

# REQUIREMENTS FOR A SCIENTIFIC ARTICLE

## GENERAL REQUIREMENTS

The text should be typed in text editor MS Word, the file must be saved in one of the formats: **\*.rtf, \*.doc, \*.docx**.

Page Format – **A4**, font – **Times New Roman**, font size – **14**.

### **Settings size:**

left – 30 mm;

right – 15 mm;

top – 20 mm;

bottom – 20 mm;

alignment – the width;

interval – 1;

paragraph – 1,25 cm.

## ACCEPTABLE STANDARDS FOR THE RESEARCHER

The percentage threshold of the **text originality** in terms of the main research results presentation, as well as the review of sources, excluding standardized academic clichés and bibliography, according to the results of textual coincidences:

The level of plagiarism cannot exceed **5%**;

Citation level – no more **25%**;

Uniqueness – from **85%**.

## PUBLISHING DESIGN OF ARTICLE'S STRUCTURAL ELEMENTS

**The paper submitted for publication should include:**

**1. UDC .....** (The Universal Decimal Classification).

**2. Name and surname (expanded, align on the left edge, clarendon, 12 pt, interval 1).**

### **Name and surname**

scientific degree, academic rank, position

work place (the name of the institution in the nominative case),

city, country

ORCID ID (реєстрація на сайті – <https://orcid.org/register>;

[email@email.com](mailto:email@email.com)

### **Name and surname** (for each co-author)

scientific degree, academic rank, position

work place (the name of the institution in the nominative case),

city, country

ORCID ID (реєстрація на сайті – <https://orcid.org/register>;

[email@email.com](mailto:email@email.com)

***ATTENTION!*** *The author's surnames and names are indicated as they are indicated in the identity documents (for example, Anna or Hanna)!*

Please note that in accordance with the editorial ethical requirements, the list of authors should indicate the persons who have made a significant contribution to the scientific research presented in the article. Academic status, position, or other seniority should not determine the order in the list; the order of authors should indicate the relative leadership and value of the researchers contribution to this scientific work.

**3. Title of the article (14 pt, clarendon, uppercase letters, paragraph without indents of the first line, centre alignment).**

**ATTENTION!** *The title of the article can contain no more than 10 words, it should reveal the essence of the problem to the general public of scientists. Avoid abbreviations.*

**4. Abstract.** The word "Abstract" (bold, 14 pt). Then in the same line – the text of the Abstract in the language of the text of the original article (if the article is in Ukrainian, the Abstract must be in Ukrainian, if the article is in English, the Abstract must be in English).

**The purpose** of the abstract is to draw readers' attention and get them interested in reading the whole article. Writing the abstract you should not use general phrases, as well as specify non-essential details and well-known statements. The methodology **description** is reasonable in case of its novelty or interest in terms of this work. The **advantages** in the abstract are given to new results and long-term data, important discoveries, that refute existing theories, as well as data that, in the opinion of the author, are of practical importance.

**Avoid** direct repeats of any piece of work. The **title** of the article should not be duplicated in the abstract text. Besides, you should avoid including tables, drawings, diagrams, and formulas, use the abbreviations and symbols except commonly used ones. If the abbreviations are introduced, then at first use it is necessary to give them a decoding.

The abstract should be **at least 1800 characters with spaces.**

**Keywords** (14 pt, bold). Next in the same line – keywords – from 5 to 10 terms, separated by the symbol ";" (The interval between the paragraphs "abstract" and "keywords" should be 12pt).

**Note** that *author data, title, keywords, and abstract* will be used as metadata for describing your article, so they should be as precise as possible to describe its content. To facilitate the search for this content on the Internet, please avoid overly generalized and complex wording, use only well-known abbreviations.

**THE TOTAL NUMBER OF PAGES IN AN ARTICLE SHOULD BE NOT LESS THAN 0.5 PRINTED SHEETS**

**5. The text of the article should contain the following required elements:**

### **INTRODUCTION / ВСТУП**

*problem statement, analysis of recent researches and publications*

**Statement of the problem / Постановка проблеми.** This part of the article describes the problem that the study deals with, in general terms, and its relevance to important scientific or practical tasks.

**Analysis of (major) recent research and publications / Аналіз (основних) останніх досліджень і публікацій.** This section analyzes works that initiate the solution of the identified problem and are based on the author. As a result of the analysis of sources, it is necessary to distinguish previously unresolved parts of the general problem, which is devoted to the article:

- ❖ references to sources are given in square brackets, for example [10];
- ❖ pages are separated by a comma [3, c. 35]: 3th source, 35th page;
- ❖ in the case of quoting several sources at the same time, it is necessary to list each number separately, in their own brackets, through a comma or a dash:
- ❖ [3], [4], [5], [6] або [3] – [6].

