

Manuscript Submission Guideline for publishing in scientific journal «Technical Sciences and Technologies»

Dear authors!

First, please send your articles, reviews and information about the author (s), according to the below listed requirements, for a prior review by the editorial board of the journal «Technical Sciences and Technologies». After receiving positive response, please pay publication fee and send all the documents.

1. To publish paper in journal «Technical Sciences and Technologies» it is obligatory to provide the following:

- E-version of the paper, prepared according to the sample (Appendix A);
- review of the article, signed by the doctor of sciences;
- information on the authors, as in the given form (Appendix B). Please note that the name and surname of the author (s) are **written in full**;
- scanned receipt of payment for the publication fee;
- structured abstract.

2. Article requirements.

A scientific article must meet the thematic area of the scientific journal. An article can be submitted in one of three languages: Ukrainian, Russian, and English.

The paper should be as follows: minimum - 5 pages, maximum - 10 pages (the last page should be filled to not less than 3/4).

The paper is submitted in print and sent via E-mail: tst.technical.sj@gmail.com. The text of the paper is typed using computer text editors Word for Windows 97/2000/XP.

If the article is in Ukrainian or Russian it is compulsory to **provide an English translation of the article** (in accordance with para. 2.9 of the Order "On approval of the formation of the list of scientific professional publications of Ukraine" dated 17.10.2012, № 1111) or structured abstracts (1500-2000 characters) in English (TimesNewRoman, 12 pt, italic) (Appendix D). If the article is submitted in English, it is **compulsory to provide its translation in Ukrainian language and structured abstracts (1500-2000 characters) in Ukrainian and English languages** (TimesNewRoman, 12 pt, italics).

3. Requirements for structured abstracts (available on the journal web page).

The abstract should contain a concise statement of the content of the article, not to repeat the title of the article.

The abstract should contain 1500-2000 signs and be submitted as a separate file in two languages: the language of the manuscript itself (Ukrainian, Russian) and in English. The structural elements of the summary should be as follows:

- **Urgency of the research;**
- **Targetsetting;**
- **Actual scientific researches and issues analysis;**
- **Uninvestigated parts of general matters defining;**
- **The research objective;**
- **The statement of basic materials;**
- **Conclusions.**
- **Keywords.**

The papers will not be accepted for consideration without the extended abstracts. Abstracts are sent for review, together with the scientific article. Example of the extended structured abstract is given in Appendix D.

4. Page settings should be the following:

A4 format (210 × 297 mm). Margins: top, bottom and side - 25 mm. Do not put header and footer, and page numbers. The text should be aligned with the width of the sheet.

USING AUTOMATIC HYPHENATION AND AUTOMATICAL LISTS IS STRICTLY FORBIDDEN. ALL LISTS SHOULD BE PUT MANUALLY!

5. The structure of paper. Requirements for preparing the structural elements of paper.

5.1. UDK- TimesNewRoman font (size 12), italic, left justified, without paragraph.

– *empty line*

5.2. Name and surname of the author (s) – TimesNewRoman font (size 12), placing at the center, without indentation, in italics) (if there are several authors, the names are written in a single line). **The info about authors is given in three languages.**

5.3. Article title – TimesNewRoman font (size 12). Put in capital bold letters, centered, without a paragraph, in three languages.

– empty line

5.4. Abstract – TimesNewRoman font (9 pt), italic, justification, indentation 0.63 cm, single interval. The main idea of the paper should be clearly formulated and its relevance must be briefly justified (**volume - 600-1000 characters with spaces**) in the abstract. The abstracts in three languages: Ukrainian, Russian, English (Appendix A) are provided in the paper.

5.5 Keywords – TimesNewRoman font (9 pt), justified alignment, indentation 0.63 cm, single interval. Keywords are given in three languages. The number of key words - 5-7. **The total number of tables, figures and sources used (Appendix A) should be indicated after the keywords (in each language).**

– empty line

5.6. The main text - TimesNewRoman, size 12, justified, paragraph - 0.63 cm, single interval.

The main text of the article must contain the following essential elements - parts (TimesNewRoman, size 12, bold):

- Problem statement.
- Review of recent papers and research.
- Uninvestigated parts of general matters defining.
- The objective of the paper.
- Basic material presentation.
- Conclusions.
- References.

The naming of each essential element of the paper is followed with a point, and then the text of the article itself is put.

