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Superior product change control at cold rolling mills for enhanced productivity

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The paper describes how an expert system automatically calculates the optimal strategy for all product changes based on PDA data, i.e. determining the best combined method of operation from technology clusters such as strip flatness and strip thickness, etc. The next step is to implement digital AI systems that provide forecasts for the optimal product change strategy. Once artificial intelligence provides a sufficient hit rate in its predictions, it generates commands for level 1 and level 2 systems to enable real-time reactions by all mechanical actuators. This system adds value by improving off-gauge length for strip flatness and thickness, as well as enhancing product change stability.

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