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# Flexible kanbans to enhance volume flexibility in a JIT environment: a simulation based comparison via ANNs

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for the conventional method of fixed kanban determination. This is also confirmed by a

simulation study using artificial neural networks (ANNs). The main aim of this paper is to show the cost advantage for Hussein et al.'s method over the conventional method in fluctuating demand situations, and especially to prove that simulation via ANNs ensures a simplified representation for this method and is time saving.

Keywords: [just-in-time](#) [kanban](#) [flexibility](#) [volume flexibility](#) [artificial neural networks](#)

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