

For Authors

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The scientific and technical journal "**Irrigation and Melioration**" is published four times a year - quarterly.

Payments from authors who publish articles are not required.

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Directions of the scientific and technical journal "**Irrigation and Melioration**":

- *Irrigation and melioration;*
- *Hydraulic engineering structures and pumping stations;*
- *Mechanization of irrigation and reclamation works;*
- *Mechanization of agriculture;*
- *Electrification and automation of agriculture and water resources management;*
- *Economics of water management and use of land resources;*
- *Training in irrigation and melioration;*
- *Reforms in the field of irrigation and land reclamation;*

Editorial Board of the Scientific and Technical Journal "**Irrigation and Melioration**" does not accept for publication of scientific articles review and informative content.

The manuscripts submitted to the editorial board should contain a letter of recommendation from the organization where the studies, expert opinion, and a review were conducted on the possibility of printing an article.

Structure, content and language of the articles

The article should be written in a comprehensible literate language, accessible to a wide range of specialists.

The article should be a completed work or a stage that can be summarized.

The name should inform about the essence of the article, be as short as possible and do not contain general words.

As a rule, a scientific article should contain:

- *universal decimal classification (UDC)*
- *title of the article (in three languages);*
- *Annotation (in three languages);*
- *keywords (in three languages)*
- *Introduction, analysis of the current state of the problem with the necessary references;*
- *statement of the problem;*
- *methods of solution;*
- *analysis of results and examples;*
- *conclusions;*
- *list of used literature.*

It is necessary to use the adopted terminology, in the case of the introduction of new terms it is necessary to clearly justify this. The units of physical quantities must correspond to the International SI system.

The magazine accepts only unpublished articles.

If the author used significant fragments from his previously published works, they should be referred to, and the need for such a large borrowing should be explained. In this case, excessive self-citation is not welcome in the journal.

The editorial board is extremely negative about the practice of misappropriation of others' ideas and achievements (to plagiarism). We ask authors to carefully approach the work with sources and observe the citation rules: do not forget to use quotes and put bibliographic references. When quoting or retelling the provisions or results of someone else's research, reference is required.

Technical requirements for articles

In the journal, the title, authors and their posts, academic degree and place of work, abstract, keywords (in three languages), are printed in one column. The remaining texts of the material are printed in two columns.

Articles should be executed in the text editor MS Word 2003-2010 and edited strictly according to the following parameters:

- orientation of the leaf - book,
- format A4,
- margins of 2 cm around the perimeter of the page,
- font Times New Roman,
- font size for the entire article, except for tables - 12 points,
- the font size for the tables is 10 pt,

- line spacing is 1.15,
- alignment to the width of the page,
- indention - 1 cm (without using the "Tab" or "Space" keys).

Not allowed:

- pagination;
- Use of page breaks in the text;
- use of automatic pagination links;
- use of automatic transfers;
- Use of a sparse or compressed inter-letter interval.

The tables are typed in the MS Word editor. Tables must have numbers and names that must be specified above the tables. See appendix 3.

Graphic material (drawings, drawings, diagrams, photographs) should be generalized research materials. Graphic material should be of high quality, if necessary, the publishing house may require the submission of material in separate files in jpg format with a resolution of not less than 300 dpi. The names and numbers of the graphic material must be indicated below the image. See Appendix 4.

Formulas and mathematical symbols must be executed either in MS Word using the built-in formula editor or in the MathType editor. See attachment 2.

Tables, graphics and formulas should not be outside the specified fields.

Keywords - are mandatory and should contain 5-10 words and phrases. Keywords and phrases are separated from each other by a comma. The above keywords should reflect the subject area of the research very accurately.

Abstract (in Uzbek, Russian and English) is required. The recommended volume of the abstract should not exceed 250 words, which should briefly reflect the structure of the article and be informative.

Introduction. The introduction formulates the relevance of the study and describes the object of research. A review of the world scientific publications is presented, confirming the absence in the literature of the solution of this problem and indicating the predecessors on whose studies the work is based. The list of references should include at least 20 sources, not including hard-to-reach and normative sources, and not including references to Internet resources (which are not periodicals). The literature should not include textbooks, teaching aids, etc. Most sources should be accessible and understandable to international English-speaking readers. The sources are subject to stringent requirements for the level and relevance. See the complete requirements for the completeness and representativeness of the literature review.

