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### Expertise areas:

- Wind Turbine Aerodynamics, Dynamic Modeling and Control
- Wind Turbine Load Alleviation/Protection Systems
- Electrical Machines and Drives
- Wind Turbine Electricity Generation and Grid Connection

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## **PhD Thesis:**

Dynamic Modeling, Control and Adaptive Envelope Protection Systems for Horizontal Axis Wind Turbines, METU Aerospace Engineering, Ankara, 2018.

## **Recent Publications**

ŞAHİN, M., YAVRUCUK, İ., Dynamical Modelling of a Wind Turbine System with Precone and Tilt Angles, AIAC 2017, Ankara, Turkey.

ŞAHİN, M., YAVRUCUK, İ., Examination of Certain Parameter Effects on the Power Prediction in Dynamical Modeling of Wind Turbines, YEKSEM 2017, Antalya, Turkey.

ŞAHİN, M., YAVRUCUK, İ., Controller Designs for the Partial and Full Load Regions of Variable Speed Wind Turbines, YEKSEM 2017, Antalya, Turkey.