ME Seminar

Artificial Intelligence in Sheet Metal Forming

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ABSTRACT

AI is to solve problems that are hardly or not at all formulated into code but can only be solved intuitively. Now ongoing digitalization in the manufacturing industry, a tremendous amount of data is available along with the knowledge from historical experiences. AI showed so much usefulness in many other industries. The manufacturing industry sees huge potential in data-driven techniques. Presently, most ML and DL models are only applicable to a specific question under a specific environment such that every time a new problem is identified, a new model needs to be constructed, which is a huge waste of computing resources. The best solution to this problem is to generalize the usage of models and neural networks. It is necessary to advance in this direction so that the usage of models can be generalized in a unified form in the future.

ABOUT THE SPEAKER

Dr. Dipak Wagre is currently an assistant professor at VJTI, Mumbai. He got his Ph.D. from the University of Porto, Portugal in 2015, where he worked on the numerical analysis of forming of anisotropic sheet metals. Prior to his Ph.D., Dr. Wagre obtained his Masters in Mechanical Engineering from IIT Delhi and a Bachelor's degree from SGGS Institute of Engineering and Technology, Nanded, India.

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