

SEMINAR CS4

Complex Materials for Civil and Environmental Engineering

24 November 2025

14.00 - 17.00 CET

Grandori Room – bld. 4

POLITECNICO DI MILANO

Piazza Leonardo da Vinci, 32

Milano

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GUEST SPEAKER:

Diego Misseroni

Professor of Aerospace Structures

Università degli Studi di Trento

MODERATED BY :

Massimiliano Cremonesi

Chiara Corbari

Paola Gattinoni

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SEMINAR CS4

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|----------------------|---|
| 14.00 - 14.10 | Introduction from Attilio Frangi
Director, Department of Civil and Environmental Engineering, Politecnico di Milano |
| 14.10 - 15.00 | Diego Misseroni
Professor of Aerospace Structures - Università degli Studi di Trento
“Programming shape, stability, and function in origami metamaterials” |
| 15.00 - 15.15 | Jacopo De Ponti
“When waves get trapped: how complex topological materials can advance microscale sensing” |
| 15.15 - 15.30 | Michele Rosso
“Harnessing piezoelectric and magnetic materials for vibration energy harvesting in smart structures” |
| 15.30 - 15.45 | Giacomo Rizzieri
“From fluid to solid: numerical modelling of elasto-viscoplastic flows in advanced engineering applications” |
| 15.45 - 16.00 | Niki Trochoutsou
“Multi-functional composite materials for pro-active retrofitting of heritage structures” |
| 16.00 - 16.15 | David Faraci
“Auxetic and negative thermal expansion metamaterials: applications, design and modelling” |
| 16.15 - 16.45 | Coffee & Discussion |

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<https://politecnicomilano.webex.com/meet/paola.gattinoni>

