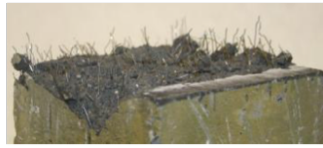




Escuela Internacional
de Doctorado



Mini-symposium

Numerical Models for Civil Engineering Materials

Salón de Grados — Escuela Técnica Superior de Ingeniería de Caminos, Canales y Puertos — UCLM
Avenida Camilo José Cela — 13071 Ciudad Real
September-October, 2025

Monday, September 8, 2025

- 10:25-10:30 Opening
Rena C. Yu
- 10:30 - 11:15 Fiber beam model using finite particle method for dynamic fracture simulation of concrete structures

Ying Yu, Shantou University, China
- 11:15 - 12:00 Multi-scale fracture simulations of concrete-like materials driven by Micro-CT imaging

Yujie Huang, North University of China
- 12:00 - 12:45 Cross-scale insights into interfaces and fibre orientations of 3D-printed UHPC

Hui Zhang, North University of China

Tuesday, October 7, 2025

- 11:30-12:30 Multi-physics and multi-scale modelling of materials under extreme conditions
Bo Li, Peking University, China

Thursday, October 16, 2025

- 12:00-13:00 Probabilistic combination of loads in topology optimization designs via cumulative damage criteria

Luis Saucedo-Mora, Technical University of Madrid, Spain

Thursday, October 23, 2025 (online)

- 12:00-13:00 A robust learned feature-based visual odometer system for UAV pose estimation in challenging indoor environments

Efu Yang, University of Strathclyde, UK