### **AIM AND TASKS / МЕТА ТА ЗАВДАННЯ**

**Purpose** of the article: a brief description of the study.

**The tasks** include a synthesis of data aimed at formulating a hypothesis or concept, a particular model, developing and selecting methods, and the conditions for conducting a research.

## THEORETICAL FRAMEWORK / ТЕОРЕТИЧНІ ОСНОВИ

This section presents concepts, approaches, principles, methods and other provisions on which the research is based directly. The main terms, concepts and categories, which are the basis of the research, are indicated.

## RESEARCH METHODS / МЕТОДИ ДОСЛІДЖЕННЯ

In this section, can be described a methodology for preparing and conducting a research, experimental basis, participants in the research or the objects under study. The characteristics, criteria, indicators and parameters on which they were evaluated are also mentioned. Names and registration numbers of scientific programs, projects and research works, within which the research was carried out, may be given.

## RESEARCH RESULTS / РЕЗУЛЬТАТИ ДОСЛІДЖЕННЯ

This section provides analysis and justification of scientific results. Recommended division into subsections and paragraphs.

### Formatting individual objects

This section provides analysis and justification of scientific results. Recommended division into subsections and paragraphs.

### Lists

Lists are executed as follows:

- ❖ numbered — «1.», «1)», «a)», «VI.»;
- ❖ marked — « - », «•».

### Formulas

Formulas and individual mathematical symbols and letters to indicate values in the text must be typed in the editor MS Equation, without framing and pouring. font – **Times New Roman, 14 pt**, center alignment, numbering – in parentheses, on the right:

$$h_w = \sqrt{\sum_{j=1}^{r_0} cit_j}, \quad (1)$$

where  $cit$  – number of citations,  $r_0$  – the largest index of the row  $j$ , such that  $r_w(j) \leq cit_j$

### Pictures

Illustrations (pictures, drawings, schematics, graphs, maps, screenshots), tables should be submitted immediately after the text, where they are mentioned for the first time, or on the next page. All pictures should have a link in the text. Illustrations are indicated by a word «Fig.», numbered sequentially in Arabic numerals, aligned in the centre. The names of illustrations are placed after their numbers. Illustrations are supplemented with explanatory data (under a picture signature). The name of the picture is written with a capital letter and must be placed in the middle of the sheet under the illustration, italics. After the name the point is not put. The quality of the illustrations should ensure their accurate reproduction. All objects in simple picture that are executed in **Word**, must be grouped together. Illustrations in the article may be black and white or colored, have the same style, filed in one of the formats (**jpeg, bmp, tif, gif**) with resolution no less than **300 dpi.**, if **ONE PICTURE** appears in the test, it does not have a number.

It is necessary to leave one blank line before and after the picture.

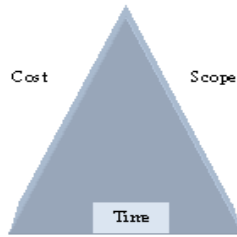


Fig. 1 Harold Kerzner triangle

### Таблиці

Tables are numbered, centred, indented. The signature «Table 1»: italics, alignment to the right. The format **the name of the table**: centred alignment, bold, position above the table. After the table it is necessary to leave one empty line. if **ONE TABLE** appears in the test, it does not have a number.

*Table 1*

*Таблиця 1*

**Analysis of definitions of project found in scientific literature [5; 6]**

**Аналіз визначень проекту виявлено в науковій літературі [5; 6]**

Source	Definition
Dictionary on project management	a certain task with certain initial data and established results (goals), which determine the way of its carrying out
Essential project management knowledge	an enterprise with initially set goals, the achievement of which means the completion of the project

### CONCLUSIONS / ВИСНОВКИ

This section briefly summarizes the results of the study outlined in the main part, as well as **necessarily** indicates the **directions for further research**.

**Prospects for further research in this direction / Перспективи подальших досліджень у цьому напрямі**

***IMPORTANTLY!* The list of used sources is made in accordance with the IEEE sty**

### REFERENCES / СПИСОК ВИКОРИСТАНИХ ДЖЕРЕЛ

Examples of the referencing in accordance with the style of the IEEE you can find at IEEE REFERENCE GUIDE (2018) – <https://www.ieee.org/documents/ieecitationref.pdf>

- ❖ sources in the list of references are numbered and arranged in the order of their mention in the text, the serial number is indicated in square brackets before the bibliographic description;
- ❖ we recommend to list the sources used with no more than 30 titles.

