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The framework of synchronizing material supply approaches with facility layout design for mixed model assembly line (2013) Lecture Notes in Engineering and Computer Science, 2203, pp. 870-875.

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Abstract
facility layout problems (FLPs) are common problem in several manufacturing industries because FLPs have a great impact on production operations. Efficient manufacturing facility layout design could lead to lower manufacturing costs. Therefore, many sub problems should be addressed and considered from design stage. This research proposes a new framework for mix-model assembly line (MAL) manufacturing facility design. Four key objectives to evaluate layout performance and synchronize designs' evaluation processes in order to create optimized manufacturing facility layout are also discussed.

Author Keywords
Automotive; Facility layout design; Material flow path design; Material supply design; Shop design

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