

Guidelines for authors

submitting their papers to the
Proceedings of the Steklov Institute of Mathematics

February 20, 2017

1 General

Proceedings of the Steklov Institute of Mathematics is a series whose volumes are either thematic collections of papers pertaining to one or several related fields of mathematics or monographs. Each volume is prepared by a specially invited editor or editors, who select the papers and arrange the peer review process. The publication of each volume is sanctioned by the Academic Council of the Steklov Mathematical Institute.

The papers submitted directly to the Editorial Board are not dealt with and are not accepted for publication. The selection of papers for each volume is performed by a specially invited editor, who is, as a rule, a world renowned scientist specializing in those fields to which the volume is devoted.

Proceedings of the Steklov Institute of Mathematics publishes only **original** scientific papers that contain rigorous results in contemporary mathematics, theoretical and mathematical physics, mechanics, and their applications.

The papers submitted cannot be previously published in other journals, collections of papers, or special separate issues. Nor can they be submitted to other places for publication (except as a preprint). Most part of the submitted paper should present new material. Survey papers are also admitted.

The papers must be written in Russian whenever possible. If this is impossible, the authors should come to an agreement with the Editorial Board on the translation of their papers into Russian for publication in the Russian version of the journal.

All papers are almost simultaneously published in the Russian version of the journal, *Trudy Matematicheskogo instituta im. V.A. Steklova RAN*, and in the English version of the journal, *Proceedings of the Steklov Institute of Mathematics*. The papers submitted only in Russian are translated into English. If the author is proficient in written English, they are welcome to translate their paper by themselves. The translation should be completely in agreement with the Russian version.

The corresponding author receives once a pdf file of the Russian version and once a pdf

file of the English version of the paper for proofreading, and also receives the final versions of the paper (pdf) after publication.

Important note. If there was a prepublication of the paper in the Internet, then the author, as soon as the paper is published in the journal, should indicate all data (journal number, year, pages, and DOI) of the paper in that prepublication.

2 Submission of materials to the Editorial Board

After the paper is approved by the volume editor and peer-reviewer, the authors should submit the following materials to the Editorial Board (via the volume editor or directly):

- two printed copies of the paper, with one signed by all co-authors (this copy is considered an official version);
- electronic version of the paper (tex and pdf files are obligatory) and all files used in preparing the electronic version (files with figures, all nonstandard style files, etc.);
- filled and signed **copyright transfer agreement** with MAIK Nauka/Interperiodika for the publication of the Russian version of your paper in *Trudy MIAN* (available at <http://www.mathnet.ru/supplement/authoragreement/tm.zip>);
- filled and signed **copyright transfer agreement** with Pleiades Publishing for the publication of the English version of your paper in *Proceedings of the Steklov Institute of Mathematics* (available at <http://www.mathnet.ru/supplement/authoragreement/tm.zip>);
- a separate sheet of paper with the data of the corresponding author: surname, name, patronymic name, phone number and e-mail.

3 Text format requirements

Papers should be submitted in any **TeX** format.

Use a font size of **11pt** or **12pt**.

Text size should not exceed 165 mm by 233 mm. Use one-sided printing for hard copies. All pages must be numbered.

Each paper should contain:

- a **UDK** index according to <http://www.viniti.ru/russian/math/files/271.htm> (see also <http://weblib.ssu.samara.ru/Dlib/Udc/UDC51.htm>);
- the **date of submission** of the paper to an editor of the volume (in the absence of such a date, the date of submission of the paper by an editor of the volume to the Editorial Board of the journal will be indicated as the date of submission).

- **affiliations of all authors** (institute, university);
- **e-mails** of all authors or, at least, of the corresponding author;
- a **short abstract** in one paragraph, without references to numbered equations, statements, or the list of references in the main body of the text (the abstract should be a self-contained text and be clear when published separately from the paper);
- acknowledgements of financial support, if necessary.

Acknowledgements (except for grants) should be placed at the end of the paper, before the list of references.

When citing other sources, indicate the relevant chapter or section but not the page number (since many sources have been translated into other languages and their translations have different page numbering). The paper must not contain references to unpublished papers whose results are used in proofs.

Repeating the same displayed formula with different numbers is not allowed.

Numbered parts of papers are sections, subsections and subsubsections. In sectioned papers, displayed equations should have double numbers.

Decimals should be rendered with a period, not with a comma (0.25, not 0,25).

Use only inverted commas for quotation marks (“...”), not double angle brackets.

Do not use Cyrillic letters in notation (even in indices).

All abbreviations used in an article, with the exception of those generally accepted, should be spelled out. The notation used in formulas, except for commonly known items, should be explained in the main body of the text.

4 References

The list of references should contain only those items that are mentioned in the main body of the text.

Large lists of references should preferably be arranged in the alphabetic order (according to the author’s surnames; if they coincide, then earlier publications go first). Items in short lists may be arranged in the same order as they appear in the text.

All references are given in the original language. Every item in the list of references should contain a reference to one source.

References to books translated into Russian should be accompanied by complete references to the originals. References to papers in Russian journals should be accompanied by references to their English translations in all cases when such translations were made.

Author’s initials go before the surname with a space between the initials. Use “and” between the last two authors: F. Mortessagne, O. Legrand, and D. Sornette.

References should contain the following information:

- for papers in journals — authors, title, journal name, volume, issue number, first and last pages, year: V. A. Il'in, “The solvability of mixed problems for hyperbolic and parabolic equations,” *Usp. Mat. Nauk* **15** (2), 97–154 (1960) [Russ. Math. Surv. **15** (2), 85–142 (1960)];
- for books — authors, title, publisher, city, year, volume: I. P. Natanson, *Theory of Functions of a Real Variable* (Nauka, Moscow, 1974; Ungar, New York, 1955);
- for papers in collections or proceedings — authors, title, book title, publisher, city, year, volume, first and last pages: A. Böttcher and H. Widom, “From Toeplitz eigenvalues through Green’s kernels to higher-order Wirtinger–Sobolev inequalities,” in *The Extended Field of Operator Theory* (Birkhäuser, Basel, 2007), Oper. Theory Adv. Appl. **171**, pp. 73–87.

5 Graphic files and photos

Figures (except photos and some extraordinary cases) should be prepared in vector formats and presented in eps-files. For the difference between vector and raster (bitmap) formats, see

http://en.wikipedia.org/wiki/Vector_graphics

http://en.wikipedia.org/wiki/Raster_graphics

If you are using LaTeX graphics, please follow the `pstricks` package (i.e., insert `\usepackage{pstricks}` at the beginning of your document) and use the `pspicture` environment instead of `picture`, `\psline` instead of `\line`, `\pscircle` instead of `\circle`, and so on (see <http://mirror.ctan.org/graphics/pstricks/base/doc/pstricks-doc.pdf> for details).

Color figures are allowed provided that everything remains clear after grayscaling and that no colors are mentioned in the text and figure captions.

The resolution of raster images should be at least 600 dpi.

If illustrations are prepared in vector graphics editors (CorelDRAW, Adobe Illustrator, etc.), then the native format files (*.cdr, *.ai, ...) should be submitted together with the eps-files.

Photographs should be submitted in two versions, the first corresponding to the original with all inscriptions and notations; the second should be clean (no text, notations, etc.).

Inscriptions in illustrations should not come in contact with any of their parts.