

## Öğr. Gör. Dr. ALPER SAVAŞCI

### Kişisel Bilgiler

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### Uluslararası Araştırmacı ID'leri

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Publons / Web Of Science ResearcherID: ADR-3958-2022

ScopusID: 57214754719

### Eğitim Bilgileri

Doktora, Florida International University, College of Engineering & Computing, Electrical and Computer Engineering, Amerika Birleşik Devletleri 2018 - 2023

Yüksek Lisans, Michigan Technological University, College of Engineering, Electrical and Computer Engineering, Amerika Birleşik Devletleri 2016 - 2018

Lisans, Erciyes Üniversitesi, Mühendislik Fakültesi, Elektrik- Elektronik Mühendisliği, Türkiye 2007 - 2012

### Yabancı Diller

İngilizce, C1 İleri

### Yaptığı Tezler

Bütünleşik Doktora, Distribution Grid Optimal Power Flow Incorporating Smart Distribution Grid Optimal Power Flow Incorporating Smart Inverters and Legacy Control Devices, Florida International University, Faculty of Engineering, Electrical and Computer Engineering, 2023

Yüksek Lisans, Grid-aware optimal demand response management of smart homes, Michigan Technological University, College of Engineering, Electrical and Computer Engineering, 2018

### Araştırma Alanları

Doğrudan Enerji Dönüşümü ve Enerji Depolaması, Güç Sistemlerinin Analizi, Enerji Üretim İstasyonları ve Tesisleri, Enerji İletimi ve Dağıtım, Yenilenebilir Enerji

### Akademik Unvanlar / Görevler

Öğretim Görevlisi Dr., Abdullah Gül Üniversitesi, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği, 2023 - Devam Ediyor

Araştırma Görevlisi, Florida International University, College of Engineering, Electrical and Computer Engineering, 2019 - 2022

## SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **Optimal Tuning of Local Voltage Control Rule of Load Tap Changers for Dynamic Operation of Unbalanced Distribution Networks**  
Savasci A., Inaolaji A., Paudyal S.  
IEEE Transactions on Industry Applications, cilt.60, sa.1, ss.1322-1331, 2024 (SCI-Expanded)
- II. **Distributed Optimal Power Flow in Unbalanced Distribution Grids With Non-Ideal Communication**  
Inaolaji A., Savasci A., Paudyal S., Kamalasadana S.  
IEEE Transactions on Industry Applications, cilt.59, sa.5, ss.5385-5397, 2023 (SCI-Expanded)
- III. **Two-Stage Volt-VAR Optimization of Distribution Grids With Smart Inverters and Legacy Devices**  
Savasci A., Inaolaji A., Paudyal S.  
IEEE Transactions on Industry Applications, cilt.58, sa.5, ss.5711-5723, 2022 (SCI-Expanded)
- IV. **Distribution Grid Optimal Power Flow in Unbalanced Multiphase Networks With Volt-VAR and Volt-Watt Droop Settings of Smart Inverters**  
Inaolaji A., Savasci A., Paudyal S.  
IEEE Transactions on Industry Applications, cilt.58, sa.5, ss.5832-5843, 2022 (SCI-Expanded)

## Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

- I. **Optimal Dead Band Control of Occupant Thermostats for Grid-Interactive Homes**  
Savasci A., Ceylan O., Paudyal S.  
2024 International Conference on Smart Energy Systems and Technologies, SEST 2024, Torino, İtalya, 10 - 12 Eylül 2024
- II. **Optimal Droop Scheduling of Smart Inverters in Unbalanced Distribution Feeders**  
Savasci A., Inaolaji A., Paudyal S.  
2023 IEEE Power & Energy Society General Meeting (PESGM), Florida, Amerika Birleşik Devletleri, 16 - 20 Temmuz 2023, ss.1-5
- III. **An Efficient Method for Dynamic Hosting Capacity of Distribution Grids**  
Khan M. A. I., Savasci A., Paudyal S.  
4th Annual IEEE Kansas Power and Energy Conference, KPEC 2023, Kansas, Amerika Birleşik Devletleri, 27 - 28 Nisan 2023
- IV. **Optimal Dead Band Control of Load Tap Changers in Distribution Networks**  
SAVAŞCI A., Inaolaji A., Paudyal S.  
2023 IEEE PES Generation, Transmission and Distribution International Conference and Exposition, GTD 2023, İstanbul, Türkiye, 22 - 25 Mayıs 2023, ss.171-175
- V. **A Consensus ADMM-Based Distributed Volt-VAR Optimization for Unbalanced Distribution Networks**  
Inaolaji A., Savasci A., Paudyal S., Kamalasadana S.  
2022 IEEE Industry Applications Society Annual Meeting, IAS 2022, Michigan, Amerika Birleşik Devletleri, 9 - 14 Ekim 2022, cilt.2022-October
- VI. **Optimal Coordination of On-Load Tap Changers with Local Control Rules**  
Savasci A., Inaolaji A., Paudyal S.  
2022 IEEE Industry Applications Society Annual Meeting, IAS 2022, Michigan, Amerika Birleşik Devletleri, 9 - 14 Ekim 2022, cilt.2022-October
- VII. **Optimal Droop Settings of Smart Inverters**  
Inaolaji A., Savasci A., Paudyal S.  
48th IEEE Photovoltaic Specialists Conference, PVSC 2021, Florida, Amerika Birleşik Devletleri, 20 - 25 Haziran 2021, ss.2584-2589

- VIII. **Distribution grid optimal power flow integrating volt-var droop of smart inverters**  
Savasci A., Inaolaji A., Paudyal S.  
13th Annual IEEE Green Technologies Conference, GREENTECH 2021, Colorado, Amerika Birleşik Devletleri, 7 - 09 Nisan 2021, cilt.2021-April, ss.54-61
- IX. **Accuracy of phase-decoupled and phase-coupled distribution grid power flow models**  
Inaolaji A., Savasci A., Paudyal S., Kamalasadana S.  
2021 IEEE Power and Energy Society Innovative Smart Grid Technologies Conference, ISGT 2021, Washington, Amerika Birleşik Devletleri, 16 - 18 Şubat 2021
- X. **Distribution Grid Optimal Power Flow with Volt-VAR and Volt-Watt Settings of Smart Inverters**  
Inaolaji A., Savasci A., Paudyal S.  
2021 IEEE Industry Applications Society Annual Meeting, IAS 2021, Vancouver, Kanada, 10 - 14 Ekim 2021, cilt.2021-January
- XI. **Efficient Distribution Grid Optimal Power Flow with Discrete Control of Legacy Grid Devices**  
Savasci A., Inaolaji A., Paudyal S., Kamalasadana S.  
2021 IEEE Power and Energy Society General Meeting, PESGM 2021, Washington, Amerika Birleşik Devletleri, 26 - 29 Temmuz 2021, cilt.2021-July
- XII. **Distribution Grid Optimal Power Flow with Adaptive Volt-VAR Droop of Smart Inverters**  
Savasci A., Inaolaji A., Paudyal S.  
2021 IEEE Industry Applications Society Annual Meeting, IAS 2021, Vancouver, Kanada, 10 - 14 Ekim 2021, cilt.2021-October
- XIII. **Performance analysis of mixed-integer conic and mixed-integer linear unit commitment models**  
Savasci A., Inaolaji A., Paudyal S.  
2020 IEEE Power and Energy Society General Meeting, PESGM 2020, Montreal, Kanada, 2 - 06 Ağustos 2020, cilt.2020-August
- XIV. **Design of A Simplified Hierarchical Bayesian Network for Residential Energy Storage Degradation**  
Khan K., Hossen T., Savasci A., Gauchia L., Paudyal S.  
2019 IEEE Power and Energy Society General Meeting, PESGM 2019, Georgia, Amerika Birleşik Devletleri, 4 - 08 Ağustos 2019, cilt.2019-August

## **Metrikler**

Yayın: 18

Atf (WoS): 53

Atf (Scopus): 102

H-İndeks (WoS): 5

H-İndeks (Scopus): 7