

1 **A 21st Century Article Class for the**

2 ***Bulletin de la Société Royale des Sciences de Liège***

3 Guy MUNHÔVEN¹, Harry HARRISON^{2,3,*}, Lisa LISANDER¹, Leonie VAN LEON²

4 and Lotta LOTHARDIS⁴

5 ¹ Institute of Random Affairs, Probability Island

6 ² Randomness International Inc., San Believable

7 ³ Institute of Improbability, Impossible City

8 ⁴ Double Blind Testing Inc., Great Opportunities

9 * Corresponding author: harry@randomness.com

10 **Abstract**

11 The whole document is formatted with the Times New Roman font and a line spacing of 1.15
12 (double line spacing with the “manuscript” option). The font size is 12 everywhere except in
13 some titles. Text paragraphs are justified to the left and right margins. The `\LATEX` class
14 takes care of all these requirements; it is sufficient to use the adequate sectioning commands.

15 If your article is written in English, please provide a first abstract in English in the `abstract`
16 environment. You may, at your convenience, add a French translation of this abstract in the
17 `altabstract` environment (see below).

18 A list of keywords, separated by commas, can be added with the `\keywords{...}` com-
19 mand right after the abstract. For papers dealing with mathematical subjects, it is recom-
20 mended to further add the relevant Mathematics Subject Classification (MSC) codes, separated

21 by spaces, with the `\msccodes{...}` command. Please use the MSC2020 revision for the MSC
22 codes (see <https://doi.org/10.4171/NEWS/115/2> for details).

23 **Keywords:** some keyword, another keyword, yet another one

24 **MSC:** 65F15 65G50 15-04 15B99

25 **Résumé**

26 **Une classe article pour le *Bulletin de la Société Royale des Sciences de Liège au XXI^e siècle*.**

27 Tout article rédigé en anglais peut être accompagné d'une traduction du résumé principal (dans
28 l'environnement abstract ci-dessus) et repris dans l'environnement altabstract. Cette tra-
29 duction commence par le titre traduit en français, mis en gras (à faire manuellement à l'aide
30 de `\textbf{...}`), immédiatement suivi de la traduction du résumé (sans saut de ligne). Si
31 des mots-clé ont été donnés en anglais, ils doivent aussi être traduits et inclus à l'aide de la
32 commande `altkeywords` après le résumé traduit. Il n'y a pas besoin de répéter les codes MSC.
33 Les titres des résumés et des champs « Mots-clés » sont automatiquement adaptés en fonction
34 de la langue.

35 *If your manuscript is written in English, you may, at your convenience, add a French trans-*
36 *lation of the abstract in the altabstract environment. This second abstract starts with the title*
37 *translated into French, typeset in bold, immediately followed by the translation of the summary*
38 *(without a line break).*

39 *If you have provided keywords in English after the main abstract above, please translate*
40 *these as well and include them with the `altkeywords{...}` command right after the trans-*
41 *lated abstract.*

42 **Mots-clés :** un mot-clé, un autre mot-clé, encore un autre mot-clé

43 **1. \section{...}: Level 1 title**

44 The submitted file must include line numbers for the convenience of reviewers. In this
45 L^AT_EX class, line numbering is automatically activated when selecting the manuscript option;
46 by default it is deactivated. The publisher will add (i) a header with the bibliographic reference
47 including the Digital Object Identifier (DOI), (ii) page numbers (iii) a line with the dates of sub-
48 mission and acceptance and (iv) the mention of the open access Creative Commons CC BY 4.0
49 license.

50 **1.1. \subsection{...}: Level 2 title**

51 All paragraphs in the main text are indented by about 0.75 cm. The figures and tables
52 should be placed close to the paragraph where they are referred to for the first time. They might
53 be moved by the publisher during the final formatting.

