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Article title

Abstract: Please put the short abstract here. The abstract gives the reader an overall view of the contents of the full paper. The length should not normally exceed 200 words and must not contain any figures, graphics or tables. The abstract is updated in the submission process. All final abstracts will also be published on the homepage of the Finnish Society of Automation and included in the conference program booklet. Submissions include extended abstracts, draft papers, full papers, short papers, presentation slides and posters. For scientific papers, the review continues as a peer review at Open Engineering.

Keywords: keywords, keywords

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1 Introduction

Three types of papers can be offered to the conference (Fig. 1):

- *Traditional/industrial papers* can be written in Finnish, English or Swedish. Interesting case reports are welcomed as well. The presentation at the conference will be accepted based on the extended abstract. Optionally, the authors can also submit full papers which are reviewed for publication in the conference proceedings published by the Finnish Society of Automation.
- *Scientific papers* must be written in English and will be accepted for presentation based on a peer review of the draft papers. The full papers are not allowed to be published in the conference proceedings. Only the short and extended abstracts will be available at the conference. Thereafter, the revised versions of the papers will be submitted to Open Engineering journal for further peer review. The conference committee can issue supplement or correction requests for these papers. Accepted and published papers can be used as parts of a thesis or a dissertation.
- *Student/discussion papers* should follow the writing guidelines of scientific papers when applicable. The final guidelines will be available in review phase.

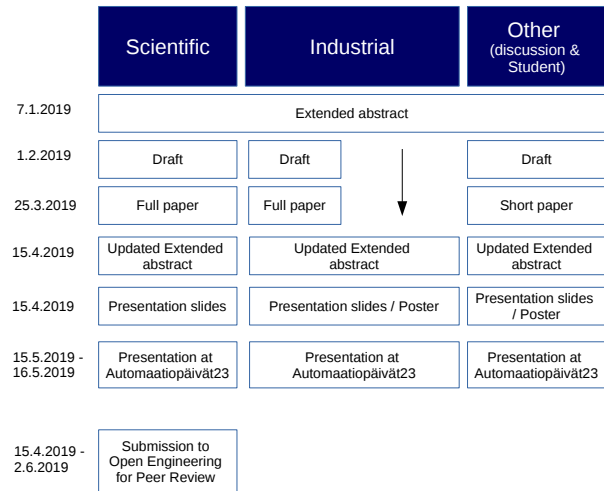


Fig. 1. Timeline of Automaatiopäivät23 conference

Submissions proceed through following steps (Fig. 1):

- The first submission includes title and preliminary extended abstract (Section 2). The attached files (abstract / draft papers) are optional in this stage.
- Conference papers are submitted as draft papers for the review. The review comments are used in revising the papers into final camera ready manuscripts (Section 3).
- Scientific review papers are submitted by the authors to Open Engineering (Section 6).

The scientific papers will be presented orally. The conference committee selects the oral and poster presentations for other types of papers. The conference committee can also change the paper type after the review.

Papers are published in the following levels of detail:

- Short abstracts are included in the conference program.
- All extended abstracts are published in a book of abstracts at the organizer's website www.automaatioseura.fi.
- Traditional and industrial papers will be published in the conference proceedings at the website at the organizer's website www.automaatioseura.fi.
- Selected student / discussion papers can be published as short journal papers (TBD).
- Scientific review papers accepted for Automation in Finland 2019 Special Issue are published only by Open Engineering.

All final extended abstracts, final camera ready papers and revised peer-reviewed papers should follow the paper writing guide (Section 7). Submission deadlines are given at the conference website.

2 Extended abstracts

The extended abstracts are mandatory for all types of papers. They should be structured into the following sections:

- Title which clearly indicates the research topics.
- Authors, names institute, country and email address. The first/presenting author is responsible for ensuring that all authors have agreed to be co-authors.
- Keywords (3-5)
- Background, Aims, Materials and Methods, (Results, Conclusions).
- Figures and tables are allowed.
- Maximum length of the abstract is about 700 words

The extended abstracts are the first submissions and the preliminary ones are updated for the publication. For all the accepted submissions, the final extended abstracts are published in the book of abstracts (Fig. 1).