***IMPORTANTLY!* Sources are provided in the original language.**

### TRANSLATED AND TRANSLITERATED / ПЕРЕКЛАД, ТРАНСЛІТЕРАЦІЯ

For transliteration, we recommend the following online services:

from the Ukrainian language – <http://ukrlit.org/transliteratsiia>

from the Russian language – <http://translit-online.ru/>

**Example:**

- [1] Д. Леховицький, «Оцінка енергетичних спектрів відображення в імпульсних доплерівських метеорадіолокаторах», *Известия высших учебных заведений. Радиоэлектроника*, Т. 12, № 58, с. 3–30, 2015.
- [2] R. L. Myer, «Parametric oscillators and nonlinear materials», in *Nonlinear Optics*, P. G. Harper and B. S. Wherret, Eds. San Francisco, CA, USA: Academic, 1977, pp. 47–160.

**THE RULES OF THE BIBLIOGRAPHIC DESCRIPTION FOR THE REFERENCES**

If there are no more than six authors (editors, if the author is absent) in the publication, then the link should specify them all through the comma; the surname of the author is preceded by a comma and the word «and» is indicated (see bibliographic description of books with 1-6 authors).

If more than six authors (editors, if the author is absent) is specified in the publication, then it is necessary to specify the first author and «etc.» (see bibliographic description of books with 7 and more authors).

Names of journals, conferences, organizations, publishing houses, scientific institutions should be indicated in abridged form. The list of abbreviations can be found at the link:

**Ukrainian:** [http://lib.zsmu.edu.ua/upload/intext/dstu\\_3582\\_2013.pdf](http://lib.zsmu.edu.ua/upload/intext/dstu_3582_2013.pdf)

It is necessary to reduce the names of the months at the dates of circulation / publication, etc. (in accordance with the language rules of a particular country):

<https://www.ieee.org/documents/ieeecitationref.pdf>

	<b>Схема</b>	<b>Приклад</b>
<b>Книга (1–6 авторів)</b>	Ініціали 1 Прізвище 1, Ініціали 2 Прізвище 2, Ініціали 3 Прізвище 3, Ініціали 4 Прізвище 4, Ініціали 5 Прізвище 5, та Ініціали 6 Прізвище 6, <i>Назва книги</i> . Місто видання, Країна: Видавництво, Рік.	B. Klaus, and P. Horn, <i>Robot Vision</i> . Cambridge, MA, USA: MIT Press, 1986.  В. І. Дичка, та Г. Р. Положій, <i>Безпека життєдіяльності</i> . Київ, Україна: ЦУЛ, 2001.  V. I. Dychka, ta H. R. Polozhii, <i>Bezpeka zhytteidiialnosti</i> . Kyiv, Ukraina: TsUL, 2001.
<b>Книга (7 і більше авторів)</b>	Ініціали1 Прізвище1 та ін., <i>Назва книги</i> . Місто видання, Країна: Видавництво, Рік.	J. Nabyarimana et al., <i>Coethnicity</i> . New York, USA: Russell Sage Foundation, 2009.  Г. Прусова та ін., <i>Математика</i> . Київ, Україна: Освіта, 2004.
<b>Частина книги</b>	Ініціали Прізвище, "Назва частини книги", у <i>Назва книги</i> , Ініціали Прізвище редактора, Ред. Місто видання, Країна: Видавництво, Рік, номер глави, номер розділу, сторінковий інтервал частини книги	R. L. Myer, «Parametric oscillators and nonlinear materials», in <i>Nonlinear Optics</i> , P. G. Harper and B. S. Wherret, Eds. San Francisco, CA, USA: Academic, 1977, pp. 47–160.  Є. Балашова. «Стратегічні дослідження», у <i>Пріоритети інвестиційного забезпечення</i> , А. Сухорукова, Ред. Київ, Україна: Наукова думка, 2004, с. 5–39.