Citation, charts, statistics, numerical values, which increase the level of analytical materials are given with reference to the sources. The author carries the responsibility for the figures presented in the paper.

Figures and tables in the article should be placed immediately after the text where they are mentioned for the first time, or on the next page.

Illustrations (figures and black and white photographs)

While making figures it is recommended to use MicrosoftVisio 2007 (2003). If using MicrosoftWord pledged graphics figures should be grouped. Figures font Times New Roman, size 12, italic. **Figures should not go beyond the text block**

The figures are indicated with the word "Fig." and numbered in sequence within the article. If there is only one figure in the paper, it is not numbered. The explanatory captions, figure number, its title are placed in series under the illustration.

For instance:

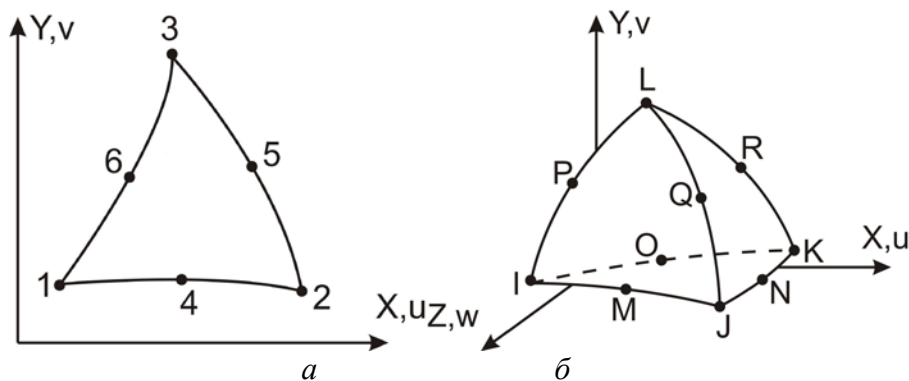


Fig. 3. Types of finite elements: a - 6-node plane finite element and b-10-node volume finite element

Tables

Digital material which is incorporated in the article should as a rule take the form of tables. Size of tables' text - font 12. All tables should be titled. Numbering tables' title (size 12) is aligned on the right edge of the table, thematic title of a table (center, size 12, italic). **All tables, figures should be titled.**

For instance:

№ of study	$V_K, \text{ m/c}$	$V_{\text{дет}}=V_K/60$	$t, \text{ MM}$	$Q_{\text{гп}}, \text{ MM}^2/\text{c}$	$a_z, \text{ MKM}$	$a_{z\text{max}}$	$n/n_{\text{пуз}}$
1	20	333	0,033	11	5,32	10,17	10/6
2	40	667	0,033	13	3,04	5,83	11/7
3	60	1000	0,028	18	2,01	3,78	15/10
4	80	1333	0,026	26	1,64	3,07	19/12
5	90	1500	0,025	38	1,59	2,84	25/16

If the table does not fit on a single page, all of its columns are numbered, and over the transferred part of the table "End Table. 1" should be written above to the right.

Formulas

Using formula in paper, one should stick to certain rules.

Large, long and cumbersome formulas, which are composed of the sum of marks, product, differentiation, integration, are placed on separate lines. This also applies to all the numbered formulas. To save space, some short similar formulas, separated from the text, can be placed in a single line, rather than one by one. Small and simple formulas, which have no independent value, are entered in lines of the text.

Style of the formulas: chemical formulas are typed with direct font. Formulas, for which there is a reference, are numbered in Arabic numerals in brackets on the right, without departing from the margin. Formulas must be aligned on the left side of the page. And between them and the text one line interval is maintained. It is compulsory to provide deciphering for lettered variables in formulas. To type symbols of physical quantities MicrosoftEquation formula editor for WINDOWS is used.

For instance:

Determining the wear of the circle is proposed as a proportional to the number of large sections of the limit value $(a_z)_{\text{max}}$:

$$Q_a(a_z) = C_1 \cdot a_z^{k_1} \cdot F(a_z) + C_2 \cdot a_z^{k_2} (1 - F(a_z)), \quad (1)$$

Where $k_1 < 1$, $k_2 > 1$ – exponents with slice thickness;

$F(a_z)$, $(1 - F(a_z))$ – the value of the integral distribution function of the calculated thickness of the slices, which determine the thickness of the slices, smaller and larger than the specified limit a_z . The integrated probability distribution function of chip thickness was found for the model of the grinding process [7].

