

Using AQUADA-GO web API

1 Login

The screenshot shows the AQUADA-GO website with a navigation bar containing links for HOME, USING AQUADA-GO, OPEN DATA, PUBLICATIONS, and CONTACT. A 'Login' button is located in the top right corner. The main content area features the AQUADA-GO logo and a description: 'Automated blade damage detection and near real-time evaluation for operational offshore wind turbines'. Below this is a 'LEARN MORE' button. Further down, there are two columns: 'OPEN DATA' with a description of freely available drone-based optical and thermal videos, and 'PUBLICATIONS' with a link to read publications. A 'CONTACT US' link is also present. The footer includes the DTU Wind Energy logo and address: DTU RISO CAMPUS, Frederiksborgvej 399, 4000 Roskilde, CVR: DK5590946.

2 Click "Simulations"

This screenshot is identical to the one above, showing the AQUADA-GO website. However, the navigation bar now includes additional links for 'Simulations', 'Access endpoints', and 'Release Notes' on the right side. The rest of the page content, including the main description, 'LEARN MORE' button, 'OPEN DATA' and 'PUBLICATIONS' sections, and the footer, remains the same.

3 Selects File and click "upload"

AQUADA-GO Account Logout

HOME USING AQUADA-GO OPEN DATA PUBLICATIONS CONTACT

Simulations Access endpoints Release Notes

AQUADA-GO Preprocessing

Upload a Video
Please upload a valid video file (mp4). To test the functions, please click the **Use Example Video** button.

Choose File No file chosen

Upload

Use Example Video



AI & Computer Vision based damage inspection

Non-destructive testing (NDT)

Smart Structural Health Monitoring (S-SHM)

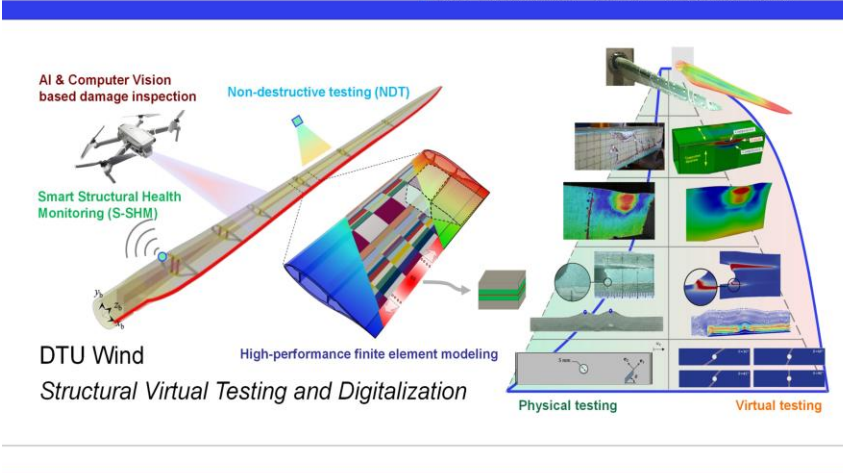
DTU Wind

High-performance finite element modeling

Structural Virtual Testing and Digitalization

Physical testing

Virtual testing



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AQUADA-GO DTU Wind Energy

4 Click on the Blade

AQUADA-GO Account Logout

HOME USING AQUADA-GO OPEN DATA PUBLICATIONS CONTACT

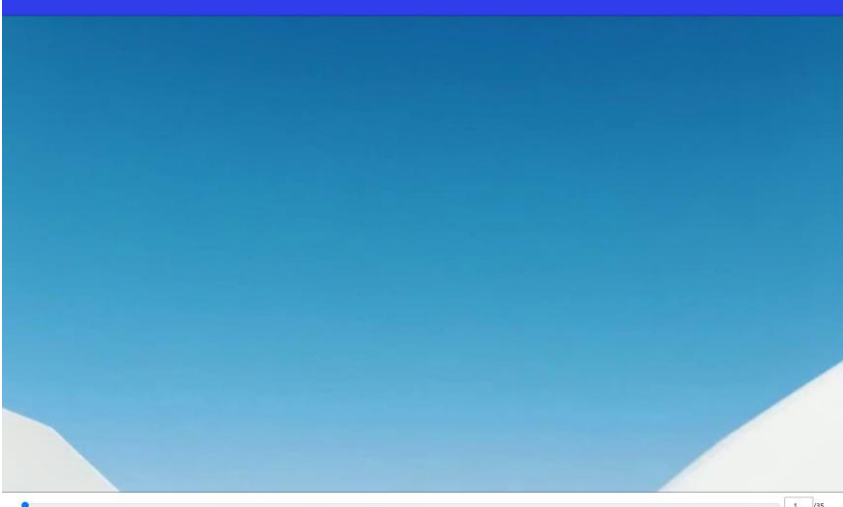
Simulations Access endpoints Release Notes

