N. (2004). Three-phase ac plasma generator. Patent RU 2231936, Ruspatent. [https://rusneb.ru/catalog/000224\\_000128\\_2002124491\\_20040410\\_A\\_RU/](https://rusneb.ru/catalog/000224_000128_2002124491_20040410_A_RU/).
- Scientist, J. (2009). The fountain of youth. Patent No. 12345, Filed July 1st., 2008, Issued Aug. 9th., 2009.
- Semerikov, S. O., Soloviov, V. M., and Teplytskyi, I. O. (2000). Instrumentalne zabezpechennia kursu kompiuternoho modeliuvannia [Instrumental support of the course of computer modeling]. *Kompiuter u shkoli i simi*, (4):28–31. <https://lib.iitta.gov.ua/704129/>.
- Semerikov, S. O., Teplytskyi, I. O., Soloviev, V. N., Hamaniuk, V. A., Ponomareva, N. S., Kolgatin, O. H., Kolgatina, L. S., Byelyavtseva, T. V., Amelina, S. M., and Tarasenko, R. O. (2021). Methodic quest: Reinventing the system. *Journal of Physics: Conference Series*, 1840(1):012036. <https://doi.org/10.1088/1742-6596/1840/1/012036>.
- Shramko, Y. (1999). *Intuitionismus und Relevanz*, volume 3 of *Logische Philosophie*. Logos-Verlag, Berlin.
- Shramko, Y. (2016). Truth, Falsehood, Information and Beyond: The American Plan Generalized. In Bimbó, K., editor, *J. Michael Dunn on Information Based Logics*, pages 191–212. Springer International Publishing, Cham. [https://doi.org/10.1007/978-3-319-29300-4\\_11](https://doi.org/10.1007/978-3-319-29300-4_11).
- Shramko, Y. and Rossman, V. (2002). Continental and analytical philosophy and intellectual multi-layerism - an interview with the philosopher Vadim Rossman. *Voprosy filosofii*, (11):106–123. [https://kdpu.edu.ua/shramko/files/2002\\_Voprosy\\_Filosofii\\_Dialog.pdf](https://kdpu.edu.ua/shramko/files/2002_Voprosy_Filosofii_Dialog.pdf).
- Shramko, Y. and Wansing, H. (2012). *Truth and falsehood: An inquiry into generalized logical values*. Springer Netherlands. <https://doi.org/10.1007/978-94-007-0907-2>.
- Smith, S. W. (2010). An experiment in bibliographic markup: Parsing metadata for XML export. In Smythe, R. N. and Noble, A., editors, *Proceedings of the 3rd. annual workshop on Librarians and Computers*, volume 3 of *LAC '10*, pages 422–431, Milan Italy. Paparazzi Press. <https://doi.org/99.0000/woot07-S422>.
- Spector, A. Z. (1990). Achieving application requirements. In Mullender, S., editor, *Distributed Systems*, pages 19–33. ACM Press, New York, NY, 2nd edition. <https://doi.org/10.1145/90417.90738>.
- Spirin, O. (2005). The Present-Day Tendencies of Teaching Informatics in Ukraine. In *From Computer Literacy to Informatics Fundamentals*, volume 3422 of *Lecture Notes in Computer Science*, pages 75–83, Berlin, Heidelberg. Springer Berlin Heidelberg. [https://doi.org/10.1007/978-3-540-31958-0\\_10](https://doi.org/10.1007/978-3-540-31958-0_10).
- Sutherland, I. E. (1968). A futures market in computer time. *Communications of the ACM*, 11(6):449–451. <https://doi.org/10.1145/363347.363396>.
- Teptytskyi, I. O. (2000). *Rozvytok tvorchykh zdibnos-tei shkoliariv zasobamy kompiuternoho modeliuvannia [Development of pupils' creative capacities by means of computer simulation]*. The thesis for the degree of candidate of pedagogical sciences on speciality 13.00.02 – theory and methods of teaching informatics, Kryvyi Rih State Pedagogical University. <http://elibrary.kdpu.edu.ua/handle/0564/1599>.
- Thornburg, H. (2001). Introduction to Bayesian Statistics. <http://ccrma.stanford.edu/~jos/bayes/bayes.html>.
- Tkachuk, V., Yechkalo, Y., Semerikov, S., Kislova, M., and Hladyr, Y. (2021). Using Mobile ICT for Online Learning During COVID-19 Lockdown. In Bollin, A., Ermolayev, V., Mayr, H. C., Nikitchenko, M., Spivakovsky, A., Tkachuk, M., Yakovyna, V., and Zholtkevych, G., editors, *Information and Communication Technologies in Education, Research, and Industrial Applications*, pages 46–67. Springer International Publishing, Cham. [https://doi.org/10.1007/978-3-030-77592-6\\_3](https://doi.org/10.1007/978-3-030-77592-6_3).
- Trius, Y. V., Solov'ev, V. N., Serdyuk, O. A., and Piskun, O. V. (2004). Regional educational portal as the main information resource for supporting continuous education and open learning. *Upravlyayushchie sistemy i mashiny*, (4):74–81.
- TUG (2017). Institutional members of the T<sub>E</sub>X Users Group. <http://www.tug.org/instmem.html>.
- Vakaliuk, T. A., Spirin, O. M., Lobanchykova, N. M., Martseva, L. A., Novitska, I. V., and Kontsedailo, V. V. (2021). Features of distance learning of cloud technologies for the organization educational process in quarantine. *Journal of Physics: Conference Series*,

1840(1):012051. <https://doi.org/10.1088/1742-6596/1840/1/012051>.

Vlasenko, K. V., Rovenska, O. G., Chumak, O. O., Lovianova, I. V., and Achkan, V. V. (2021). A Comprehensive Program of activities to develop sustainable core skills in novice scientists. *Journal of Physics: Conference Series*, 1946(1):012017. <https://doi.org/10.1088/1742-6596/1946/1/012017>.

Von Humboldt, W. (1999). *On Language: On the Diversity of Human Language Construction and its Influence on the Mental Development of the Human Species*, chapter 1, pages 11–22. Cambridge Texts in the History of Philosophy. Cambridge University Press.

Zhaldak, M. I. (1964). On the Chebyshev approximation of a continuous function by a polynomial with coefficients subject to limitation. *Dokl. Akad. Nauk SSSR*, 159(3):493–496. <http://mi.mathnet.ru/dan30377>.

Zhaldak, M. I. (2021). private communication.

## APPENDIX

If any, the appendix should appear directly after the references without numbering and not on a new page. Just add it before the “`\end{document}`” command at the conclusion of your source document:

```
\section*{\uppercase{Appendix}}
\noindent Text of appendix
```