3 Conference paper

Full seminar papers for Automaatiopäivät23 2019, excluding scientific review papers, will be published at the organizer's website www.automaatioseura.fi. Both the short and extended abstracts will also be published on the Internet, they should be updated to the final version.

Please use the following instructions when writing the abstract and the full paper. You can copy these instructions, delete the contents and use them as a template. Alternatively, you can open a new document and copy the format of this document manually. If you use some text-processing program other than Word, you will have to use the latter option.

The instructions (this file) is available a paper model (AP23_pdf), latex source (AP23_paper.tex) and word file (AP23_paper.docx). The LaTeX processing requires `dgruyter_author.sty` and the bibliography can be prepared alternatively with *BibTeX*. An example *bib* file references.bib is available. The file AP23_paper.zip

includes package for LaTeX processing e.g. in Overleaf (<https://www.overleaf.com/>).

4 Student and discussion papers

Draft papers are required for the student and discussion papers. Further information of publishing will be submitted in the paper review phase.

5 Presentations and posters

Presentations and posters are needed to make the sessions smoothly operating.

6 Open Engineering

6.1 Choice of reviewers

The Editor responsible for a given area of engineering, turns to experts of the subject for opinion. Research articles and communications are reviewed by minimum two reviewers, review papers by at least three.

6.2 Suggestions from authors

Authors are requested to suggest persons competent to review their manuscript. However, please note that this will be treated only as a suggestion, the final selection of reviewers is exclusively the Editor's decision. The reviewers remain anonymous in any case.

The Editor is fully responsible for decision about the manuscript. The final decision, whether to accept or reject a paper, rests with him/her. The Managing Editor only communicates the final decision and informs the author about further processing.

6.3 Revised manuscript submission

When revision of a manuscript is requested, authors should return the revised version of their manuscript as soon as possible. Prompt action may ensure fast publication, if the paper is finally accepted for publication in journal. If it is the first revision of an article authors need to return their revised manuscript within 28 days. If it is the second revision authors need to return their

revised manuscript within 14 days. If these deadlines are not met, and no specific arrangements for completion have been made with the Editor, the manuscript will be treated as a new one and will receive a new identification code along with a new registration date.

6.4 Final proofreading

Authors will receive a PDF file with the edited version of their manuscript for final proofreading. This is the last opportunity to view an article before its publication on the journal's web site. No changes or modifications can be introduced once it is published. Thus authors are requested to check their proof pages carefully against manuscript within 3 working days and prepare a separate document containing list of all the changes that should be introduced. Authors are sometimes asked to provide additional comments and explanations in response to remarks and queries from the language and technical editors. In case the authors do not deliver the list of corrections to proofs in the requested time the manuscript will be published as is.

6.5 Reprints

Because the journal is published in an Open Access model, and has no printed version, the authors receive no reprints.

6.6 Erratum

If any errors are detected in the published material they should be reported to the Managing Editor. The corresponding authors should send appropriate corrected material to the Managing Editor via email. This material will be considered for publication in form of erratum.

6.7 Copyright

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7 Paper writing guide

7.1 Paper elements

1. title page with:
 - (a) title (short title),
 - (b) full name(s) of author(s),
 - (c) name and address of workplace(s),
 - (d) personal e-mail address(es),
2. abstract,
3. up-to five keywords,
4. text,
5. reference lists.

7.1.1 Abstract

An abstract must accompany every article. It should be a brief summary of the significant items of the main paper. An abstract should give concise information about the content of the core idea of your paper. It should be informative and not only present the general scope of the paper but also indicate the main results and conclusions. An abstract should not normally exceed 200 words. It should not contain literature citations or allusions to the tables or illustrations. All non-standard symbols and abbreviations should be defined.

