



TITLE: Development of a new method for damage detection based on vision-based measurements

RESEARCH ACTIVITIES:

1. Bibliographic research on dynamic vision-based measurements and their use for damage detection
2. Matlab code development for image processing in order to obtain displacement measurements
3. Matlab code development for damage detection
4. Simulations of dynamic mechanical systems in damaged scenarios
5. Performance evaluation in terms of uncertainty and sensitivity to damage
6. Experiments on a testing workbench

DURATION: 10-13 months

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