

**The 12th International Conference on Computational Methods**  
**July 4th – 8th, 2021, at the Cloud**  
**(ICCM2021)**

**Plenary Lecture (PL)**

PL-1: On Higher-Order Shell Finite Elements and a Computational Approach for Fracture  
*J.N. Reddy, Texas A&M University, United States*

PL-2: Integrated Computational Materials Engineering (ICME) for designing resilient buildings and infrastructure against extreme loads  
*Tuan Ngo, The University of Melbourne, Australia*

**Semi Plenary Lecture (SPL) (ordered by last name)**

SPL-1: Large deformation modelling of coupled flow-deformation problems in unsaturated porous media using SPH method  
*Bui Ha Hong, Monash University, Australia*

SPL-2: Model-constrained deep learning approaches for inference, control, and uncertainty quantification  
*Tan Bui-Thanh, University of Texas at Austin, United States*

SPL-3: Hierarchical cellular structures for impact applications  
*Ramaiah Pattabhi Budarapu, Indian Institute of Technology, Bhubaneswar, India*

SPL-4: Isogeometric Methods in Structural Analysis  
*Josef Kiendl, Bundeswehr University Munich, Germany*

SPL-5: Efficient data-collection strategy and hyperparameter tuning for machine learning using Bayesian optimization  
*Jaehong Lee, Sejong University, South Korea*

SPL-6: Some recent advances in Isogeometric Analysis with a special focus on structural and coupled simulations  
*Alessandro Reali, University of Pavia, Italy*

SPL-7: CT image-based damage and fracture modelling and validation of Concrete and FRC  
*Zhenjun Yang, Wuhan University, China*

SPL-8: Selective laser sintering of polymer composites: modelling, design, and applications  
*Kun Zhou, Nanyang Technological University, Singapore*