

A Brief Guide for Preparing Abstracts to ICMMES-2010 Using L^AT_EX

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This file provide a L^AT_EX template for the abstracts to be submitted to the ICMMES Conferences.

The front matter of the abstract must include the following:

- Title of the work;
- Author(s), and the author to present the work in ICMMES-2010 should be underlined;
- Affiliations of authors and at least the email of the corresponding author;
- Keywords of the work.

The main body of the abstract should succinctly describe the work to be reported.

The abstract can include the equations such as the following [4]:

$$\mathbf{f}(\mathbf{x}_j + \mathbf{c}\delta_t, t_n + \delta_t) = \mathbf{f}(\mathbf{x}_j, t_n) - \mathbf{M}^{-1} \cdot \mathbf{S} \left[\mathbf{m} - \mathbf{m}^{(\text{eq})} \right], \quad (1)$$

where \mathbf{M} is a $Q \times Q$ matrix, \mathbf{S} is a $Q \times Q$ diagonal non-negative matrix, and \mathbf{c} denotes the discrete velocity set

$$\mathbf{c}_i = \begin{cases} (0, 0), & i = 0, \\ (\pm 1, 0), (0, \pm 1), & i = 1-4, \\ (\pm 1, \pm 1), & i = 5-8. \end{cases} \quad (2)$$

The lattice Boltzmann equation (1) can be used to solve the time dependent (incompressible) Navier-Stokes equation:

$$\partial_t \mathbf{u} + \mathbf{u} \cdot \nabla \mathbf{u} = -\nabla p + \nu \nabla^2 \mathbf{u}. \quad (3)$$

The abstract should described briefly what has been accomplished in the work, and the main results, observations, and conclusions of the work.

The figures and tables can be included in an abstract. As an example, we include a figure with four parts, as shown in Fig. 1. **The length of an abstract should not exceed two pages.**

The abstract should also provide a list of *key* references relevant to the work, such as [1–4].

The latex file from you will be use to produce a program book including all the abstracts. To save labor and time, please read this instruction carefully and adhere to the following “rules”:

1. Please do NOT use L^AT_EX “micros” — they may conflict with others;

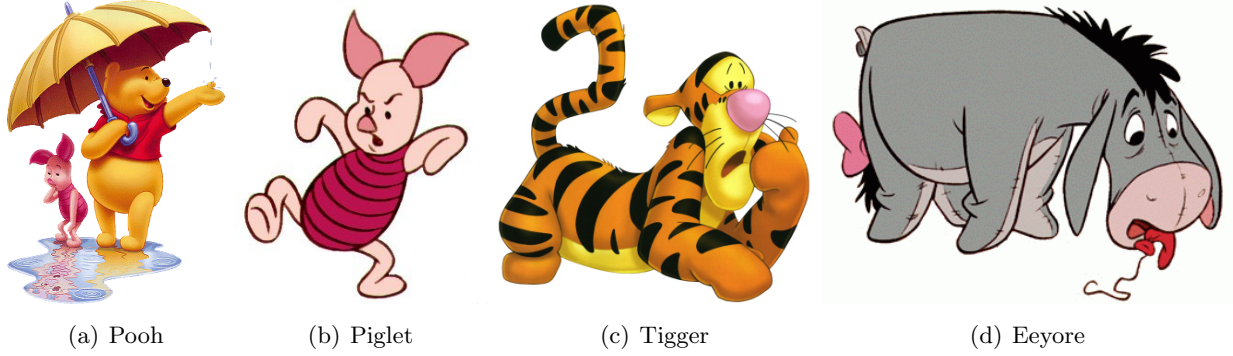


Figure 1: We recommend to use figures in `png` and `pdf` format. If you have `eps` or `ps` figures, you can use `ps2pdf` to convert `eps` or `ps` files to `pdf` ones, or use `gimp` (or other converters) to save figure in `png` or `pdf` format. You can use `pdflatex` to produce a `pdf` file.

2. Please submit one \LaTeX source file for each abstract; avoiding submitting several latex files (*e.g.*, a separate reference file).
3. The references should be included in the \LaTeX source using “`thebibliography`” environment with \LaTeX command `\bibitem`, as shown in this file. If you use `bibtex`, you can copy the `.bbl` file generated by `bibtex` into the \LaTeX source;
4. Please use \LaTeX command `\cite` to cite references; and use `\label` and `\ref` for labeling and referencing, respectively, equations, figures, and tables;
5. Please do provide a valid email address for the corresponding author;
6. If there are more than one authors, the author to present the work should be underlined.

For those who are not familiar with using \LaTeX , please refer to the *User’s Guide and Reference Manual* by L. Lamport [5], or other references, such as [6].

References

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