The aim and objectives of the research are formulated.

Formulation of the problem. Specify which official documents the author relied on to solve the task and what results would be achieved.

Methods. The methods described in detail the chosen method research. The method should be designed in such a way that another researcher can reproduce it.

Results and examples. The results should preferably be presented in the form of tables, graphs, and other illustrations. This section includes an analysis of the results obtained, their interpretation, comparison with the results of other authors.

- **The confirmation.** An optional section.

Conclusions. Brief results of scientific research, research methods, evaluation of the results of their implementation from the economic point of view and other indicators are given.

Bibliography. In which the authors are responsible for the fact that the information in each link is

complete and accurate. All sources must be numbered in the sequence of references to them in the text of the article. References in the text should look like numbers in square brackets (for example, "as described by T. Sultanov [7]."; ", As described in [9, 10]."). All references to sources should be given in the text; otherwise the article will be rejected. See attachment 1.

Information about the author should contain: a surname, a name, a patronymic, an occupied post, a scientific degree and a work place. This information should be presented both in the provided language of the article and in English and be located at the end of the article after the list of literature.

Appendix 1

Samples of bibliographic descriptions

General rules for bibliographic description are established by the state standard. For use in preparing a list of literature for a dissertation, the following samples of bibliographic description are recommended for different types of documents. The arrangement of examples in the above list can not serve as a scheme for grouping materials in the list of literature. The order of building the list is determined by the author himself. The most common ways of placing the material in the list of literature are alphabetic, systematic and in the order of mention in the text.

In the abstract, the list of published works is given in chronological order strictly in accordance with the standard.

In the bibliographic description, the following conditional separators are used.

A colon (:) is placed before each individual summary relating to the title of the publication.

One slash (/) - separates information not related to the title.

Two slashes (//) - put after describing the constituent parts of the publication and before describing the publication.

A dot or dash (.)

1. Books and series publications

1.1. There are one-volume books, monographs, textbooks, collection of articles here:

№ Reference	Литература
a) of single author:	
1. Abdushukurov A.A. <i>Ekhtimollar nazariyasi va matematik statistika</i> [Theory of Probability and Mathematical Statistics]. Tashkent, Universitet Publ., 2010. 169 p. (in Uzbek)	Абдушукуров А.А. Эҳтимоллар назарияси ва математик статистика. – Тошкент: Университет, 2010. – 169 б.
2. Marchuk G.I. <i>Metody vychislitel'noy matematiki</i> [Methods of Numerical Mathematics]. Novosibirsk, Nauka Publ., 1983. 196 p.	Марчук Г.И. Методы вычислительной математики. – Новосибирск: Наука, 1983. – 196 с.
3. Crombie W. <i>Process and Relation in Discourse and Language Teaching</i> . Oxford: Oxford University Press, 1985. 156 p.	Crombie W. <i>Process and Relation in Discourse and Language Teaching</i> . – Oxford: Oxford University Press, 1985. – 156 p.
b) link to the whole source:	
1. Godunov S.K., Ryaben'kiy V.S. <i>Raznostnyye skhemy (vvedenie v teoriyu)</i> [Theory of Difference Schemes: An Introduction]. Moscow, Nauka Publ., 1992. 399 p.	Годунов С.К., Рябенский В.С. Разностные схемы (введение в теорию)/ Учеб. пособие для ВУЗов. – М.: Наука, 1992. – 399 с.
2. Dym C.L., Ivey E.S. <i>Principles of Mathematical Modeling</i> . N.Y.: Academic Press, 1980. 256 p.	Dym C.L., Ivey E.S. <i>Principles of Mathematical Modeling</i> . – N.Y.: Academic Press, 1980. – 256 p.
c) of two authors:	

