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How robotics is transforming the steel production

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This paper introduces a novel approach to enhance safety and efficiency in steel plant operations using smart robotics for steel sampling. Focusing on new robotic technologies for the harsh environments, these advancements reduce human exposure, improve accuracy, and boost productivity. High-speed, precision industrial robots with multi-tool capabilities ensure flexibility to adapt for both greenfields and brownfields. The integration of these customized robotic solutions supports digital transformation, aligning with Industry 4.0 principles, and shifts operational roles from manual to supervisory, enhancing long-term competitiveness.

Speaker Country

Italia

Are you interested in publishing the paper in a Steel Research International special issue?

No

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