– empty line

5.7. References should be made according to the VAK of Ukraine requirements (Bulletin of VAK of Ukraine № 5, 2009), placing bibliographic records alphabetically or in the order of their first mention in the text of the article.

– empty line

5.8. After the list of references its Latin transliteration (under the title: References) is given, in accordance with the Resolution of the Cabinet of Ministers of Ukraine № 55 "On regulation of Romanization of Ukrainian" from 27.01.2010 (as amended on 23.12.2015) or system requirements BGN / HCGN (for Russian language).

Note: after the transliterated name of the source in Latin letters, indicate the English translation in brackets.

The title "Bibliography" and "References" should be placed in the middle of the line, TimesNewRoman font, size 12, bold, and list of sources - 11 pt (Appendix A).

For transliteration of literature (References) we offer to take advantage of online-convectors:

- For the Ukrainian language: <http://ukrlit.org/transliteratsiiai>;

- For the Russian language: <http://translit-online.ru/pasport.html>

<http://translit.net/ru/>

<http://fotosav.ru/services/transliteration.aspx>

Examples of transliterated references are given in Appendix C.

6. It is compulsory to give information about the authors (in three languages) at the end of the paper: – surname, name and patronymic (in full) - 8 pt, bold;

- Academic degree, academic rank, position of the author (s) - a size 8;

- The workplace of the author (s) and address of the organization - a size 8;

- E-mail address of the author (s) (Appendix A) - 8 pt.- ID (in the system of scientific identification) in ORCID, RESEARCHER ID or SCOPUS.

For instance:

ORCID: <http://orcid.org/xxxx-xxxx-xxxx-xxxx>

Researcher ID:

Scopus Author ID:

7. Payment for publication fee. Publication of scientific articles in the journal "Technical Sciences and Technology" is paid. The publication fee of one page 1 of a scientific paper is 50 UAH (please be sure to specify the publication fee). Payment is confirmed with a receipt.

8. Payment details:

14027, Chernihiv, Shevchenko Str., 95.

Chernihiv National University of Technology.

p/p: 31254264106996, DKSU Bank in Kyiv, MFO 820172.ZKPO

code: 0546 0798.

Purpose of payment: for the publication of the article in "Technical Sciences and Technology" by _____
(surname, name, patronymic).

9. Contact info.

Materials should be sent to the address: 14027, Chernihiv, Shevchenko Str., 95, Bldg. 1, room 242 (research part). All documents that contain signature and seal must be scanned.

The contact person: *Kormylo Iryna*

Business Phone (04622) 3-42-44.

Mobile Phone: +38093 592-78-12. E-mail: tst.technical.sj@gmail.com.

The scientific journal "Technical Science and Technology" is available on the website of the Chernihiv National University of Technology, where you can view the latest issue of the publication: <http://tst.stu.cn.ua/>

The author carries the responsibility for the materials contained in the article. Inadequately prepared article and accompanying documents, which do not meet the above listed requirements, will not be considered.

The editorial board considers the submission of publication and accompanying documents (reviews, information about the author, etc.) as the author's (s) consent on the transfer of the copyright to use the work (copying, distribution, and. etc.).

UDK 528.4:332.3

Світлана Хрищук

МЕТОДИЧНІ АСПЕКТИ ФОРМУВАННЯ ЕКОБЕЗПЕЧНОГО ЗЕМЛЕКОРИСТУВАННЯ

Светлана Хрыщук

МЕТОДИЧЕСКИЕ АСПЕКТЫ ФОРМИРОВАНИЯ ЭКОБЕЗОПАСНОГО ЗЕМЛЕПОЛЬЗОВАНИЯ

Svitlana Khryshchuk

METHODICAL ASPECTS OF FORMING ECOLOGICALLY SAFE LAND-TENURE

Тривалий період реформування земельних відносин, зокрема в частині створення ефективних механізмів управління земельними ресурсами, не забезпечив вирішення проблем охорони довкілля і відповідальності землекористувачів за стан земельних ресурсів. Існування вище зазначених проблем пов'язують з недосконалістю теоретичної бази і методик наукового прогнозування, формування системи збалансованого (сталого) землекористування.

