Development of a new heat source using KI for additive manufacturing

Initial Situation
Additive manufacturing is one of the fastest growing industries in the world. In order to compensate the process dependent thermal distortion during laser beam melting, we at iwb have developed an Open Source simulation tool to compensate for this distortion. In order to further improve the simulation results, a new heat source is to be developed that takes the process parameters into account.

Objective
Within the scope of this activity, a new heat source is to be developed and implemented on the basis of an existing one. This new heat source shall consider the influences of the process parameters and component geometry by means of AI. The data for the development of the AI shall be derived from experimental data as well as from numerical simulations.

Profile of Requirements
Interest in the challenges in additive manufacturing, first experience with AI, very good knowledge of German or English.

Kontakt
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