

Template for articles in “FCAA” journal and instructions to authors

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Abstract [Text of the abstract](#). ... This text, up to half of page, should give a comprehensive idea about the article’s subject and authors’ results, so to be enough informative and to attract the readers. The text of Abstract, as well as References list, Citation information and Dates (Received/Revised, etc.) will be seen for all readers of the article, at the [SpringerLink website of the journal](#), <https://www.springer.com/journal/13540>.

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1 Introduction

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Include [References](#) items directly between `\begin{thebibliography}{99}` and `\end{thebibliography}`, arranged in Alphabetic order of authors' families and following strictly the style of the examples in last section. Check if each item is indeed cited in the text.

2 Second section of the paper

Text text text ... (for details, see [3], [7], [?], [6]) ...

Definition 1 Text of Definition 1

2.1 Preliminary results

Theorem 1 *Text of Theorem 1*

Proof Give here the proof of Theorem 1. Example for a numbered equation:

$$ax^2 + bx + c = 0. \quad (2.1)$$

Provided the condition is fulfilled

$$\Delta = b^2 - 4ac > 0,$$

equation (2.1), has two different solutions ...

The details of proof follows as in Ref. [6].

□

Corollary 1 *Text of Corollary 1*

Proof Here comes the proof of Corollary 1.

□

3 Next section of the paper

Text ... text ...

As seen in Section 2, Theorem 1, provided $a \neq 0$, the equation (2.1) has the solutions

$$x_{1,2} = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}. \quad (3.1)$$

Proposition 1 *Text of Proposition*

Example 1 Let us take in (3.1) ... Then, by Theorem 1, we have ...

Example 2 Under the same conditions as in Example 1, we consider the case ...

4 This is an example for first level head–section head

4.1 This is an example for second level head–subsection head

4.1.1 This is an example for third level head–subsubsection head

Sample body text. Sample body text. Sample body text. Sample body text.

5 Figures and tables

The figures should be input in the L^AT_EX file by eps-files, as below.



Fig. 1 Description for the figure above

Often the figures include texts or Latin, Greek etc. letters, using fonts that are not basic for journal’s style, e.g. Helvetica, etc. We kindly ask the authors

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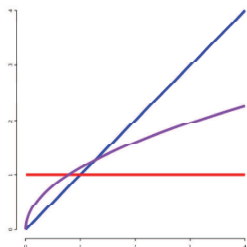


Fig. 2 Derivatives of function $f(x) = x$ of order 1 and order $1/2$

Tables can be inserted via the normal table and tabular environment.

first	second	third
number	number	number
number	number	number

Table 1 Please write your table caption here

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Environments such as figure, table, equation and align can have a label declared via the `\label{#label}` command. For figures and table environments use the `\label{}` command inside or just below the `\caption{}` command. You can then use the `\ref{#label}` command to cross-reference them. As an example, consider the label declared for Figure 1 which is `\label{fig:1}`. To cross-reference it, use the command `Figure \ref{fig:1}`, for which it comes up as “Figure 1”.

7 Conclusions

Conclusions may be used to restate your hypothesis or research question, emphasize your major findings, explain the relevance and the added value of your work, highlight any limitations of your study, describe future directions for research and recommendations. But do not simply repeat Abstract or phrases from Introduction.

8 First appendix

An appendix contains supplementary information that is not an essential part of the text itself but which may be helpful in providing a more comprehensive understanding of the research problem or it is information that is too cumbersome to be included in the body of the paper.

Pay attention to have proper 2-digits numbers of equations there.

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Conflict of interest

The authors declare that they have no conflict of interest.

References

1. Author, I.: Article title. Journal Name **Vol**(Issue), page numbers (year)
2. Author, II.: Book Title. Publisher, Place (year)
3. Gasper, G., Rahman, M.: Basic Hypergeometric Series. Cambridge University Press, Cambridge (1990)
4. Machado, J.A.T., Kiryakova, V.: The chronicles of fractional calculus. Fract. Calc. Appl. Anal. **20**(2), 307–336 (2017). DOI: 10.1515/fca-2017-0017
5. Machado, J.A.T., Kiryakova, V.: Recent history of the fractional calculus: data and statistics. In: Kochubei, A., Luchko, Yu. (eds.) Handbook of Fractional Calculus with Applications: Basic Theory, vol. 1, pp. 1–21. Walter de Gruyter GmbH, Berlin (2019). DOI: 10.1515/9783110571622-001
6. Moak, D.S.: The q -analogue of the Laguerre polynomials. J. Math. Anal. Appl. **81**(1), 20–47 (1981)
7. Rosenblum, M.: Generalized Hermite polynomials and the Bose-like oscillator calculus. In: Operator Theory: Advances and Applications, 369–396, Birkhäuser, Basel (1994)
8. T_EX Users Group (TUG), <http://www.tug.org>

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