Роботу присвячено вирішенню питань удосконалення методичного забезпечення щодо формування системи землекористування, обґрунтування можливостей застосування певних методів для вирішення питань екобезпечної землекористування та формулювання основних принципів екобезпечної землекористування.

Ключові слова: екобезпечне землекористування, формування системи землекористування, методичні підходи, раціональне використання, збалансоване землекористування.

Табл.: 2. Бібл.: 28.

Длительный период реформирования земельных отношений, в частности создания эффективных механизмов управления земельными ресурсами, не обеспечил решение проблем охраны окружающей среды и ответственности земледельцев за состояние земельных ресурсов. Существование вышеотмеченных проблем связывают с несовершенством теоретической базы и методик научного прогнозирования, формирования системы сбалансированного землепользования.

Работа посвящена решению вопросов совершенствования методического обеспечения относительно формирования системы землепользования, обоснования возможностей применения определенных методов для решения вопросов экобезопасного землепользования и формулировки основных принципов экобезопасного землепользования.

Ключевые слова: экобезопасное землепользование, формирование системы землепользования, методические подходы, рациональное использование, сбалансированное землепользование.

Табл.: 2. Библ.: 28.

The protracted period of reformation of the landed relations, in particular in part of creation of effective mechanisms of management the landed resources did not provide the decision of problems of guard of environment and responsibility of land tenants for the state of the landed resources. Existence of the higher marked problems is bound to imperfection of theoretical base and methodologies of scientific prognostication, forming of the system of the balanced land-tenure.

This article seeks to the decision of questions of perfection of the methodical providing in relation to forming of the system of land-tenure, ground of possibilities of application of certain methods for the decision of questions ecologically safe land-tenure and formulation of basic principles of ecosafety land-tenure.

Key words: ecologically safe land-tenure, forming of the system of land-tenure, methodical approaches, rational use, balanced land-tenure.

Tabl.: 2. Bibl.: 28.

Note: * If one of the components is anscent, no need to mark anything (for example, do not put **Table 0**).

Problem statement. ...

Review of recent papers and research. ...

Uninvestigated parts of general matters defining...

The objective of the paper. The aim of the paper is ...

Basic material presentation. ...

Conclusion. ...

1. *Агробіорізноманіття України: теорія, методологія, індикатори, приклади* : кн. 1 / [під ред. О. О. Созінова, В. І. Придатка, О. І. Лисенка]. – К. : Нічлава, 2005. – 384 с.
2. *Беспалько Б. І.* Теоретичні основи оптимізації земель сільськогосподарського призначення / Р. І. Беспалько, С. Ю. Хрищук // *Вісник Національного університету водного господарства та природокористування* – 2012. – № 2 (72). – С. 224–230.
3. *Бриндзя О. З.* Теоретико-методологічні передумови раціонального землекористування [Електронний ресурс] / О. З. Бриндзя. – Режим доступу : <http://economics-of-nature.net/uploads/arhiv/2008/Bryndzja.pdf>.
4. *Гродзинський М. Д.* Основи ландшафтної екології : [підручник] / М. Д. Гродзинський. – К. : Либідь, 1993. – 224 с.
5. *Даниленко Б. В.* Перспективні напрями розвитку еколого-правового регулювання землекористування / Б. В. Даниленко // *Науковий вісник ЧНУ*. – 2011. – Вип. 597. Правознавство. – С. 79–83.
6. *Екологічні проблеми землеробства* / за ред. І. Д. Примака. – К. : Центр учбової літератури, 2010. – 456 с.
- ...
22. *Про землеустрій* [Електронний ресурс] : Закон України від 22 травня 2003 року № 858-IV. – Режим доступу : <http://zakon.rada.gov.ua/go/858-15>.
- ...

