

# Abstract Template for 10th International Conference on Computational Fluid Dynamics, Barcelona, Spain 2018

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## 1 Introduction

Please use this adapted version of the full paper to provide the 1-2 page abstract, please include details of the problem and a brief summary of your findings.

## 2 Problem Statement

This document allows you to easily include references [1, 2], equations, figures (see Figure 1) or anything else you desire into a clean and compact environment of  $\text{\LaTeX}$ . For example if you'd like to impress a date you can write the unsteady heat equation as

$$\frac{\partial \mathbf{V}}{\partial t} - \alpha \left( \frac{\partial^2 \mathbf{V}}{\partial x^2} + \frac{\partial^2 \mathbf{V}}{\partial y^2} + \frac{\partial^2 \mathbf{V}}{\partial z^2} \right) = 0 \quad (1)$$

where  $x, y, z$  are the space dimensions and  $\alpha$  is a parameter. If you felt inclined you could define  $\mathbf{V}$  as

$$\mathbf{V} = y^2 z - \cos(0.1x)$$

for a non-exact solution. Computational fluid dynamics [3] can be used to discretize the equations, apply boundary conditions and simulate the unsteady nature of the flow. An innovative method to simulate the heat equation could even be submitted to ICCFD10.

### 2.1 Subsection Title Example

#### 2.1.1 Sub-subsection Title Example

## References

- [1] J. Doe. *Important book title: A complete work*. ACME, 2012.
- [2] John Doe and B. Schmit. Novel approach to innovation and synergy. *Int. J. Sci. Tech.*, 54(3):695–706, 2012.
- [3] C. F. D. Expert. *CFD for Dummies*. AIAA Paper 2010–0000, 2010.
- [4] ICCFD Committee. ICCFD Website. [<http://www.iccfd.org/>], 2012.



Figure 1: This is the logo of ICCFD.