



François HILD

📍 ENS Paris-Saclay – Bâtiment Nord –
MV29

EQUIPE COMMET

François HILD

RESEARCH PROFESSOR (CNRS)

Statut : Chercheur·se

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Research Activities

- › Probabilistic analyses of the behavior of heterogeneous materials
- › Damage and failure under monotonic, cyclic or dynamic loadings
- › Multiscale techniques for measuring, identifying and validating constitutive models

Teaching Activities

- › Research projects (M1 students)

MAterials and EnGineering Sciences in ParIS -- MAGIS (M2 students):

- › Damage of brittle materials
- › Introduction to Digital Image Correlation

CINEMA doctoral course (PhD students):

- › Digital Image Correlation in Applied Mechanics

Editorial Activities

- › Deputy editor of Journal of Strain Analysis for Engineering Design
- › Board member of Optics and Lasers in Engineering

Publications

Journal articles

[Parameter identification of a phase-field fracture model using integrated digital image correlation](#)

Viktor Kosin, Amélie Fau, Clément Jailin, François Hild, Thomas Wick

Computer Methods in Applied Mechanics and Engineering, 2024, 420, pp.116689. ([10.1016/j.cma.2023.116689](#))



[Damage detection and quantification via multiview DIC at varying scales](#)

Israe Hamadouche, Darius Seyedi, François Hild

Experimental Mechanics, 2024, 64, pp.675-689. ([10.1007/s11340-024-01038-0](#))



[Quantifying 3D Crack Propagation in Nodular Graphite Cast Iron Using Advanced Digital Volume Correlation and X-ray Computed Tomography](#)

Haizhou Liu, François Hild

Engineering Fracture Mechanics, 2024, pp.109824. ([10.1016/j.engfracmech.2023.109824](#))



[A 3D pantographic metamaterial behaving as a mechanical shield: Experimental and numerical evidence](#)

Alessandro Ciallella, Ivan Giorgio, Emilio Barchiesi, Gianluca Alaimo, Alberto Cattenone, Benjamin Smaniotto, Antoine Vintache, Francesco d'Annibale, Francesco Dell'Isola, François Hild, Ferdinando Auricchio

Materials & Design, 2024, 237, pp.112554. ([10.1016/j.matdes.2023.112554](#))

