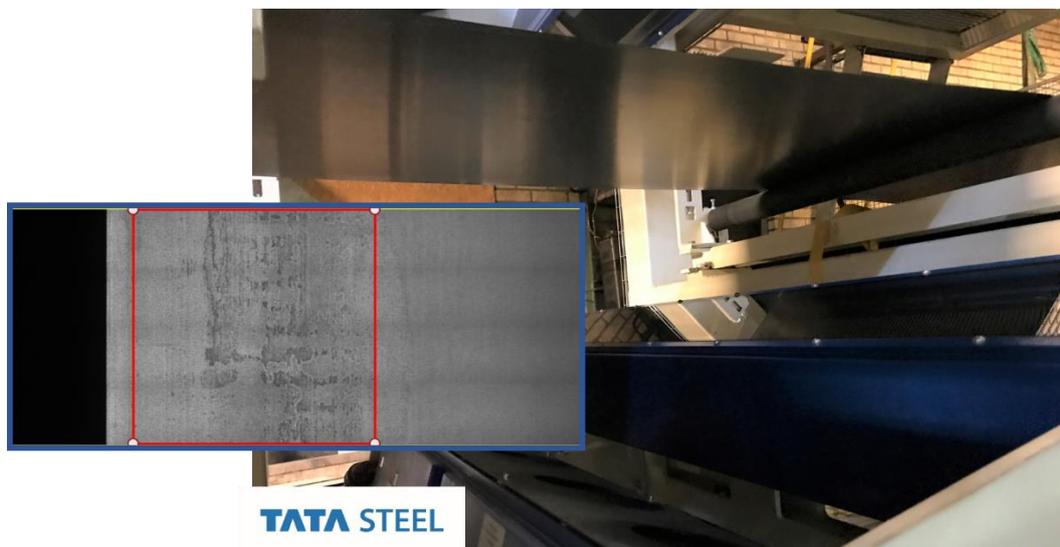# Automated quality control with image recognition is tested by Swedish industry

Increasing demand and higher quality requirements from customers require better control. To meet the need, the companies Nilar and Surahammars Bruks are now testing to automate quality control with the help of advanced image processing in their production facilities. This is part of the recently started project "AI for increased process efficiency" which will implement the results from the previous collaboration with RISE.

Both Surahammars Bruks and the battery manufacturer Nilar are currently testing AI-based image recognition tools.

- We installed the Parsytec system this spring and are now in the commissioning phase, says Feike Politiek, responsible for the installation at Surahammars Bruks.

RISE has, among other things, been a partner in discussions about quantification of defects, specific customer requirements and the system's decision rules. The staff training was carried out last week and now the staff is gradually teaching the system to work in the desired way.

- With the new technology, the inspection process will be different, so it is important to engage our operators in the development in order to be able to create tools based on their needs in an optimized way, Feike Politiek explains.

One goal of the project is to add new functionality to the system when it is in operation. For the battery manufacturer Nilar, RISE developed its own AI-based image recognition tool which is now being tested in Nilar's process.

- This is the first prototype we are testing to provide valuable insight into further development, says Mats Tallfors, who leads the project's AI development at RISE.

2021-06-15

The recently started project "AI for increased process efficiency" is a follow-up to the previous SALLPI project, in which both Nilar and Surahammars Bruks participated. Now with the aim of implementing the results that have emerged. The project uses machine learning and image analysis to automate the inspection process. The goals are to be able to show a reduction in waste by more than 30% and reduce manual work by more than 50%. The project is implemented with RISE as a coordinating partner and expert in AI and is financed through the strategic innovation program PiiA (Processindustrial IT & Automation). PiiA is one of the 17 strategic innovation programs funded by Vinnova, the Swedish Energy Agency and Formas.

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