Стаття з журналу	Ініціали Прізвище, "Назва статті", Назва журналу, номер тому, номер журналу, сторінковий інтервал статті, Місяць. Рік. Doi*. *якщо є	U. Stummer, «Systemische Sklerose», <i>Rheuma plus</i> , vol. 14, no. 1, pp. 25–28, 2015.  Г. Масановець, та І. Сейфуліна, «Синтез та фізико-хімічна характеристика біядерних комплексів цинку», <i>Вісник Одеського національного університету. Хімія</i> , т. 17, № 2(42), с. 26–31, 2012.  L. Kuchina, "Thermogravimetric investigations of nasal gel with diltiazem", <i>Current issues in pharmacy and medicine: science and practice</i> , vol. 3, no. 3, 2015.
Стаття з журналу	Ініціали Прізвище, "Назва статті", Назва журналу, номер тому, номер журналу, сторінковий інтервал статті, Місяць. Рік. Doi*. *якщо є	X. Li, J. Vucic, V. Jungnickel, and J. Armstrong, «On the capacity of intensity-modulated direct-detection syst. and the inform. rate of ACO-OFDM for indoor optical wireless applications», <i>IEEE Trans. Commun</i> , vol. 60, no. 3, pp. 799–809, Mar. 2012. doi:10.1109/TCOMM.2012.020612.090300.  Д. Леховицький, «Оцінка енергетичних спектрів відображення в імпульсних доплерівських метеорадіолокаторах», <i>Известия высших учебных заведений. Радиоэлектроника</i> , т. 12, № 58, с. 3–30, 2015.
Автореферат або дисертація	Ініціали Прізвище винахідника, "Назва роботи", тип роботи з вказівкою наукового ступеня автора*, підрозділ*, наукова установа, Місто, Країна*, Рік. *не обов'язково	N. Kawasaki, «Parametric study of thermal and chemical nonequilibrium nozzle flow», M.S. thesis, Dept. Electron. Eng., Osaka Univ, Osaka, Japan, 1993.  М. Швачка, «Властивості розв'язків стохастичних диференціально-функціональних рівнянь з нескінченною післядією», дис. канд. наук, фак-т інформ., Чернів. нац. ун-т, Чернівці, 2014.
Матеріали конференцій	Ініціали Прізвище, "Назва доповіді", на Назва конференції, Місце проведення конференції*, Рік, сторінковий інтервал доповіді. *не обов'язково	S. P. Bingulac, «On the compatibility of adaptive controllers», in <i>Proc. 4th Annu. Allerton Conf. Circuit and Systems Theory</i> , New York, 1994, pp. 8–16.  Д. Абрамов, «Фінансові механізми забезпечення реалізації портфелю інноваційних проектів підприємств України», на <i>VI Всеукр. наук.-практ. конф. Сучасні підходи до управління підприємством</i> , Київ, 2015, с. 15–16.
Офіційний документ (онлайн)	Назва офіційного органу. номер з'їзду, номер сесії. (Дата затвердження). <i>Номер постанови, Назва.</i> [Електронний ресурс]. Доступно: site/path/file	U.S. House. 102nd Congress, 1st Session. (1991, Jan. 11). <i>H. Con. Res. 1, Sense of the Congress on Approval of Military Action</i> . [Online]. Available: LEXIS Library: GENFED File: BILLS.  Верховна Рада України. 2 сесія. (2015, Груд. 23). <i>Закон № 901-VIII, Про внесення змін до деяких законодавчих актів України у зв'язку з прийняттям Закону України «Про Національну поліцію»</i> . [Електронний ресурс]. Доступно: <a href="http://zakon0.rada.gov.ua/laws/show/901-19/paran38#n38">http://zakon0.rada.gov.ua/laws/show/901-19/paran38#n38</a> .

Патент	Ініціали Прізвище, "Назва патенту", <i>Номер патенту</i> , Дата випуску.	S. P. Voinigescu, «Direct m-ary quadrature amplitude modulation (QAM) operating in saturated power mode», <i>U.S. Patent Appl. 20110013726A1</i> , Jan. 20, 2011.  Б. С. Бабакин, Э. И. Каухчешвили, и А. И. Ангелов, «Устройство для разделения многокомпонентного сырья», <i>МКИ4 В 03 С 7/12, А 22 С 17/04. № 3599260/28-13</i> , Янв. 30, 1985.
Звіт про науково-дослідні роботи	Ініціали Прізвище, "Назва звіту", Назва організації, Місто, Країна*, номер реєстр., Рік. * не обов'язково	E. E. Reber, R. L. Michell, and C. J. Carter, «Oxygen absorption in the earth's atmosphere», Aerospace Corp., Los Angeles, CA, USA, Tech. Rep. TR-0200 (4230-46)-3, Nov. 1988.  В. Пасічник «Автоматизована система проектування спіральних свердел», НТУУ "КПІ", Київ, Д/б №2644-п, 2014.
Електронний ресурс	БО документа* [Електронний ресурс]. Доступно: <a href="http://www.web.com">http://www.web.com</a> <i>або</i> БО документа* [Електронний ресурс]. Доступно: <a href="http://site/path/file">site/path/file</a> . Дата звернення. *за прикладами, наведеними вище (книги, журналу тощо.)	The Terahertz Wave eBook. ZOmega Terahertz Corp., 2014. [Online]. Available: <a href="http://dl.z-thz.com/eBook/zomega_ebook_pdf_1206_sr.pdf">http://dl.z-thz.com/eBook/zomega_ebook_pdf_1206_sr.pdf</a> . Accessed on: May 19, 2014.  А. Р. Деш, и Р. Л. Трупти «Реализация алгоритма кодера Рида-Соломона в виде СБИС для систем связи», <i>Известия высших учебных заведений. Радиоэлектроника</i> , т. 56, № 9, с. 24–33, 2013. [Электронный ресурс]. Доступно: <a href="http://radio.kpi.ua/article/view/S0021347013090033">http://radio.kpi.ua/article/view/S0021347013090033</a> . Дата обращения: Янв. 19, 2016.

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