

RESEARCH ARTICLE

An Article Template for OMJ Submissions–Author Guidelines

An Optional Subtitle to Clarify the Matters

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Abstract

Your abstract goes here. The abstract should be no more than 300 words maximum. The abstract should be a single paragraph and should not contain references or unexplained abbreviations or acronyms. Your abstract should be concise and informative and should read well as a standalone piece. The general scope of the article as well as the main results and conclusions should be summarised.

Keywords: keyword term1; keyword term2; keyword term3; keyword term4; keyword term5; keyword term6; keyword term7; keyword term8; keyword term9

Mathematics Subject Classification: 12H05, 03F25, 03C35, 68W30, 65Gxx, 20N02

1 Introduction

Your introduction goes here!

This document explains how to prepare your article for submission to *Online Mathematics*. Before submitting, please:

1. carefully read our Aims and Scope and Ethics and Policies pages before submitting to assess if your manuscript is suitable for *Online Mathematics*;
2. use the this \LaTeX template to prepare your manuscript;
3. ensure that all eligible co-authors have been included in the author list and that all authors have approved the content of the submitted manuscript.

The submitting author will be required to provide a Contributor ID (ORCID) via the online submission system of *Online Mathematics*. Provision of ORCIDs by co-authors is strongly encouraged, but not mandatory.

2 Submission Process and Accepted File Formats

Manuscripts for *Online Mathematics* should be submitted online via <http://www.onlinemathematics.net>. The submitting author, who is generally the corresponding author, is responsible for the manuscript during the submission and peer-review process.

In order to make manuscript submission as easy as possible for authors, at *first submission*, authors can submit their manuscript in a single PDF file produced using any \LaTeX template. There are no strict formatting requirements but all manuscripts must contain the essential elements needed to evaluate a manuscript. However, we do still encourage authors to use our \LaTeX template available for download from our Instructions for Authors page on the journal website.

Once an article has been *accepted* for publication the author must provide a PDF of the manuscript formatted in the journal \LaTeX template along with a ZIP archive containing the \LaTeX source files and any figures and tables. Authors of accepted manuscripts ‘must’ use the journal \LaTeX template to prepare their final manuscript.

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3 Types of Manuscripts

Online Mathematics publishes the following article types:

Research Article An original research manuscript which should report high quality research providing a meaningful contribution to the mathematical literature.

Subject Review An in-depth summary of the state-of-the-art in that mathematical subject, exploring recent developments and their implications for the wider mathematical community, and highlighting new avenues for exploration in mathematical sciences.

Perspective A perspective takes the form of a review but it is distinct from a review. A perspective provides the reader with an overview of the subject and give a ‘personal insight’ into the advances in the mathematical field and challenges the future may hold. Perspectives can then be selective in their coverage of an area rather than an in-depth review.

Short Communication A short communication is a shorter piece of research that can present novel ideas, initial results, extensions on published research, or new methodologies or applications. A short communication should not be more than 6 typeset pages formatted according to this LaTeX template, and could include two figures or tables.

4 Length of Manuscripts

Online Mathematics has no restrictions on the length of manuscripts, provided that the text is concise and comprehensive. However, we recommend that the main text of the manuscript do not exceed 40 typeset pages formatted according to this LaTeX template (about 26000 words).

5 General Considerations of the Manuscript Structure

Submissions to *Online Mathematics* should comprise:

Title The title of your manuscript should be concise, specific and relevant. Your article title should be a short description of the research you are reporting. The best titles are written with both human readers and search engines in mind. Title and subtitle (together) should be no more than 3 lines.

Author List and Affiliations Authors’ full first and last names must be provided. The initials of any middle names can be added. Affiliations should include complete address information including city, zip code, state or province, country, and all email addresses. At least one author should be designated as corresponding author, and his or her email address and other details should be included at the end of the affiliation section.

Abstract The abstract should be no more than 300 words maximum. The abstract should be a single paragraph and should not contain references or unexplained abbreviations or acronyms. Your abstract should be concise and informative and should read well as a standalone piece. The general scope of the article as well as the main results and conclusions should be summarised.

Keywords Please include at least 3 and up to 12 keywords. Try to avoid overly broad terms that might be meaningless to the reader. Keywords do not necessarily need to be single words; keywords can include short phrases or terms that are easily recognised by researchers in your field.

Introduction The introduction should briefly place the study in a broad context and highlight why it is important. Keep your introduction comprehensible to people working outside the topic of the article. An introduction should define the purpose of the work and its significance. The current state of the subject should be reviewed carefully and the key publications should be cited. Also, briefly mention the main aim of the work and highlight the main conclusions.

Main Manuscript Sections The main sections of your manuscript. The main text of your article should be split into clearly-labelled sections. Feel free to use whatever headings and subheadings best suit your article. Abbreviations should be written out in full on first use.

Conclusion Summarize the aim of the work and sum up your results.

Acknowledgments Acknowledge anyone who contributed to the study but did not meet the authorship criteria.

Competing Interests Please provide a statement if you have any competing interests to declare. Competing interests are defined as those that, through their potential influence on behaviour or content or from perception of such

potential influences, could undermine the objectivity, integrity or perceived value of publication. If there is no competing interests, please state “The authors have no competing interests”.

Funding Please state the sources of funding for each author. Including this information is a requirement of many funders. If there is no external funding, please state “The research work has no funding support”.