- Ulmasov A., Vakhabov A.V. *Iktisodiyot nazariyasi* [Theory of Economics]. Tashkent, Shark Publ., 2006. 480 p. (in Uzbek)
- Godunov S.K., Ryaben'kiy V.S. *Vvedenie v teoriyu raznostnykh skhem* [Theory of Difference Schemes: An Introduction]. Moscow, Fizmatgiz Publ., 1982. 168 p. (in Russian)
- Jacoby S.L., Kowalik J.S. *Mathematical Modelling with Computers*. Englewood Cliffs, N.J.: Prentice Hall, Inc., 1980. 292 p.
- Ўлмасов А., Вахобов А.В. *Иқтисодиёт назарияси/ Дарслик*. – Тошкент: “Шарқ” нашриёт-матбаа акциядорлик компанияси Бош таҳририяти, 2006. – 480 б.
- Годунов С.К., Рябенкий В.С. *Введение в теорию разностных схем*. – М.: Физматгиз, 1982. – 168 с.
- Jacoby S.L., Kowalik J.S. *Mathematical Modelling with Computers*. – Englewood Cliffs, N.J.: Prentice Hall, Inc., 1980. – 292 p.
- d) of three authors:**
- Mavlonova R., Turaeva O., Kholikberdiev K. 1. *Pedagogika* [Pedagogy]. Tashkent, Ukituvchi Publ., 2002. 318 p.
- Koshlyakov N.S., Gliner E.B., Smirnov M.M. 2. *Differentsial'nye uravneniya matematicheskoy fiziki* [Differential equations of mathematical physics]. Moscow, Fizmatgiz Publ., 1962. 67 p.
- Мавлонова Р., Тўраева О., Холикбердиев К. *Педагогика*. – Тошкент: Ўқитувчи, 2002. – 318 б.
- Кошляков Н.С., Глинер Э.Б., Смирнов М.М. *Дифференциальные уравнения математической физики*. – М.: Физматгиз, 1962. – 67 с.
- e) of four authors:**
- Khodiev B.Yu., Bekmuradov A.Sh., Gafurov U.V., Tukhliiev B.K. *Uzbekistan Respublikasi Prezidenti Islom Karimovning “Zhakhon moliyaviy-iktisodiy inkirozi, Uzbekiston sharoitida uni bartaraf etishning yullari va choralari”* [The book by the President of Uzbekistan, Islam Karimov, entitled The global financial-economic crisis, ways and measures to overcome it in the conditions of Uzbekistan]. Tashkent, TDIU Publ., 2009. 120 p.
- Meshcherskaya A.B., Rukhovets L.V., Yudin M.I., Yakovleva N.I. *Yestestvennye sostavlyayushchie meteorologicheskikh poley* [The natural components of meteorological fields]. L.: Gidrometeoizdat Publ., 1970. 199 p.
- Ходиев Б.Ю., Бекмурадов А.Ш., Гафуров У.В., Тухлиев Б.К. *Ўзбекистон Республикаси Президенти Ислам Каримовнинг “Жаҳон молиявий-иқтисодий инқирози, Ўзбекистон шароитида уни бартараф этишнинг йўллари ва чоралари” номли асарини ўрганиш бўйича ўқув қўлланма*. – Тошкент: ТДИУ, 2009. – 120 б.
- Мещерская А.В., Руховец Л.В., Юдин М.И., Яковлева Н.И. *Естественные составляющие метеорологических полей*. – Л.: Гидрометеоиздат, 1970.– 199 с.
- f) for the authors team:**
- Odilqoriev Kh.T., Ochilov B.E., Rakhmonov A.R., Khakimov R.T., Tansybaeva G.M., Nikolaus P., Umarakhunov I.M., Bakaeva F.Kh., Rakhimova M.A., Sultonov Zh.K., Yuldasheva G., Mukhamedzhanov O.Zh. *Khalkaro khukuk* [International law]. Tashkent, Zharkalam Publ., TDYul, 2003. 552 p.
- Koroteev A.M., Belyaev T.A., Glushkov R.M., Zubkov S.M., Ivanov I.A., Petrov Yu.A., Tukhmanova S.A., Sarkisyan R.I., Solov'ev M.I., Shokin Yu.A. 2. *Planirovanie, organizatsiya i upravlenie transportnym stroitel'stvom* [Planning, organization and management of transport construction]. Moscow, Transport Publ., 1989. 286 p.
- Одилқориев Х.Т., Очилов Б.Э., Рахмонов А.Р., Хакимов Р.Т., Тансыкбаева Г.М., Николаус П., Умаррахунов И.М., Бакаева Ф.Х., Рахимова М.А., Султонов Ж.К., Юлдашева Г., Мухамеджанов О.З. *Халқаро ҳуқуқ/ Дарслик*. – Х.Т.Одилқориев таҳрири остида. – Тошкент: “Зарқалам”, ТДЮИ, 2003. – 552 б.
- Коротеев А.М., Беляев Т.А., Глушков Р.М., Зубков С.М., Иванов И.А., Петров Ю.А., Тухманова С.А., Саркисян Р.И., Соловьёв М.И., Шокин Ю.А. *Планирование, организация и управление транспортным строительством/ Под ред. А.М.Коротеева*. – М.: Транспорт, 1989. – 286 с.
- j) periodical collections:**

