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Development of Monitoring System Using Vision Technology for Surface Quality of Steel Plate During Heat Treatment

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In the heat treatment process during continuous galvanizing process, oxidation of steel plate due to the air-fuel ratio issues, and heat treatment and tension conditions may cause buckle of steel plate if they are not appropriate. These process issues are identified by the operator in a real time through the camera currently placed in each heat treatment section currently. However, with this method of work, there is a limit to take measures to the occurrence of mass defects caused by human error. Through this study, we developed a real-time monitoring technology that can identify surface quality by converging the cleanliness camera and computer vision technology in the heat treatment during continuous galvanizing process. Finally, it contributed to quality stabilization and productivity improvement by inducing early intervention of operator.

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