

## ÖZGEÇMİŞ

### Kişisel Bilgiler

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### Eğitim

Derece	Eğitim Birimi	Mezuniyet Tarihi
Doktora	Gazi Üniversitesi / Elektrik Elektronik Müh.	2023
Yüksek lisans	Gazi Üniversitesi / Elektrik Eğitimi	2014
Lisans	Gazi Üniversitesi / Elektrik Öğretmenliği	2009
Lise	Balgat Anadolu Meslek Lisesi	2005

### İş Deneyimi

Yıl	Yer	Görev
2012-Halen	Gazi Üniversitesi	Öğretim Görevlisi

### Yabancı Dil

İngilizce

### Yayımlar

- Vadi, S., Bayindir, R., Toplar, Y. and Colak, I. (2022). Induction motor control system with a programmable logic controller (plc) and profibus communication for industrial plants-an experimental setup. *ISA Transactions*, 122, 459-471.
- Vadi, S. and Bayindir, R. (2022). Modeling, analysis and proportional resonant and proportional integral based control strategy for single phase quasi-z source inverters. *IEEE Access*, 10, 87217-87226.
- Vadi, S. and Bayindir, R. (2022). Performance enhancement of smc based buck converter under variable conditions by particle swarm optimization algorithm. *3rd International Conference on Smart Grid and Renewable Energy (SGRE)*, Doha, 1-8.
- Vadi, S., Gurbuz, F. B., Sagioglu S., and Bayindir, R. (2021). Optimization of pi based buck-boost converter by particle swarm optimization algorithm. *9th International*

*Conference on Smart Grid (icSmartGrid)*, Setubal, 295-301.

5. Gurbuz, F. B., Bayindir R., and Vadi, S. (2021). Comprehensive non-intrusive load monitoring process: device event detection, device feature extraction and device identification using knn, random forest and decision tree. *10th International Conference on Renewable Energy Research and Application (ICRERA)*, Istanbul, 447-452.
6. Vadi, S., Gürbüz, F. B., Bayindir, R., and Hossain, E. (2020). Design and simulation of a grid connected wind turbine with permanent magnet synchronous generator. *8th International Conference on Smart Grid (icSmartGrid)*, Paris, 169-175.
7. Vadi, S., Bayindir, R., and Hossain, E. (2020). A review of control methods on suppression of  $2\omega$  ripple for single-phase quasi-z-source inverter. *IEEE Access*, 8, 42055-42070.
8. Vadi, S.; Bayindir, R.; Colak, A.M.; Hossain, E. (2019). A review on communication standards and charging topologies of V2G and V2H operation strategies. *Energies*, 12(19), 3748-3775.
9. Vadi, S., Padmanaban, S., Bayindir, R., Blaabjerg, F. and Mihet-Popa, L. (2019). A review on optimization and control methods used to provide transient stability in microgrids. *Energies*, 12(18), 3582-3602.
10. Bayindir, R., and Vadi, S. (2017). A web-based educational tool for simulation of reactive power compensation with synchronous motor. *Politeknik Dergisi*, 20(1), 61-69.
11. Bayindir, R., Hossain, E., and Vadi, S. (2016). The path of the smart grid-the new and improved power grid. *International Smart Grid Workshop and Certificate Program (ISGWCP)*, Istanbul, 1-8.
12. Vadi, S. and Bayindir, R. (2015). Development of an opc and plc based remote-access laboratory: a synchronous motor control experiment, *International Journal of Applied Mathematics Electronics and Computers*, 3(3) 172-177.
13. Bayindir, R., Vadi S., and Goksucukur, F. (2013). Implementation of a plc and opc-based dc motor control laboratory. *4th International Conference on Power Engineering, Energy and Electrical Drives*, Istanbul, 1151-1155.
14. Bayindir, R., and Vadi, S. (2012). Monitoring parameters of synchronous motor via internet. *International Conference on Renewable Energy Research and Applications (ICRERA)*, Nagasaki, 1-4.
15. Irmak E. and Vadi, S. (2011). Computer based implementation of speed control experiment depending on frequency variation for induction motors. *Journal of the Faculty of Engineering and Architecture of Gazi University*, 26(1), 57-62.

## **Hobiler**

Otomasyon Sistemleri ve Programlama.