6 Instructions for OMJ L^AT_EX Template

The OMJ L^AT_EX author package includes the following files:

OMJArticle.tex The L^AT_EX source file for the authors to type their manuscripts.

OMJArticle.pdf The compiled PDF file from ‘OMJArticle.tex’. It is this PDF file.

myrefs.bib A bibliography database file for the author to put the references.

omj.cls The L^AT_EX class file for *Online Mathematics*. This file includes the commands that define the format and layout of an OMJ article.

omj.bst The bibliography style file for *Online Mathematics*. The code in this file will automatically format the references in the bibliography database file ‘myrefs.bib’.

6.1 The Main Structure of an OMJ L^AT_EX Document

The main structure of the L^AT_EX file of your manuscript should be as follows:

```
\documentclass{omj} % Class file for Online Mathematics
%
%% ===== Editorial Information: To be Provided by Editor ===== %
%
\firstpage{1}
\vol{00}
\issue{00}
\thisyear{2019}
\rec{\today}
\acc{Monthname xx, 20xx}
\pub{Monthname xx, 20xx}
%
%% ===== Article Information: To be Provided by Author ===== %
%
\articletype{Research Article}
\title{An Article Template for OMJ Submissions}
\subtitle{An Optional Subtitle to Clarify the Matters}
\shorttitle{Short Title for the Running Head}
%
%% ---- Authors , Affiliations, Emails, orcIDs ---- %
\author[1]{First Author}
\affil[1]{Affiliation of the First Author, University, Country}
\email[First Author]{first.author@email.com}
%
\author[2]{Second Author}
\affil[2]{Affiliation of the Second Author, University, Country}
\email[Second Author]{second.author@email.com}
%
%% ---- Corresponding Author ORCID and Email ---- %
\corrauthor[0000-0000-0000-0000]{First Author}{first.author@email.com}
%% Give the author list to appear in the running head
\shortauthors{First Author et. al.}
%
%% ---- Abstract (no more than 300 words) ---- %
\begin{abstract}
Your abstract goes here.
\end{abstract}
%% ---- Keywords (at least 3 and up to 12) ---- %
\keywords{keyword term1; keyword term2; keyword term3}
```

```

%% ---- MSC Codes (at least 1 and up to 6) ---- %
\msc{12H05, 03F25, 03C35, 68W30, 65Gxx, 20N02}%
%
%% ===== Main Text of the Article ===== %
%
\begin{document}
.....
\section{Introduction}
.....
%..... Other sections of the Article ..... %
.....
\section{Conclusion}
\section*{Acknowledgments}
.....
\bibliography{myrefs}
\end{document}

```

6.2 Packages Used by the OMJ L^AT_EX Class

The following packages are already loaded by this class file and the author does not need to load any of them in the L^AT_EX file of his manuscript: amsthm, amsmath, amsfons, amssymb, caption, cite, hyperref, graphicx, xcolor. The author ‘must not’ load any packages to change fonts or layout of this article.

6.3 Figures and Tables

Use the `table` and `tabular` commands for basic tables (see table 1).

OMJ Volume	Number of Articles
Volume 1	20
Volume 2	32
Volume 3	40

Table 1. A Nice Table.

To include a figure (JPEG, PNG or PDF) in your document, use the `includegraphics` command (see figure 1).



Figure 1. Logo of Online Mathematics Journal

6.4 Citations

The L^AT_EX class of *Online Mathematics* formats citations and references automatically from the bibliography records in your bibliography file ‘myrefs.bib’ using the bibliography style file ‘omj.bst’. Use the `cite` command for an inline citation, like [3].

The following are examples of citations:

Journal Articles See, e.g, [5] and [1].

Books See, e.g., [2] and [13].

Book Chapters See, e.g., [3] and [8].

Conference Proceedings See, e.g., [9] and [12].

Technical Reports See, e.g., [6] and [10].

Dissertations See, e.g., [11].

Computer Software See, e.g., [4] and [14].

Software Manuals See, e.g., [7].

6.5 Lists and Their Types

You can make numbered, bullet, or description lists. For example, lists with automatic numbering ...

1. Like this,
2. and like this.

... or bullet points ...

- Like this,
- and like this.

... or with words and descriptions ...

Word Definition of the word.

Concept Explanation of the concept.

Idea Clarification of an idea.

6.6 Mathematics and Enunciations

The following environments are predefined for the author in the OMJ class file: theorem, proposition, lemma, corollary, conjecture, claim, axiom, definition, criterion, example, algorithm, principle, notation, problem, remark, solution, case, condition, and proof. For example, to add a theorem and its proof, use the following environments:

```
\begin{theorem}[Optional Label]
Your nice theorem is here.
\end{theorem}
%
\begin{proof}
This is a nice proof.
\end{proof}
```

Examples of enunciations follow.

Axiom 6.1. *This is a nice axiom.*

Definition 6.1. *This is a nice definition.*

Theorem 6.1 (Custom Label). *This is a nice theorem with custom label.*

$$X_{\alpha} + Y_{\beta} = Z_{\delta}.$$

Proof. This is the proof of the nice theorem. □

Theorem 6.2. *This is a nice theorem with multiple items. S defined as follows:*

- (i) *S is a class,*
- (ii) *S is not a set.*

7 Conclusion

Your conclusion goes here!

Acknowledgments

Please acknowledge anyone who contributed to the study but did not meet the authorship criteria.

Competing Interests

The authors have no competing interests.

Funding

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