In combination with the title and key-words, the abstract is an indicator of the content of the paper. Authors should remember that on-line systems rely heavily on the content of titles and abstracts to identify articles in electronic bibliographic databases and search engines. They are therefore requested to take great care in preparing these elements.

7.1.2 Text

7.1.2.1 General rules for writing

- use simple and declarative sentences, avoid long sentences, in which the meaning may be lost by complicated construction;
- be concise, avoid idle words;
- make your argumentation complete; use commonly understood terms; define all non-standard symbols and abbreviations when you introduce them;
- explain all acronyms and abbreviations when they first appear in the text;
- use all units consistently throughout the article;
- be self-critical as you review your drafts.

Figure 1

Fig. 2. A figure caption should be placed **below** the figure.

7.1.2.2 Structure of a paper

Research papers and review articles should follow a strict structure. Generally a standard scientific paper is divided into:

- introduction: you present the subject of your paper clearly, you indicate the scope of the subject, you present the goals of your paper and finally the organization of your paper;
- main text: you present all important elements of your scientific message;
- conclusion: you summarize your paper.

Experimental part and/or calculations should be presented in sufficient details to enable reader to repeat the original work.

7.1.2.3 Footnotes/End-notes/Acknowledgments

We encourage authors to restrict the use of footnotes. If necessary, please make end-notes rather than footnotes. Allowable footnotes/end-notes may include:

- the designation of the corresponding author of the paper;
- the current address of an author (if different from that shown in the affiliation);
- traditional footnote content.

7.1.2.4 Tables

Authors should use tables only to achieve concise presentation, or where the information cannot be given satisfactorily in other ways. Tables should be numbered consecutively using Arabic numerals and referred to in the text by number. Each table should have an explanatory caption which should be as concise as possible.

7.1.2.5 Figures

Authors may use line diagrams and photographs to illustrate theses from their text. The figures should be clear, easy to read and of good quality. Styles and fonts should match those in the main body of the article. All figures must be mentioned in the text in consecutive order and be numbered with Arabic numerals.

Figure 2

Fig. 3. A figure caption for Fig. 3.

7.1.2.6 Typesetting

Type main text in roman (upright) font. The chemical symbols and compounds, units of measure, most multi-letter operators and functions should be written in roman upright as well. The variables, constants, symbols for particles, most single-letter operators, axes and planes, channels, types (e.g., n, p), bands, geometric points, angles, lines, chemical prefixes, symmetry designations, transitions, critical points, color centers, quantum-state symbols in spectroscopy, and most single-letter abbreviations should be written in roman italic. Boldface roman type is reserved for indicating vectors and in some special cases matrices.

7.1.2.7 Mathematical symbols

The multiplication signs are reserved for a vector product ($\mathbf{A} \times \mathbf{B}$) and simple dot product ($\mathbf{A} \cdot \mathbf{B}$). The only exception are numbers expressed in scientific notation (9.7×10^3 MeV).

7.1.2.8 Units

Units and dimensions should be expressed according to the metric system and SI units. This system is based on: meter (m), second (s), kilogram (kg), ampere (A), kelvin (K), mole (mol), and candela (cd). Most units are spaced off from the number, e.g. 12 mV. The only exceptions are:

$$1\%, 1\text{‰}, 1^\circ\text{C}, 1^\circ, 1', 1''.$$

Decimal multiples or sub-multiples of units are indicated by the use of prefixes

$$\mu=10^{-6}, \text{ m}=10^{-3}, \text{ c}=10^{-2}, \text{ d}=10^{-1}, \text{ da}=10^1, \text{ h}=10^2, \\ \text{ k}=10^3, \text{ M}=10^6, \text{ G}=10^9, \text{ etc.}$$

Compound units are written as

$$4221.9 \text{ J kg}^{-1} \text{ K}^{-1} \text{ or } 4221.9 \text{ J}/(\text{kg K}),$$

with a thin space between unit parts.

