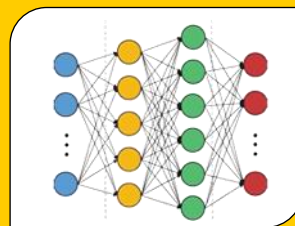


INTELLIGENT PREDICTION OF WOODWORKING MACHINES PERFORMANCE

AI-based modelling of machine tool behaviour

INPUT

Design specifications
(machine features)



OUTPUT

Structural
performance



A new data-driven, resource saving (AI-based) approach, designed to optimize woodworking machines

IPER, the AI-based modelling approach proposed in the experiment, aims to predict the main structural performance of a machine tool, such as statics stiffness, starting from basic design features/parameters. In addition, IPER aspires to accelerate the production process increasing the design precision, flexibility and sustainability of woodworking machines.



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