Khudoyberdiev I.S. *Kibernetika va modellashtirish masalalari. Ilmiy maqolalar tuplami. Suyuk aralashma xarakterini gidrodinamik modeli*

1. [Hydrodynamic Model of Liquid Compound Movement / Cybernetics and Modeling:]. Tashkent, UzR FA Kibernetika instituti, 2000. no.120. pp. 17-21. (in Uzbek)

Akhmedova A.Kh. *Voprosy kibernetiki. Sb. nauch. tr. Modelirovanie potrebnosti v kadrah vysshey kvalifikatsii s ispol'zovaniem sovremennykh*

2. *informatsionnykh tekhnologiy* [Modeling the need for highly qualified personnel using modern information technologies / Questions of cybernetics:]. Tashkent, IK AN RUz, 2004. no.170. pp. 35-39. (in Russian)

Худойбердиев И.С. Суюқ аралашма ҳаракатини гидродинамик модели/ Кибернетика ва моделлаштириш масалалари: Илмий мақолалар тўплами – Тошкент: ЎзР ФА Кибернетика институти, 2000. – № 120. – Б. 17-21.

Ахмедова А.Х. Моделирование потребности в кадрах высшей квалификации с использованием современных информационных технологий/ Вопросы кибернетики: Сб. науч. тр. – Ташкент: ИК АН РУз, 2004. – вып. 170. – С. 35-39.

1.2. Multi-volume books:

№ Reference

a) link to the whole source:

1. Khoshimov K., Ochil S. *Uzbek pedagogikasi antologiyasi* [Anthology of Uzbek pedagogy]. Vol.2. Tashkent, Ukituvchi Publ., 1996. 460 p.
2. Fletcher K. *Vychislitel'nye metody v dinamike zhidkostey* [Computational Techniques for Fluid Dynamics]. Vol.2. Moscow, Mir Publ., 1991. 504 p.

b) description of an individual volume:

1. Alisher Navoiy. *Makhtub ul-kulub* [Makhtub ul-kulub]. Asarlar. Vol.15. Tashkent, Adabiyot va san'at, 1996. no.13. pp. 84-98.
2. Sedov L.I. *Mekhanika sploshnoy sredy* [Continuum mechanics]. Vol.2. Moscow, Nauka Publ., 1983. no.1. pp. 114-125.

Литература

Ҳошимов К., Очил С. Ўзбек педагогикаси антологияси. 2 томлик. – Тошкент: Ўқитувчи, 1996. – 460 б.

Флетчер К. Вычислительные методы в динамике жидкостей. В 2-х т. – М.: Мир, 1991. – 504 с.

Алишер Навоий. Маҳбуб ул-қулуб. Асарлар. Ўн беш томлик. – Тошкент: Адабиёт ва санъат, 1996. – 13-том. – Б. 84-98.

Седов Л.И. Механика сплошной среды. В 2-х т. – М.: Наука, 1983.– Т.1.– С. 114-125.

