

Review of: "Taylor Series Based Domain Collocation Meshless Method for Problems with Multiple Boundary Conditions including Point Boundary Conditions"

Yonglin Li¹

¹ Hong Kong Polytechnic University

Potential competing interests: No potential competing interests to declare.

In this manuscript, the author proposed a new meshless method based on Taylor series for PDEs with multiple boundary conditions. The proposed approach is of sufficient interest and importance for solving PDE numerically. However, some places in this manuscript are unclear or inappropriate. Below are some questions and revisions:

1. Is the article written in LaTeX? The mathematical formulas do not appear to be properly formatted.
2. The punctuation is not properly formatted.
3. Is there any error analysis or convergence analysis related to these methods?
4. I suggest adding some comparative experiments with the traditional methods (e.g., FEM, FDM).
5. The Helmholtz equation used in the experiments is positive definite. Could you provide some tests for the Helmholtz equation which is negative definite, particularly in the high-frequency case?