

## Expertise areas:



**Prof. Dr. H. Bülent Ertan**  
Dept. of Electrical and  
Electronics Engineering

- Generator Design for wind energy conversion
- Simulation and testing of wind-electric energy conversion systems
- Electronic hardware and software for wind energy conversion systems

## Contact:

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# Recent Projects:

Altinel enerji :2015-16-57-3-00-03

"Rüzgar türbini güç eğrisi elde etme testi" 2015

# Thesis:

Gökmen Cengiz Development of a hardware in the loop wind energy conversion system emulator, February 2015, METU Ankara

## In progress

Design of a 50 kVA Magnetically geared permanent magnet generator

Reza Zeinali

Investigation of islanding mode of operation of wind turbines

Siamak Pourkeivannour

# Publications:

H. Bülent Ertan, Gökmen Cengiz, Problems encountered during transition to stand alone operation of grid connected wind turbines, İstanbul Gelişim Üniversitesi, 22-23 Ocak 2015 İstanbul. (davetli konuşma)

Ermiş, M., Ertan, H. B., " *Various Induction Generator Schemes for Wind-Electricity Generation*", Electric Power systems Research, 23 July 1992, pp.71-83.

Ermiş, M., Ertan, H.B., Akpınar, E., Ülgüt, F., "*Autonomous Wind Energy Conversion System With a Simple Controller For Maximum Power Transfer*", IEE overseas premium award. IEE Proc., Part B, Vol 139, No 5 Sep.1992, pp. 421-428.

H. Bülent Ertan, Muammer Ermiş, Sadeddin Alshelleh, "*Optimum Induction Generator Characteristics and Size for Grid Connected Weecs*", European Wind Energy Conference, Amsterdam, Ekim 1991, pp. 613- 617

Ermiş, M., Ertan H.B., Akpınar, E., Ülgüt, F., "Design and Implementation of a Small Autonomous Wind Energy Conversion System", Proc. Fifth International Conference on Energy Options, Reading U.K. 7-9 April 1987, pp.111-114.

Ermiş, M., Ertan H.B. , Demirekler, M. , Sarıbatur, B. , Üçtuğ, Y. , Sezer, E. , "The Use of Induction Generators in Wind Energy Conversion Systems", Proc. 13th World Energy Conference, Cannes, France, 1-22, October 1986, pp.1- 23,