References

1. Sozinov, O.O., Prydatok, V.I. & Lysenko, O.I. (eds.) (2005). *Ahrobioriznomanittia Ukrainy: teoriia, metodolohiia, indykatory, pryklady [Agrobiodiversity of Ukraine: Theory, Methodology, Indicators, Examples]*. Book 1. Kyiv: Nichlava (in Ukrainian).
2. Bespalko, B.I., Khryshchuk, S.Yu. (2012). *Teoretychniosnovyoptimizatsii zemelsilskohospodarskohoprzyznachennia [The theoretical basis of optimization of agricultural land]*. *Visnyk Natsionalnoho universytetu vodnoho gospodarstva ta pryrodokorystuvannia – Proceedings of the National University of Water and Environment*, no. 2 (72), pp. 224–230 (in Ukrainian).
3. Bryndzia, O.Z. (2008). *Teoretyko-metodolohichni peredumovy ratsionalnoho zemlekorystuvannia [Theoretical and methodological prerequisites rational land use]*. Retrieved from <http://economics-of-nature.net/uploads/arhiv/2008/Bryndzja.pdf>.
4. Hrodzynskiy, M.D. (1993). *Osnovy landshaftnoiekolohii [Basics of Landscape Ecology]*. Kyiv: Lybid (in Ukrainian).
5. Danylenko, B.V. (2011). *Perspektyvni napriamy rozvytku ekolohopravovohorehuliuвання землекористування [Promising areas of environmental and legal regulation of land use]*. *Naukovyivisnyk ChNU – Chernivtsi University Scientific Herald*, issue 597. Jurisprudence, pp. 79–83 (in Ukrainian).
6. Prymaka, I.D. (2010). *Ekolohichni problemy zemlerobstva [The environmental problems of agriculture]*. Kyiv: Tsentruchbovoiliteratury (in Ukrainian).
- ...
22. *Pro zemleustrii: Zakon Ukrainy vid 22 travnia 2003 roku № 858-IV [On Land Management: Law on May 22, 2003 № 858-IV]*. Retrieved from <http://zakon.rada.gov.ua/go/858-15>.
- ...

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Information about Author

Information about author (s)	In Ukrainian	In Russian	In English
Surname			
Name			
Patronymic			
Science degree			
Academic title			
Honorary title			
Place of work			
Position			
Article title			
Article size			
Postal address where a copy of the collection should be send			
Contact info	Working phone		
	Phone		
	Mobile phone		
	e-mail		

Book

Author (s) (year of publication). Transliterated name [translated title in English]. City: Publisher (in Ukrainian)/(in Russian).

Новик Ф. С. Математические методы планирования экспериментов в металлловедении / Ф. С. Новик. – М. : МИСИС, 1972. – 105 с.	Novik, F.S. (1972). <i>Matematicheskie metody planirovaniia eksperimentov v metallovedenii</i> [Mathematical methods for design of experiments in metal]. Moscow: MISIS (in Russian).
Пивоваров А. А. Неравновесная плазма: процессы активации воды и водных растворов / А. А. Пивоваров, А. П. Тищенко. – Днепропетровск : Грек, 2006. – 225 с.	Pivovarov, A.A. & Tishchenko, A.P. (2006). <i>Neravnovesnaia plazma protsessy: aktivatsii vody i vodnykh rastvorov</i> [The nonthermal plasma: the activation of the processes of water and aqueous solutions]. Dnepropetrovsk: Grek (in Russian).
Устройство для осаждения тонких пленок с бомбардировкой быстрыми атомами аргона / А. С. Метель, В. П. Болбуков, М. А. Волосова, С. Н. Григорьев, Ю. А. Мельник // Приборы и техника эксперимента. – 2014. – № 3. – С. 114–121.	Metel, A.S., Bolbukov, V.P., Volosova, M.A., Grigorev, S.N., Melnik, Yu.A. (2014). <i>Ustroistvo dlia osazhdeniia tonkikh plenok s bombardirovkoi bystryimi atomami argona</i> [An apparatus for depositing thin films with argon fast atom bombardment]. <i>Pribory i tekhnika eksperimenta – Instruments and Experimental Techniques</i> , no. 3, pp. 114–121 (in Russian).

If more than six authors, the seventh and the following authors indicated «et al. ». If the author is not mentioned, but the editor is instead, the editor is placed on the top of the reference: Editor (s) (denoted by **(ed.)** / **(Eds.)**) (Year of publication). Transliterated name [translated title in English]. City: Publisher. (in Ukrainian) / (in Russian).

Сопrotивление материалов / под ред. Г. С. Писаренко. – К. : Гостехиздат Украины, 1963. – 792 с.	Pisarenko, G.S. (ed.) (1963). <i>Soprotivlenie materialov</i> [Strength of materials]. Kyiv: Gostekhizdat Ukrainy (in Russian).
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Multivolume Work

Author (s) / editor (s) (ed.) / (Eds.) (Year of publication). Transliterated name [translated title in English]. Volume (s) (denoted by (Vol) / (Vols.)) City: Publisher (in Ukrainian) / (in Russian).