Authors should indicate precisely in the main text **where tables and figures should be inserted**, if these elements are given at the end in the origi-

nal version of the manuscript (or supplied in separate files). If this information is not provided along with the manuscript, we will assume that the figures and/or tables should be insert at the closest position to first reference to them in the published paper.

7.1.2.9 Multimedia and images

Authors can attach files in most popular formats, including (for example):

- images in BMP, GIF, JPEG formats,
- multimedia files in MPEG or AVI formats.

However please keep to file types that are read by standard media players (e.g. RealPlayer, Quicktime, Windows Media Player) and/or standard office applications (Adobe Acrobat Reader, Microsoft Office etc.).

Your attachments may be accessible through links to external locations or to our internal locations (if you choose the second option, please remember to send us your attachments).

Please remember that your images, video and animation clips are intended for Internet use and we need to consider the needs of users with slow Internet connections. Please try to minimize file sizes by using a lower resolution or number of colors for images and animations (as long as the material is still clear). To help you in formatting your images (including tables and figures) or multimedia files, please submit your paper with separate attachments, which are used in your paper.

7.1.2.10 English language

Journal is published only in English. Make sure that your manuscripts are clearly and grammatically written. Please note that authors who are not native-speakers of English can be provided with help in rewriting their contribution in correct English. Try to prepare your manuscript in an easily readable style; this will help avoid severe misunderstandings which might lead to rejection of the paper.

7.1.3 Reference list

A complete reference should give the reader enough information to find the relevant article. All authors (unless there are six or more) should be named in the citation. If there are six or more, list the name of the first six authors followed by “et al.”. Please pay particular attention to spelling, capitalization and punctuation

here. Completeness of references is the responsibility of the authors. A complete reference should comprise the following:

7.1.3.1 Reference to an article in a journal

Elements to cite: Author’s Surname Initials., – if more authors, see examples below, Title of paper, Title of journal – abbreviated according to the ISI standards¹, year of publication, volume number, page or article number. Please supply DOI or URL for e-version of the papers. See Refs. [1, 2] for example.

7.1.3.2 Reference to a book

Elements to cite: Author’s Surname Initials., Title, Edition – if not the first (Publisher, Place of publication, Year of publication) [3].

7.1.3.3 Reference to a part/chapter book

Elements to cite: Author’s Surname Initials., Title of chapter, In: Editor’s Surname Editor’s Initials. (Ed.), Book Title, Edition – if not the first, Publisher, Place of publication, Year of publication page number [4].

7.1.3.4 Reference to a conference proceedings

Elements to cite: Surname Author’s Initials., Title of paper, In: Editor’s Surname Editor’s Initials. (Ed.), Conference, (date, place town and country) of conference), Publisher, place of publication, year of publication, page number [5].

7.1.3.5 Reference to a thesis

Elements to cite: Author’s Surname Initials. , D.Sc./Ph.D./M.Sc./B.Sc. thesis, University, town, country, year of publication [6].

7.1.3.6 Reference to an article in a newspaper

Elements to cite: Surname Author’s Initials., Title of paper, Newspaper Title, date of publication, page number [7, 8].

¹ http://images.isiknowledge.com/WOK46/help/WOS/0-9_abrvjt.html

7.1.3.7 Reference to a patent

Elements to cite: Originator, Series designation which may include full date [9].

7.1.3.8 Reference to a standard

Elements to cite: Standard symbol and number, Title [10, 11].

Please add language of publication for materials which are not written in English. Indicate materials accepting for publications by adding “(in press)”. Please avoid references to unpublished materials, private communication and web pages.

You should make sure the information is correct so that the linking reference service may link abstracts electronically. For the same reason please separate each reference from the others.

Before submitting your article, please ensure you have checked your paper for any relevant references you may have missed.

7.1.4 Submission formats

Manuscripts for journal should be submitted in the L^AT_EX format with figures in EPS, PDF or PNG format.

7.1.5 Supplementary data

You can also submit any supplementary data files as well. These may include long tables (in HTML or plain TXT format) or movies (preferably in AVI format).

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