Segmentation

Method
Click

Options
Masks

Restart



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5 Click "Update mask"

The screenshot shows the AQUADA-GO web interface. At the top, there is a navigation bar with links for HOME, USING AQUADA-GO, OPEN DATA, PUBLICATIONS, and CONTACT. On the right side of the navigation bar, there are buttons for Account and Logout. Below the navigation bar, there are three tabs: Simulations, Access endpoints, and Release Notes. The main content area is divided into two parts: a large visualization area on the left and a control panel on the right. The visualization area shows a blue sky and a white ground surface. The control panel is titled 'Segmentation' and contains the following elements: a 'Method' dropdown menu set to 'Click', a 'Options' section with a checked 'Masks' checkbox, and two buttons: 'Update mask' (highlighted with a red box) and 'Restart'. At the bottom of the page, there is a footer with the DTU WIND ENERGY logo and text, and an address: DTU RISO CAMPUS, Frederiksborgvej 599, 4000 Roskilde, CVR: 28300046.

6 Click "forward propagation"

The screenshot shows the AQUADA-GO web interface, similar to the previous one. The navigation bar and tabs are the same. The main content area is divided into two parts: a large visualization area on the left and a control panel on the right. The visualization area shows a blue sky and a white ground surface, with a red area appearing on the right side of the ground surface. The control panel is titled 'Segmentation' and contains the following elements: a 'Method' dropdown menu set to 'Click', a 'Options' section with a checked 'Masks' checkbox, and several buttons: 'Update mask', 'Reset mask', 'Forward propagation' (highlighted with a red box), 'Backward propagation', 'Pause propagation', 'Download', 'Damage detection mode', and 'Restart'. At the bottom of the page, there is a footer with the DTU WIND ENERGY logo and text, and an address: DTU RISO CAMPUS, Frederiksborgvej 599, 4000 Roskilde, CVR: 28300046.

7 Press "Damage detection Mode"

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8 Click "Propagate Damage Detection"

The screenshot shows the AQUADA-GO web interface. At the top, there is a navigation bar with links for HOME, USING AQUADA-GO, OPEN DATA, PUBLICATIONS, and CONTACT. On the right side of the navigation bar, there are buttons for Account and Logout. Below the navigation bar, there are three tabs: Simulations, Access endpoints, and Release Notes. The main content area is split into two parts. On the left, there is a large visualization area showing a dark blue sky and a dark blue ground surface. On the right, there is a panel titled "Damage Detection". This panel contains a "Slider for threshold:" with a slider set to 0% and a 100% mark, a "Masks" section with a checked "Masks" checkbox, and several buttons: "Propagate damage detection", "Pause propagation", "Download", "Go back to segmentation", and "Restart". At the bottom of the visualization area, there is a progress bar showing 1 / 35. The footer of the page contains the DTU logo and text: "DTU WIND ENERGY is a globally leading centre for wind energy with technical, scientific competence in the international field, and with a unique integration of research." On the right side of the footer, there is an address: "ADDRESS: DTU 8050 CAMPUS / Frederiksborgvej 299 / 4000 Roskilde / CVR: DK3056946".

8 Download the results

AQUADA-GO HOME USING AQUADA-GO OPEN DATA PUBLICATIONS CONTACT Account Logout

Simulations Access endpoints Release Notes

Damage Detection
Slider for threshold: 0% 100%

Masks

[Propagate damage detection](#)

[Pause propagation](#)

[Download](#)

[Go back to segmentation](#)

[Restart](#)

35 / 35

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