LaTeX Template for AFMC2024 Extended Abstracts

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1 Introduction

Non-listed papers may be submitted to AFMC2024 as extended abstracts, which must follow the template in Microsoft Word format or LaTeX format (this file). Please edit the template directly to construct your extended abstract. Papers that do not conform to this style will NOT be accepted.

Extended abstracts should include an **Introduction**, providing a statement of the problem. The **Introduction** may also contain a brief summary of relevant literature with references to published works. The main body of the extended abstract may contain one or more Sections with properly numbered headings such as **"2. Approach"** and **"3. Results"**. Avoid having subsections in extended abstracts.

Extended abstracts including references should not exceed two A4 pages and should be uploaded as PDF files for review. Replace "999" with your Submission ID in the papernumber definition at the beginning of the LaTeX document.

2 Formatting Requirements

Please retain the Latex fonts included in the template. The title has the first letter of major words capitalised. Author affiliations include "Department, Institution, City, State, Postcode, Country" and are identified using superscripts. The email of the corresponding author should be given as shown by the example above.

The references are listed in alphabetical order (by first author) and formatted as shown for journal articles (Cooley & Tukey, 1965), conference proceedings (McCormick, 1994), books (Goosens *et al.*, 1994) and edited books (Rosenhead, 1963) at the end of this template. Make sure you understand the distinction between \cite and \citep in Latex. All papers included in the References section must be cited in the article, and vice versa.

Figures and tables are centred in the column of text, and the width should not exceed the width of the text column. Text in tables and figures should be no smaller than font size 10. Colour may be used in figures and tables. Figures and tables must be sequentially numbered and labelled. Figures should be referenced in the text as figure(s), only capitalised at the start of a sentence, and similarly for tables. Figures and tables are referred to as " table 1" and "figure 1(a)". Care should be taken when reducing the size of figures. Make sure that the figure and all text labels in the figure are still legible.

Mesh	No. of Cells	C_D	C_L	St
M1	16,192	1.538	1.034	0.245
M2	64,792	1.546	1.053	0.241
M3	261,600	1.547	1.064	0.239

Table 1. This table and its caption are centred, and its width does not exceed the width of the text.
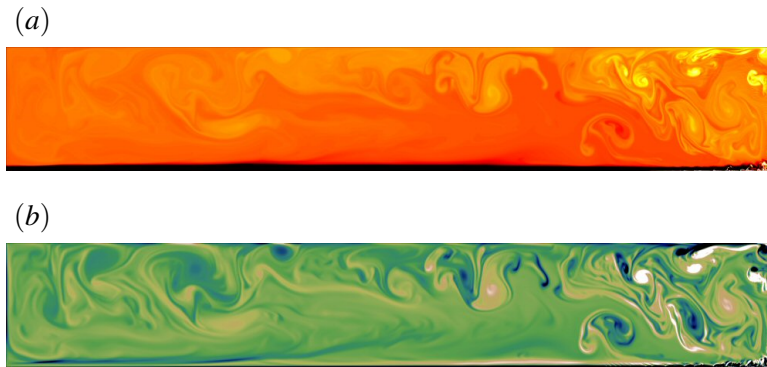
3 Equations

Equations must be centred with a number flush against the right margin as in

$$\frac{\partial \overline{u_i}}{\partial t} + \frac{\partial \overline{u_i u_j}}{\partial x_i} = -\frac{1}{\rho}\frac{\partial \overline{p}}{\partial x_i} + \nu\frac{\partial^2 \overline{u_i}}{\partial x_j \partial x_j} - \frac{\partial \tau_{ij}}{\partial x_j} = 0, \tag{1}$$

$$\frac{\partial \overline{u_i}}{\partial x_i}. \tag{2}$$

(a)

(b)

Figure 1. This figure and its caption are centred and its width does not exceed the width of the text.

with all symbols defined in the text. It may be possible to load latex packages such as amsmath or new commands into this template, but this is not guaranteed (please embed all fonts in pdf files).

The above equations should be referred to as "eq. (1)" and "eq. (2)", respectively. This should only be capitalised ("Eq.") at the beginning of a sentence. Care should be taken when splitting equations up over more than one line.

4   Conclusions

You should include a brief conclusion section which summarises the major findings of your paper.

Acknowledgments

References

Cooley, J.W. and Tukey, J.W. 1965, An Algorithm for the Machine Computation of Complex Fourier Series, *Math. Comp.*, **19**, 297–301.

Goosens, M., Mittlebach, F. and Samarin, A. 1994, *The LaTeX Companion*, Addison–Wesley.

McCormick, S. 1994, Multilevel Projection Methodology, in *Computational Techniques and Applications: CTAC93*, editors D. Stewart, H. Gardner and D. Singleton, World Scientific, 54–57.

Rosenhead, L. (editor), 1963, *Laminar Boundary Layers* Oxford, Clarendon Press.