Электротехнический справочник : в 4 т. / под общ. ред. В. Г. Герасимова. – 9-е изд. стер. – М. : Изд-во МЭИ, 2003. – Т. 1: Общие вопросы. Электротехнические материалы. – 400 с.	Gerasimov, V.G. (ed.) (2003). <i>Elektrotekhnicheskii spravochnik</i> [Electrical Engineering Handbook]. (Vols. 1–4) (9 th ed., repr.). <i>T 1. Obshchie voprosy Elektrotekhnicheskie materialy – General issues. Electrotechnical materials</i> . Moscow: Izd-vo MEI (in Russian).
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Part of the book

Author (s) (year of publication). Transliterated title of the part of the book [translated title of the part of the book in English]. Transliterated title of the book - translated book title (something that is written after //). City: Publisher, pages (pp.).

Аномальная анатомия коронарных артерий / А. П. Савченко, О. В. Черкавская, Б. А. Руденко, П. А. Болотов // Интервенционная кардиология. Коронарная ангиография и стентирование. – М. : ГЭОТАР-Медиа, 2010. – 448 с.	Savchenko, A.P., Cherkavskaya, O.V., Rudenko, B.A. & Bolotov, P.A. (2010). <i>Anomalnaya anatomiya koronarnykh arteriy</i> [Deviant anatomy of coronary arteries]. <i>Interventsionnaya kardiologiya. Koronarnaya angiografiya i stentirovanie – Interventional cardiology. Coronarography and stenting</i> . Moscow: GEOTAR-Media, pp. 60–79 (in Russian).
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Translated editions

Author (s) (year of publication). Transliterated name [translated title in English] (surname of the translator, Trans.). City: Publisher (in Ukrainian) / (in Russian).

Дезоер Ч. А. Основы теории цепей. / Ч. А. Дезоер, Э. С. Ку ; пер. с англ. под ред. С. М. Петрова. – М. : Связь, 1976. – 200 с.	Dezoer, Ch.A. & Ku, E.S. (1976). <i>Osnovy teorii tsepey</i> [Fundamentals of Circuit Theory] (Petrov, S.M., Trans.). Moscow: Sviaz (in Russian).
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Revised and Expanded Edition

Author (s) (year of publication). Transliterated title [translated title in English] (____nd / thed, rev.) City: Publisher (in Ukrainian)/(in Russian).

Деїт К. Дж. Введение в системы баз данных / К. Деїт, К.Дж. (2005). Введение в системы баз данных	Deit, K.Dzh. (2005). <i>Vvedenie v sistemy baz dannykh</i>
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UDC 621.3.05

*Volodymyr Kazymyr, Andrii Mokrohuz***INFORMATION TECHNOLOGIES OF MOBILE APPLICATIONS DEVELOPMENT**

Urgency of the research. Many mobile applications appear nowadays. Their amount have been growing simultaneously with different technologies and methodologies every day. Thus, consideration of information technologies of mobile application development is important and critical task.

Target setting. Amount of information technologies of mobile application development do not allow clear identification what technology to use and when this technology can be applied.

Actual scientific researches and issues analysis. Many scientists from all over the world approached the issue of selection appropriate technology of software development for mobile devices from different directions.

Uninvestigated parts of general matters defining. Despite the fact that many researches have been carried out it is still hard to say what the best approach in development of mobile application is. Variety of technologies and methodologies sometimes make it easy to make a mistake in selection of the direction to take for mobile software development. Thus, classification of the available technologies is required.

The research objective. In this paper, classification of mobile applications was presented alongside with technologies, which can be used for development of mobile applications.

The statement of basic materials. A native application is an application that has been developed for use on a particular operation system or platform or device. A web application is an application that is stored on remote server and users have access to the application over the Internet via browser interface. Web apps are very good solution for different types of devices and platforms. A hybrid application is an application that combines elements of native and web applications. Therefore, hybrid app development combines advantages and disadvantages related to web and native apps.

Conclusions. Mobile device applications have some traits, which other types of applications do not have. Type of the mobile application should be chosen accordingly to the requirements technical limitation resources available and needs.

Key words: mobile application; web application; HTTP; client-server.