2. Thesis and abstract of a thesis

№ Reference

1. Arzikulova D.N. *Kasbiy kamolotning psikhologik uziga khos xususiyatlari. Psikh. fan. nom. ... diss. avtoref.* [Psychological peculiarities of professional development: psychology. subject, title. dissertation, abstract.]. Tashkent, TDPU, 2002. 22 p.
2. Kuznetsov Yu.I. *Postroenie informativnogo bazisa v zadachakh obshchey tsirkulyatsii atmosfery. Diss. ... kand. fiz. – mat. nauk.* [Construction of an informative basis in problems of general circulation of the atmosphere: Dissertation, candidate, physics – mathematics, science.]. Novosibirsk, VTs SO RAN, 1997. 134 p.
3. Frolov V.V. *Teoreticheskie problemy pravovogo regulirovaniya spetsial'nykh ekonomicheskikh zon. Avtoref. diss. ...kand. yurid. nauk.* [Theoretical problems of legal regulation of special economic zones.]. Moscow, MGU, 1997. 22 p.

Литература

Арзиқулова Д.Н. Касбий камолотнинг психологик ўзига хос хусусиятлари: Псих. фан. ном. ... дис. автореф. – Тошкент: ТДПУ, 2002.–22 б.

Кузнецов Ю.И. Построение информативного базиса в задачах общей циркуляции атмосферы: Дис. ... канд. физ. – мат. наук. – Новосибирск: ВЦ СО РАН, 1997. – 134 с.

Фролов В.В. Теоретические проблемы правового регулирования специальных экономических зон: Автореф. дис. ... канд. юрид. наук. – М.: МГУ. 1997. – 22 с.

3. References to articles in magazines

№ Reference

Литература

1. Kurbonov Sh., Seytkhalilov E. *Zhamiyat tarakkiyotida ta'lim* [Education in the development of society]. Khalk ta'limi. Tashkent, 2003. no.6. pp. 4-38. (in Uzbek)
2. Mukhamedov A. *Uzbek komp'yuter lingvistikasi: rivozhlanish tarixi, buguni va kelazhagi* [Uzbek Computer Linguistics: Past, Present and Future Perspectives]. Uzbek tili va adabiyoti. Tashkent, 2001. no.3. pp.37-41. (in Uzbek)
3. Bakhvalov N.S. *K optimizatsii metodov resheniya kraevyx zadach pri nalichii pogrannichnogo sloya* [On the optimization of the methods for solving boundary value problems in the presence of a boundary layer]. Zhurnal vychisl. matem. i matem. fiziki. Moscow, 1969. no.4(9). pp. 841-859. (in Russian)
4. Akhmedov A.I. *Rol' kommercheskikh bankov v razvitii ekonomiki Uzbekistana* [Role of Commercial Banks in the Economic Development of Uzbekistan]. Ekonomicheskiy vestnik Uzbekistana. Tashkent, 2005. no.5. pp. 20-22. (in Russian)
5. Rakhimova F.S. *Ispol'zovanie podvijnykh igr pri obuchenii uzbekskomu yazyku mladshikh shkol'nikov* [The use of outdoor games in teaching the Uzbek language of junior schoolchildren]. Prepodovanie yazyka i literatury. Tashkent, 2004. no.2. pp. 41-43. (in Russian)
6. Kurbatkin G.P., Zulunov S.M., Frolov A.B., Pokudov A.B. *Nelineynoe soglasovanie poley vetra i davleniya pri chislennom prognoze pogody po polnym uravneniyam* [Nonlinear matching of wind and pressure fields in the numerical weather prediction by the complete equations/ Meteorology and hydrology]. Meteorologiya i gidrologiya. Moscow, 1988. no.12. pp. 5-13. (in Russian)
7. Daley R. Variational nonlinear normal "mode initialization. Tellus. Stockholm (Sweden), 1978. vol.30, N 3. pp. 201-218.
8. Rakhmatullaev M. Advanced information Library infrastructure: As an Important Social Tool for the Prevention of Crisis Situations in Central Asia. Library Hi Tech News. MCB University Press, England, 2002. vol.19, N 9. pp. 12-14.
- Қурбонов Ш., Сейтхалилов Э. Жамият тараққиётида таълим// Халқ таълими. – Тошкент, 2003. – № 6. – Б. 4-38.
- Мухамедов А. Ўзбек компьютер лингвистикаси: ривожланиш тарихи, бугуни ва келажаги// Ўзбек тили ва адабиёти. – Тошкент, 2001. – № 3. – Б. 37-41.
- Бахвалов Н.С. К оптимизации методов решения краевых задач при наличии пограничного слоя// Журнал вычисл. матем. и матем. физики – Москва. 1969. – № 4 (9). – С. 841-859.
- Ахмедов А.И. Роль коммерческих банков в развитии экономики Узбекистана// Экономический вестник Узбекистана. – Ташкент, 2005. – № 5. – С. 20-22.
- Рахимова Ф.С. Использование подвижных игр при обучении узбекскому языку младших школьников// Преподавание языка и литературы. – Ташкент, 2004. – № 2. – С. 41-43.
- Курбаткин Г.П., Зулунов С.М., Фролов А.В., Покудов А.В. Нелинейное согласование полей ветра и давления при численном прогнозе погоды по полным уравнениям// Метеорология и гидрология. – Москва, 1988. – № 12. – С. 5-13.
- Daley R. Variational nonlinear normal "mode initialisation// Tellus. – Stockholm (Sweden), 1978. – vol. 30, N 3. – pp. 201-218.
- Rakhmatullaev M. Advanced information Library infrastructure: As an Important Social Tool for the Prevention of Crisis Situations in Central Asia// Library Hi Tech News. – MCB University Press, England, 2002. – vol. 19, N 9. – pp. 12-14.

