Institut für Werkzeugmaschinen und Betriebswissenschaften (*iwb*)
TUM School of Engineering and Design
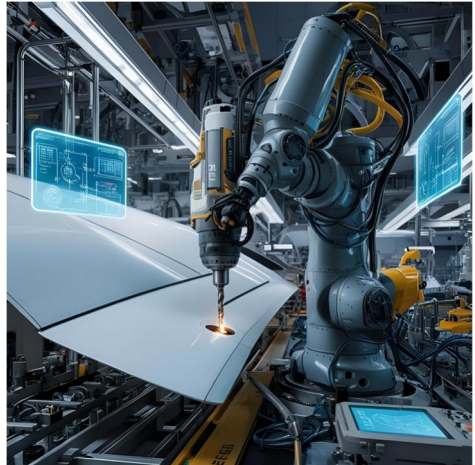Technische Universität München

TUM

IDP: ETL/ELT-Pipeline and Database Design

Background

In aircraft production, rivets are mainly used for the assembly of structural components. For this purpose, drill holes must first be drilled through multi-layer material packages, usually using industrial robots. During experiments we aim to systematically store and later analyze data gathered by the control, spindle and external sensors attached to the robot.

Objective

All this data is currently gathered into an SQL-database and an InfluxDB. This IDP should propose, create and evaluate a reliable ETL/ELT-pipeline to combine this data into one major database. Potentially, this could be further developed to also create a specific database for analysis tasks.

This could also be adapted to the scope of a group project.

Requirements

Experience with databases, ideally with ETL/ELT-pipelines. Initiative and a structured way of working, reliability and commitment.

Contact

M. Sc. Charlotte Winkler
Department Machine Tools
charlotte.winkler@iwb.tum.de

Veröffentlicht am :_____