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## Enhancing quality control for Long Products with robotics and computer vision

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Steel production necessitates continuous quality monitoring throughout the process. Historically, the steel industry has lagged in adopting certain technological advancements due to its harsh production environment, resulting in lower efficiency and higher risks for workers who perform many operations manually. This study shows the latest developments in the long products quality control, with the implementation of an automated system for some operations, which currently exposes operators to significant danger, like cutting and removing material samples from rods and long products on the cooling bed or measuring laminated surface quality in rolling mill. By automating this task, we aim to enhance production efficiency and improve worker safety.

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