

Review of: "Digital twin data-driven proactive job-shop scheduling strategy towards asymmetric manufacturing execution decision"

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Potential competing interests: The author(s) declared that no potential competing interests exist.

The following concerns are raised after reading the paper:

The related literature reviewed should be followed by a comprehensive research gap analysis;

The main contribution is not well described and justified;

The digital twin scheduling concept needs to be more elaborated with respect to different scheduling models given in the literature;

The significance of using **asymmetric manufacturing execution decision** in comparison with other types of decisions in manufacturing already worked out in the literature is not well explained;

What is exactly new in the mathematical formulations should be pointed out;

The numerical study needs more elaboration and analysis using more multi-dimension illustrations;

Tables and figures need to be explained;

The managerial implications should be well discussed in the application areas of the approach.