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Optimization of the data transfer of tool models by manipulation of the transfer data files

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Data exchange is the foundation of a network world. Through the global operating range of companies, complex supplier structures, media or system breaks within processes, the topic also gains relevance. This applies to all sectors in which data is generated. In consideration of the manufacturing industry, the exchange of tool models plays a crucial role. For instance, for the management of server-based catalogues or the virtual commissioning of machines, it is important to transfer the developers' 3D models to the operators. Although many institutions and committees are developing standards and guidelines to ensure an accurate transfer of information, an automated error-free data exchange, necessary for the vision of a smart factory, is still not possible. Investigations show the variety of problems during the data exchange of 3D CAD models via the neutral data format STEP. Detailed analyses of the course of action can be used to identify and classify faults. Based on these findings, it is possible to develop remedies, which are adapted to the problem causes. In case of interface-related errors the manipulation of the transfer files is a useful method to increase compatibility and information content.

Biography

Claudia Kleinschrodt studied Environmental and Bio-engineering (Materials and Process technology) at University of Bayreuth. She completed her Diploma in 2014 and then worked as a Research Assistant at University of Bayreuth. Her research focuses on 3D data exchange of precision tools.

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