



AI for Structural Health Monitoring

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Research team and collaborators



Al synergy



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Structural Health Monitoring





• Bridges in Romania

- More than 80% of Romanian bridges should be rehabilitated and/or monitored
- High risk of collapse and human casualties
- Great investments in infrastructure (PNRR)
- \circ $\,$ SHM market expected to expand in the near future



Luțca, Neamț, 2022





Hybrid techniques for training MLAs

- Using only the monitoring data: Unsupervised Learning
- Numerical simulations under extreme environmental conditions and multiple damage scenarios provide the training labels
- Monitoring data + numerical data: Supervised Learning







crack





Open for **research collaborations** and **joint research proposals** on

Structural Health Monitoring



