JIDUO ZHANG MENG.

Education	 Department of Mechanical and Aerospace Engineering, The University ester Manchester, University <i>Ph.D. in Mechanical Engineering</i> Supervisor: Dr. Robert Heinemann and Otto Jan Bakker Research area: Deep learning system for tool condition monitoring in dri aerospace stacks 	ited Kingdom 2021 - 2025	
	School of Mechanical Engineering, Northwestern Polytechnical Univer China	r sity Xi'an,	
	 MEng in Aerospace and Aeronautical Manufacturing Supervisor: Prof. Rong Mo and Huibin Sun Research area: Deep learning system for tool wear monitoring and foreca milling process 	2017 - 2020 asting in	
	Honors College, Northwestern Polytechnical University	Xi'an, China	
	B.S.c in Aircraft Manufacturing	2017 - 2020	
	GPA: 85.Exchange study in RWTH Aachen University from 2016-2017		
Selective Publications	1. Jiduo Zhang, Robert Heinemann, Otto Jan Bakker, Siqi Li, Xiaoyu Xiao, Yixian Ding. Minimum Sufficient Signal Condition of Identifying Process Incidence in Stacked Drilling Through Deep Learning. <i>Mechanical Systems and Signal Processing</i> , 2025. (JCR Q1)		
	2. Jiduo Zhang, Robert Heinemann, Otto Jan Bakker. Process Incidence Monitoring in Material Identification during Drilling Stacked Structures using Support Vector Machine. <i>The International Journal of Advanced Manufacturing Technology</i> , 2025. (JCR Q2)		
	3. Jiduo Zhang, Robert Heinemann, Otto Jan Bakker. Knot-TPP: A Unified Deep Learning Model for Process Incidence and Tool Wear Monitoring in Stacked Drilling <i>Journal of</i> <i>Manufacturing and Materials Processing</i> , 2025 (JCR Q2)		
	4. Jiduo Zhang, Robert Heinemann, Otto Jan Bakker, and Menghui Zhu. In-process tool incidence identification based on temporal pyramid pooling and convolutional neural net-work. <i>Procedia CIRP</i> , 2025		
	5. Sun, Huibin, Jiduo Zhang, Rong Mo, and Xianzhi Zhang. In-process Tool Condition Forecasting based on a Deep Learning Method. <i>Robotics and Computer-Integrated Man-</i> <i>ufacturing</i> , 2020. (JCR Q1)		
	 Sun, Huibing, Junling Pan, Jiduo Zhang, and Rong Mo. "Digital twin model for cutting tools in machining process. <i>Computer Integrated Manufacturing Systems</i>, 2019 		
Publications Under Review	1. Jiduo Zhang, Robert Heinemann, Otto Jan Bakker. EBPC: A cloud computing frame- work for the application of deep learning in immediate online process incidence moni- toring during drilling of CFRP/Al stacks. <i>Journal of Intelligent Manufacturing</i> , (Revision updated 07 May, 2025)		
Joined Projects	Wear degradation modelling and residual life prediction of milling cutters base tic processes (51875475)	ed on stochas-	
	National Natural Science Foundation of China (NSFC) 2017.	.09 - 2020.04	
Internships	RWTH Aachen University Aachen, Germany 2016.	.10 - 2017.04	

• Bachelor Dissertation: Finite Element based numerical analysis of friction and pretension effect on composite protruded bolted joints

Awards and Honors	 Academic Scholarship, Northwestern Polytechnical University 2015, 2017 - 2020 Academic Scholarship, Honors College, Northwestern Polytechnical University 2014-2016 International Exchange Programme for Outstanding Undergraduate Students, China Scholarship Council, 2016 	
Skills	Languages: Chinese, English. Skills: Deep Learning, Machine Learning, Data Analysis, Finite Element Analysis Computer-Aided Design, Web and App Development	
	Frameworks: Pytorch/Keras, C/C++ Dev, Web, Android/iOS, An- sys/ABAQUS, ROS.	
Academic Services	Reviewers for : Journal of Manufacturing System, Journal of Intelligent Manufacturing,	