

Control of a Wire + Arc Additive Manufacturing process

Additive manufacturing is widely used for quick prototyping. The Wire + Arc Additive Manufacturing process (WAAM) has the advantage of high deposition rates and the capability of manufacturing complex structures. A big throwback on the other hand is the rough dimensions of the weld bead which limits the achievable accuracy. Therefore, a control strategy is proposed to overcome this problem.

- model identification with a recursive-least-squares method
- optimal control
- control of a six-axis robot
- start: ongoing
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