4. References to collections of learned works

4.1. link to the whole source:

№ Reference

1. *Mustakillik sharoitida oila va shakhs kamoloti. Nizomiy nomidagi TDPU Ilmiy ishlar tup.* [Independence of the family and personality in the conditions of maturity: Tashkent State Pedagogical University named after Nizami, Collection of scientific works.]. Tashkent, 1997. pp. 6. 73.
2. *Intellektual'noe obshchenie s EVM. Sb. nauch. tr. TashGU* [Intellectual communication with the computer]. Tashkent, 1986. 270 p.

Литература

- Мустақиллик шароитида оила ва шахс камолоти: Низомий номидаги ТПДУ Илмий ишлар тўп. – Тошкент, 1997. – 73 б.
- Интеллектуальное общение с ЭВМ: Сб. науч. тр. ТашГУ. – Ташкент, 1986. – 270 с.

4.2. Links to the article

№ Reference

1. Rustamov Sh. *Kuzgi bugdoy begona utlari va ularni yukotish omillari. Agrar fani: yutuklari va istikbollari. SamKKhl ilmiy ishlar tuplami* [Wheat weeds and their loss factors / Agrarian science: achievements and prospects. Samarkand Agricultural Institute, Collection of scientific works]. Samarkand, 2001. pp. 27-30.
2. Ivanova G.S. *Izmeneniya v sisteme svyortyvaniya krovi u bol'nyx zlokachestvennymi opukholyami. Sb. nauch. trudov Instituta biologii AN RK* [Changes in the blood coagulation system in patients with malignant tumors]. Almaty, 1980. pp. 214-217.
3. Miyakoda K. *Vvedenie v chislenny prognoz pogody (konechno-raznostnye metody). V kn. Chislennye metody resheniya zadach dinamiki atmosfery i okeana* [Introduction to numerical weather forecast (finite-difference methods): Numerical methods for solving atmospheric and ocean dynamics problems]. L.: Gidrometeoiz, 1968. pp. 7-120.
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Appendix 2

Example formula

$$\begin{aligned}
 u_{yy} - |y|^m \cdot u_{xx} + a_1(x, y)u_x + b_1(x, y)u_y + c_1(x, y)u &= \\
 &= \lambda_{\xi}^{\xi} F_{\sigma_{\xi}} \left[\frac{a, b}{c, \xi} \right] \xi^{\xi} u(\xi, 0) + d_1(x, y)
 \end{aligned} \quad (1)$$

Example of table**Example of illustration****Fig.1. Consistation solid particles in draft****Fig.2. Foreign trade turnover, export and import of the Kemerovo region in dynamics for 1996-2008.****When writing sections dealing with:**

- *ethical norms and copyrights;*
- *structure, content and language of the articles;*
- *technical requirements for articles;*
- *samples of bibliographic descriptions, etc.*

normative sources, journals of CIS countries, methodical developments of leading institutes were used, including:

- *engineering and construction magazine. Russia 2017;*
- *the main criteria for obtaining a doctorate degree. The Higher Attestation Commission under the Cabinet of Ministers of the Republic of Uzbekistan. Tashkent 2017.*