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# Visualization of Spatially Resolved Energy in Wire Electrical Discharge Machining

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## Abstract

For the development of a process monitoring system in wire EDM, a model for mapping the material removal based on process data is necessary. In order to use the causal relationship between the process energy and the material removal, the individual discharges must first be digitally mapped on the machined surface. In the context of this work, the discharge position is detected considering the individual discharge energy in order to allow the mapping of the spatially resolved process energy. For this purpose, test series are carried out to correlate the discharge position with the difference between the upper and lower current using a real-time capable measuring system.

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