**Title: Template for Extended Abstracts - PPHMES 2017 (Times New Roman, 16pt, bold, centered, single spacing, insert one blank line before the author’s name)**

J.P. Dias1\*, A. Cunha Jr.2 (Times New Roman, 12pt, normal, centered, single spacing)

*1Department of Mechanical Engineering, Texas Tech University, Lubbock, TX, USA*

*2NUMERICO – Nucleus of Modeling and Experimentation with Computers, Rio de Janeiro State University, Rio de Janeiro, RJ, Brazil (Times New Roman, 12pt, italic, centered, single spacing)*

\*Corresponding author: [joao-paulo.dias@ttu.edu](mailto:joao-paulo.dias@ttu.edu) (Times New Roman, 12pt, normal, centered, single spacing, insert one blank line before the Keywords)

Keywords: keyword 1, keyword 2, keyword 3, ... up to 5 (Times New Roman, 12pt, normal, left aligned, single spacing, insert two blank lines before the Introduction)

**1. INTRODUCTION (TIMES NEW ROMAN, 12PT, UPPER CASE, BOLD, CENTERED, LEFT ALIGNED)**

Briefly describe the context, motivation and research question/proposition(s) addressed for the study. References should be cited using numbers between square brackets, [1], [2-5], [1, 2-5] (Times New Roman, 12pt, normal, justified, single spacing, insert one blank line before the sub-sections)

* 1. **Sub-section 1** (Times New Roman, 12pt, normal, bold, left aligned, single spacing)

Use only one level sub-sections. (Times New Roman, 12pt, normal, justified, single spacing, insert two blank lines before the next section)

**2. METHODOLOGY (TIMES NEW ROMAN, 12PT, UPPER CASE, BOLD, CENTERED, LEFT ALIGNED)**

Provide an overview of the research design and experimental/theoretical procedure of the analysis. (Times New Roman, 12pt, normal, justified, single spacing, insert one blank line before the equation)

. (1)

Use MS Equation Editor to write equations with the font size 12 pts and left aligned. Equation numbers should be right aligned. Insert one blank lines before and after equations. (Times New Roman, 12pt, normal, justified, single spacing, insert two blank lines before the next section)

**3. RESULTS (TIMES NEW ROMAN, 12PT, UPPER CASE, BOLD, CENTERED, LEFT ALIGNED)**

Summarize the key findings of the study. (Times New Roman, 12pt, normal, justified, single spacing, insert one blank line before tables and figures)

Table 1. Coefficients of the polynomial function (Times New Roman, 12pt, normal, centered, with NO spacing before the table)

|  |  |
| --- | --- |
| *Coefficient* | *Value* |
| *a* | 1 |
| *b* | 0 |
| *c* | 0 |



Figure 1. Curve plot of the polynomial function (Times New Roman, 12pt, normal, centered, with NO spacing after the figure)

**4. CONCLUSIONS (TIMES NEW ROMAN, 12PT, UPPER CASE, BOLD, CENTERED, LEFT ALIGNED)**

State the key conclusion(s) based on the findings and contributions of the study. (Times New Roman, 12pt, normal, justified, single spacing, insert two blank lines before the next section)

**REFERENCES (TIMES NEW ROMAN, 12PT, UPPER CASE, BOLD, CENTERED, LEFT ALIGNED)**

[1] F. Chaari, T. Fakhfakh, and M. Haddar, Analytical modelling of spur gear tooth crack and influence on gearmesh stiffness, *Eur. Journal of Mech. A/Solids* **28.3** (2009), 461-468.

[2] S. Ekwaro-Osire, F.M. Alemayehu, J. Chapman, O. Gecgel, S. Dabetwar, J.P. Dias, and H.B. Endeshaw, Probabilistic Approach to Determine the Efficiency of Wave Energy Conversion System, *Proc. of the ASME International Mech. Eng. Congress and Exposition* (2016), 1-6.

[3] E. Madenci and E. Oterkus, *Peridynamic Theory and Its Applications*, Springer, New York, 2014.

**General Information:**

* Extended abstracts should have at least 500 words, not exceeding 1,000 words;
* Inclusion of figures and tables is optional and should be limited to 2 figures and 1 table;
* Number of references is limited to 5;
* The abstract submission is due on April 21st, 2017;
* All abstracts will be subjected to a peer review process and the authors will be notified about any eventual modification by April 28th, 2017.