

WELDING ARC MONITORING USING ARTIFICIAL VISION

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ABSTRACT

Pulsed arc is very frequently used in automated welding processes due to numerous advantages. It is necessary to monitor the process in order to obtain qualitative welded joints. The modern types of welding processes are using monitoring with artificial vision. This paper presents some aspects related to the pulsed arc monitoring in MIG processes, using artificial vision through ultra-rapid CMOS cameras or filming directly into arc zone.

KEYWORDS: welding, GMAW-P, HDRC, CMOS, camera, artificial vision

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