

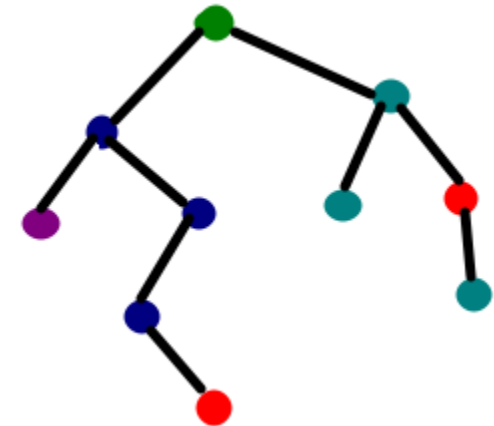
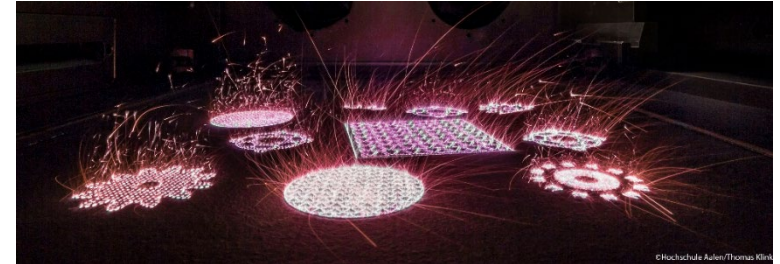
Process optimization of powder bed-based laser beam melting with decision trees

Objectives and your task :

The aim of the thesis is the optimization of an additive manufacturing process with the help of machine learning on the basis of process and plant parameters.

The quality of the components, which are produced in 3D metal printing, depends on a large number of system and process parameters. Decision trees are a method for the automatic classification of data objects and thus for solving decision problems. They are also used for the clear representation of formal rules.

The task of the work includes the development of decision trees in the context of machine learning for optimization of powder bed-based laser beam melting.



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