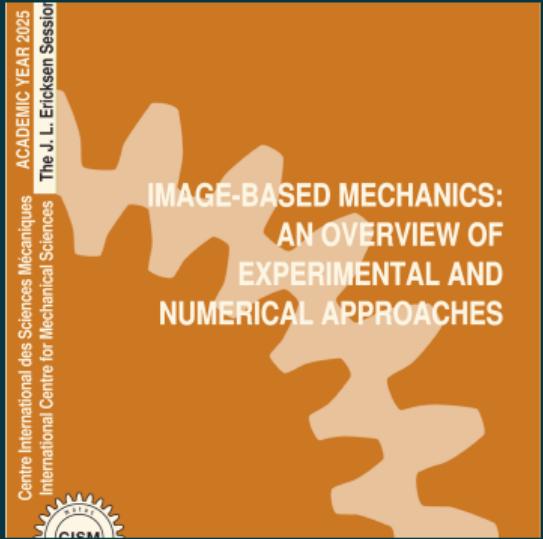


My Lecture Series

José Xavier

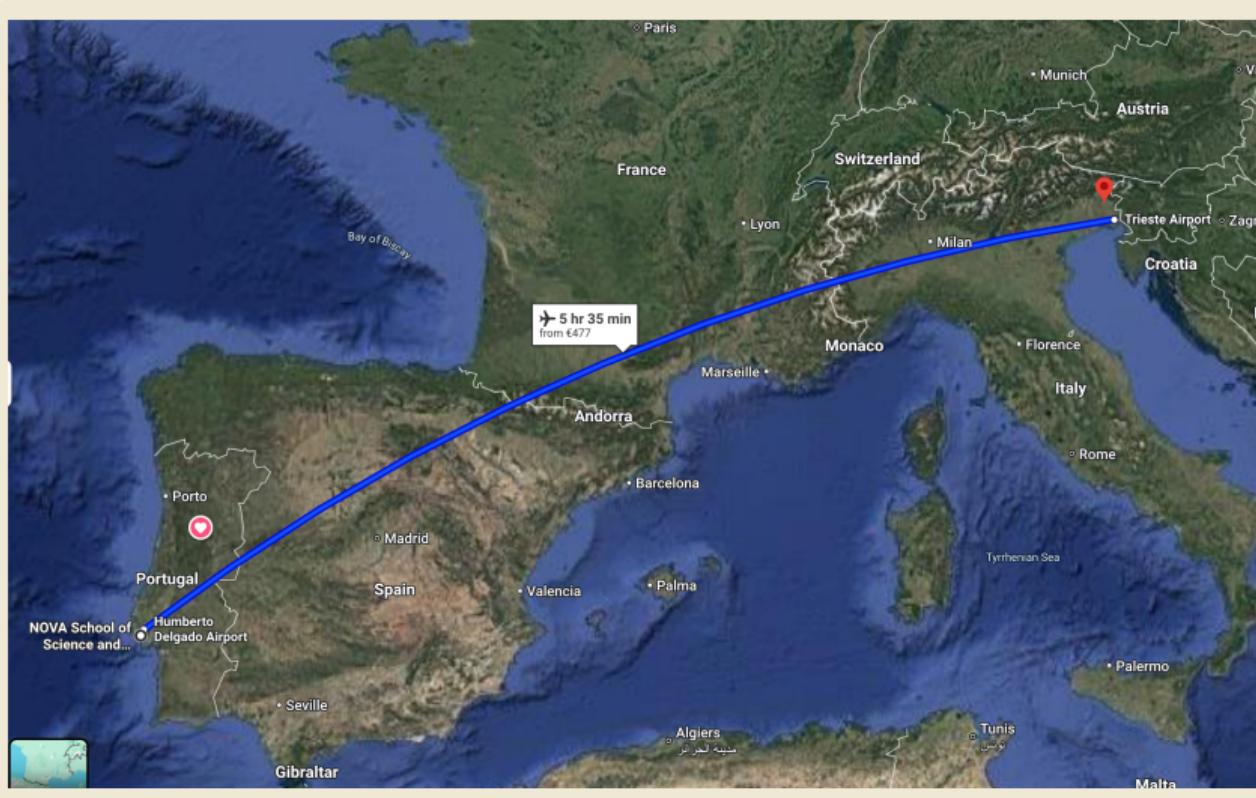
*UNIDEMI, NOVA School of Science and Technology,
Universidade NOVA de Lisboa, Caparica, Portugal*



CISM Advanced School (C2516)
Udine, Italy ▪ 6–10 October 2025

From NOVA FCT to CISM/Udine

Overview



Lecture Series Overview

Overview

01 **2D & Stereo Digital Image Correlation (5/10 @ 11:45-12:30)**

Guidance and Practical Concepts

02 **The Virtual Fields Method (5/10 @ 14:00-14:45)**

Extracting Material Parameters from Heterogeneous Fields

03 **Image-Based Approaches in Fracture Mechanics (5/10 @ 16:00-16:45)**

Case Studies: Composites, Wood and Bone

04 **High-Strain Rate Testing Analysis (6/10 @ 9:00-9:45)**

Composites and Wood Materials

05 **Image-Based Material Testing (6/10 @ 14:00-14:45)**

Design and Implementation

06 **Hands-On with Jupyter Notebooks (6/10 @ 14:45-15:30)**

Virtual Fields Method for Material Identification



Get in Touch

Overview



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Feel free to reach out for collaboration or questions about image-based mechanics