Review of: "System and Method for One or More Extruders Using a Robotic Arms to Print a 3D Model"

Efrain Rodriguez[1]

1 University of Brasília

The article introduces a "System and Method for One or More Extruders Using Robotic Arms to Print a 3D Model." However, the current manuscript falls short in several critical aspects.

Lack of System Development: The paper lacks a substantial development of the proposed system. Merely presenting a rudimentary CAD model throughout the document is insufficient to demonstrate the functionality or feasibility of the system.

Inadequate Theoretical Foundation: The absence of robust theoretical research and a comprehensive review of state-of-the-art technologies significantly weakens the scholarly merit of the work. It's imperative to provide a solid theoretical foundation to contextualize the proposed approach within the existing body of knowledge.

Confusing Schematic Descriptions: The descriptions of the schematics depicted in some of the figures are unclear and ambiguous. Clarity in illustrating the operational principles of the system is essential for readers to comprehend the proposed methodology accurately.

Absence of Clear Methodology for Multi-Robot 3D Printing: The manuscript fails to delineate a clear methodology for achieving 3D printing with multiple robots concurrently. Given the complexity and extensive research in this field, it's imperative to reference relevant studies and propose a well-defined methodology.

Limited Progression: The current state of the work appears rudimentary, even as a proposal. It is suggested that the author significantly enhances the development of the system and methodology for multi-robot 3D printing to make the manuscript suitable for publication consideration.

Recommendation: I recommend that the author substantially expands upon the development of the proposed system and methodology for multi-robot 3D printing to address the aforementioned deficiencies. Additionally, incorporating a robust theoretical foundation and citing pertinent literature will strengthen the scholarly contribution of the work.