

Open Courses • Lisboa

STRUCTURAL HEALTH MONITORING – FRANCE



Direction

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Secretariat

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Duration

12h

Credits

2 ects

Presentation

A 12-hour blended short course designed to pose the structural health monitoring (SHM) in the context of a statistical pattern recognition paradigm to support the damage identification process and risk-informed integrity management. The remote part introduces the concept of SHM and accelerates the learning process, while the in-person part focuses on bridging the gap between research and practical application. The techniques are shown with hands-on experiences applied to bridges. Unsupervised learning techniques as Gaussian mixture Models; supervised learning algorithms like artificial neural networks or support vector machines; and transfer learning methods as the transfer component analysis are all covered. The role of SHM to support the climate change adaptation of bridges is also discussed.

STUDY PLAN

1st Year / No Branch Name

Anual	ects
Short Course on Structural Health Monitoring - France	2

Linha direta
para o teu futuro

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