

Peer Review

Review of: "Optimizing Semiconductor Manufacturing for Small and Medium Enterprises: A System-Dynamics and Machine Learning Approach"

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The submitted comprehensive study provides key insights into optimizing semiconductor manufacturing for SMEs operating in low-volume, high-mix production environments. The developed system-dynamics model underscores the critical role of rapid prototyping in enhancing agility and flexibility, which are essential for responding to dynamic market demands and customer-specific requirements. This integration reduces lead times and highlights the importance of efficient inventory management, which is vital for smaller enterprises with limited production capacity and tighter resource constraints.

The methodology of the article, as well as the application of the mathematical apparatus, is appropriately applied in the submitted contribution. The article contains an adequate amount of literature. Current scientific literature is used in the article. It is clear from the presented contribution that it will be necessary to continue the research. The paper is well-structured. The conclusions are clear and in line with the main text. The manuscript is clearly written and could be interesting for researchers in this field.

Declarations

Potential competing interests: No potential competing interests to declare.