54 Footnotes or endnotes are *not allowed*.

55 *1.1.1. \subsubsection{...}: Level 3 title*

56 Mathematical equations involving fractions or other “multi-level” typography must appear
57 on separate lines:

$$(1+x)^n = 1 + \frac{nx}{1!} + \frac{n(n-1)x^2}{2!} + \dots \quad (1)$$

$$y = \int_a^b x \, dx \quad (2)$$

58 The usual equation and eqnarray environments should be used for this purpose.

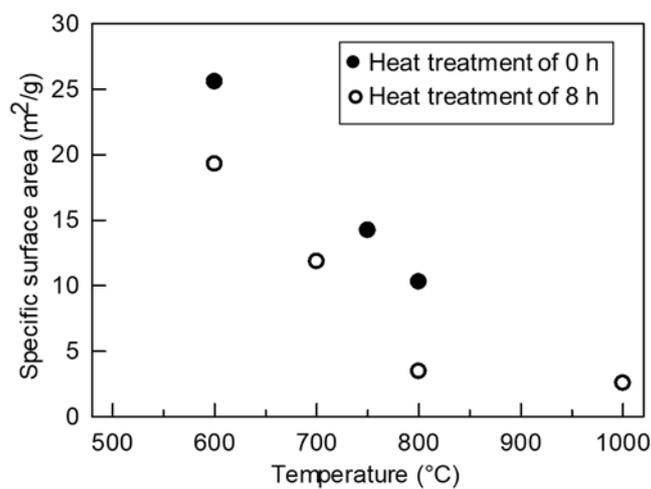


Figure 1: Example of figure. The figure is centered. If any, the text/symbols/curves are large or broad enough to be easily visible. The authors may be contacted by the publisher if changes in the format or resolution of the figure are needed. Figures made up of several parts should be provided as a single file. The legend is centered if it consists of a single line. If not, the legend is justified to left and right margins reduced by 2 cm from the main text margins (leaving a width of $21 - 2 \times 2.5 - 2 \times 2 = 12$ cm).

Table 1: Example of table formatting. The legend is centered if it consists of a single line. If not, the legend is justified to left and right margins aligned with the table. A simple structure is recommended for tables. Please consider that in the html version, the text in each cell will be left-aligned. More complex tables will be treated as figures to safeguard their structure.

Column 1	Column 2	Column 3	Column 4
abc	123	456	789
abc	123	456	789
abc	123	456	789
abc	123	456	789

59 1.1.1.1. `\subsubsection{...}`: Level 4 title

60 References can be listed alphabetically by the first author's last name, with in-text citation
61 in (Author, Year) style. Alternatively, the references can be numbered in order of appearance
62 in the text [*n*]. All common formats of references are accepted, but consistency throughout the
63 reference list is required.

64 Here some actual L^AT_EX-style citation examples. We recommend to use the `natbib` pack-
65 age, which allows to easily switch between the numbered and the author-year based styles,
66 simply by requesting the adequate bibliography style with the `bibliographystyle` command,
67 and adding (resp. removing) the `numbers` option with the `usepackage{natbib}` declaration.
68 With numbered references, it is nevertheless also possible to use the standard L^AT_EX `\cite`
69 commands.

70 The two citations have been included in the manuscript text with `natbib`'s citation com-
71 mand `\citep{paper1,paper2}` and appear in the text as [1, 2]. This class is completed by
72 four BibT_EX style files:

- 73 • `bullsrsl-en.bst` for author-year citations in English manuscripts (requires the `natbib`
74 package);
- 75 • `bullsrsl-fr.bst` for author-year citations in French manuscripts (requires the `natbib`
76 package);
- 77 • `bullsrsl-numen.bst` for numbered citations in English manuscripts;
- 78 • `bullsrsl-numfr.bst` for numbered citations in French manuscripts.

79 Please chose the one that best suits your need. In case you change your mind regarding the cita-
80 tion style during writing, please remove the `*.aux` and `*.bbl` files, adapt the name of the `*.bst`

81 file in the `\bibliographystyle{...}` (at the end), and adapt `natbib` options if necessary (in
82 the preamble).

83 **Acknowledgments**

84 This section is optional.

85 **Further Information**

86 **ORCID identifiers of the authors**

87 0000-1111-2222-3333 (Harry HARRISON)

88 1111-2222-3333-4444 (Leonie VAN LEON)

89 2222-3333-4444-5555 (Lotta LOTHARDIS)

90 *This section is optional. You may list here the ORCID^s of those authors who would like*
91 *to share them, one per line, with the `\orcid{ORCID}{First name}{Last name}` command.*
92 *This command typesets the information, and makes the ORCID^s themselves active links to the*
93 *corresponding records on orcid.org.*

94 *Unlike in this sample, no other text should actually be included here and this section should*
95 *reduce to a bare list. The `\orcid` command controls line feeds by itself; please do not insert*
96 *any `\\` or `\newline` before or after them.*

97 **Author contributions**

98 This section is mandatory when there is more than one author. The contributions of each author
99 (identified by their initials) must be declared. We recommend to follow the CRediT taxonomy
100 (Contributor Roles Taxonomy).

101 **Conflicts of interest**

102 This section is *mandatory*. Authors must declare any personal or professional circumstances
103 that may be perceived as influencing the research reported in the paper. If there is no conflict of
104 interest, please state that “The authors declare no conflict of interest.”

105 **References**

- 106 [1] Firstauthor, T. and Else, Y. S. (2019) The randomest experimental results ever. The Journal
107 of Experimental Randomness, 34(24), 45–46. <https://doi.org/10.9988/34.24.45-46>.
- 108 [2] Cares, N. and Thiswas, W. (1947) A true coincidence. Bulletin of Random Experiments,
109 77(2), 456–789. <https://doi.org/10.9999/45.77>.