

What is welding process archiving?

Welding process archiving systems, applied as part of quality management, are capable of storing huge amount of data that can be efficiently processed by big data systems [78,79]. These programs are more efficient when run remotely so that welding robots do not have to be withdrawn from production. 5.4. Cloud computing and cloud manufacturing

What is a digital twin based on a welding production line?

Zheng et al. built a digital twin for a real-time monitoring system based on a welding production line in order to provide a reference for enterprises. Their system ensures operational efficiency of equipment in production line, while providing welding quality data of the product.

How do I Weld my intra 2100/1400?

Turn on the INTRA 2100/1400. When the welding device is turned on, the "System voltage" LED goes on. The welding gun is supplied with 90 VDC and 24 VDC. Select the appropriate weld process (short cycle/drawn arc). The operating mode selector switch setting determines the weld time range.

What sensors are used in arc welding?

Sensors and sensing techniques Analog, digital, and image signal sensors are integrated into welding systems to characterize quantitatively welding parameter information. Example parameters of an arc welding process are current, voltage, travel speed, electrode extension, and electrode diameter.

Can a cloud-based algorithm improve weld quality?

Oto et al. tested a cloud-based algorithm to evaluate weld quality based on the weld seam edge detection. This prototype system segmented low contrast welding images, compared them to weld defect reference images with the help of artificial neural networks, and sent the results back to the weld cell.

What control schemes are used in arc welding?

Various control schemes have been proposed for welding, including position, force, torque, temperature, power, voltage, and current control. For example, in arc welding, control parameters usually include current, voltage, and feed rate.

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