**Mini-symposium Title**

Applications of AI/ML in Computational Mechanics and Engineering

**Description**

This mini-symposium focuses on the applications of Artificial Intelligence (AI) and Machine Learning (ML) in the field of computational mechanics, bringing together experts and scholars from academia, industry, and research institutions to explore how AI technologies are revolutionizing and advancing the development of computational mechanics. Key topics include, but are not limited to: applications of AI/ML in structural mechanics, structural optimization, and damage/model identification and inference; data-driven modeling in computational mechanics such as constitutive modeling and material property analysis; AI/ML-assisted and AI/ML-coupled traditional numerical methods; as well as interdisciplinary applications and challenges in biomechanics, mechanical engineering, civil engineering, aerospace, and beyond. The forum also addresses practical implementation challenges and potential solutions. Through this event, participants will gain in-depth insights into the latest AI/ML applications and development trends in computational mechanics, fostering collaboration and knowledge exchange across different domains to collectively advance the field.

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