Tengfei Xu

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Education	
Dalian University of Technology BACHELOR OF ENGINEERING IN ENGINEERING MECHANICS (QIAN LINGXI EXCELLENCE IN EDUCATION PROGRAM) • GPA: 3.78	Dalian 2018 - 2022
 Dalian University of Technology MASTER OF ENGINEERING IN COMPUTATIONAL MECHANICS Work at State Key Laboratory of Structural Analysis, Optimization and CAE Software for Industrial Equipment 	Dalian 2022 - Current ent
Publications	
Liu, D., Hao, P., Xu, T. , et al. 2023. Intelligent optimization of stiffener unit cell via variational autoenco extraction. Structural and Multidisciplinary Optimization, 66(1), 8.	der-based feature
 In this work, I propose to use a VAE-GAN model as the deep learning module to extract feature and expace, rather than a naive VAE. I write the relevant code, and help to write and edit the paper. 	stablish the latent
Xu, T., Liu, D., Hao, P., et al. 2023. Variational operator learning: A unified paradigm marrying training net solving partial differential equations. arXiv preprint, arXiv:2304.04234.	ıral operators and
 In this work, I propose Variational Operator Learning (VOL), a novel weak-form embedding and label-free PDEs' modeling. I'm the first inventor of the related patent (Publication number: CN 116468104 A) 	e paradigm in the
Awards, Fellowships, & Grants	
2019 Qian Lingxi Mechanics Scholarship, Dalian university of technology education development foundation 2022 Chiang Chen Scholarship (The First-Class Scholarship), Chiang Chen Industrial Charity Foundation The First-Class Graduate Scholarship, Dalian university of technology education development foundation	
Research Experience	
 Dalian University of Technology - Dept of Engineering Mechanics Advisor: Dr. Dixiong Yang Projects: "Application of novel neural networks in structural optimization" 	Dalian 2019-2021
 Dalian University of Technology - Dept of Engineering Mechanics Advisor: Dr. Peng Hao Projects: "Intelligent design optimization of variable stiffness structures" 	Dalian 2021-2022
Dalian University of Technology - Dept of Engineering Mechanics Advisors: Dr. Peng Hao Thesis: "A domain knowledge embedding framework of operator learning and brain-inspired computing"	Dalian 2022-2025