Am Dienstag, 24.09.19, 16.15 hst berichtet Sumit Shinde über das Ergebnis seiner Masterarbeit:

„Deep learning (CNN) approach and image feature extraction for automotive exhaust system component's cost estimation“

Abstract:

Cost prediction of the product in every manufacturing industry is very crucial. As every mechanical parts production needs multiple manufacturing processes to undergo with it is always challenging to develop such intelligent systems in order to achieve better assistance of decision making to optimize the tooling techniques selection during the product development. This work focuses on the development of the assisted system for decision making in the tooling and cost estimation of the product. In general, these data-driven methodologies need a huge amount of data which is not easily possible to collect manually. So in order to achieve this, some dedicated software robots have been deployed for the data collection and have achieved better performance. So, this work involves the scope in data analysis with empowering it with the automation. In this work, a data-driven approach has opted for the cost prediction, past data from the manufacturing stations are used and analyzed and some scientific quantitative prediction methods have been implemented. In the process of establishing the prediction model, in order to reduce the errors, the parameter setting has been done accordingly. This work proposes the digital transformation which leads to a paperless approach which is much likely needed in most of the business processes.

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Interessenten sind herzlich eingeladen. Weitere Informationen bei:
Prof. Dr.-Ing. Thomas Brox, Tel: 0761/203-8261
Email: brox@informatik.uni-freiburg.de
http://lmb.informatik.uni-freiburg.de/lectures/oberseminar/