

## **Morphing for Aerospace and Wind Turbine Applications**

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### **ABSTRACT**

Morphing has been a topic especially for aeronautical applications over the years. Basically starting with the wright brothers using morphing for flight control.

In this talk the state of the art research in morphing for passenger aircraft will be presented, as it is being carried out at the German Aerospace Center. A special focus will be put on the latest development of smart droop noses. In the second part of this presentation an overview of possible applications for wind turbines will be given as well. The increasing rotor diameters demand for load reduction in the blade root, which could be achieved by morphing. The question is today, what technologies can serve these tasks. A series of development and testing of different devices in wind tunnels as well as in field tests will be presented.