

Control of segmented ultralight morphing rotors on wind turbines

Kathryn Johnson, Colorado School of Mines and NREL

In this talk, Dr. Johnson will describe recent trends in wind energy systems, explain the basic configurations and elements of wind turbine controller, give a virtual “tour” of NREL’s 3-bladed Controls Advanced Research Turbine, and finally describe a multi-institutional ARPA-E project called the “50 MW Segmented Ultralight Morphing Rotor.”