

Asst. Prof. DERYA BETÜL ÜNSAL ÇELİMLİ

Personal Information

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Biography

Dr. Unsal received the Ph.D. degree in Electrical and Electronics Engineering from Selcuk University, Turkey in 2018. She is currently working as an Assist. Prof. in Science of Energy and Technology Engineering Department at Cumhuriyet University, where she leads the Renewable Energy Research Center. Her current research interests include Communication in Power Networks, Distributed Generation, Micro Grids, Renewables, Electric Vehicle Integrations, and Cybersecurity in Smart Grids.

Education Information

Doctorate, Selcuk University, Institute Of Science, Electrical and Electronics Engineering PhD, Turkey 2014 - 2018

Foreign Languages

Russian, A2 Elementary

English, C1 Advanced

Certificates, Courses and Trainings

Cyber Security, Yapay Zeka ve Veri Güvenliği, Bilkent Üniversitesi, 2020

Dissertations

Doctorate, Controlling the Distributed Energy Resources Using Smart Grid Communication Technologies, Selcuk University, Institute Of Science, Electrical and Electronics Engineering PhD, 2018

Research Areas

Communication Networks, Wireless Communication, Optical Communication, Sattelite Communication, Information Security and Reliability, Neural Networks, Electrical and Electronics Engineering, Generating Stations and Plants, Electric Power Transmission, Distribution and Protection, Renewable energy

Academic Titles / Tasks

Assistant Professor, Sivas Cumhuriyet University, Fen Bilimleri Enstitüsü, Fen Bilimleri Enstitüsü, 2019 - Continues
Research Assistant PhD, Sivas Cumhuriyet University, Mühendislik Fakültesi, Elektrik Elektronik Mühen., 2018 - 2019

Courses

Sayısal Elektronik Laboratuvarı, Under Graduate, 2019 - 2020
Elek/Elektr. Müh. Giriş-1, Under Graduate, 2019 - 2020
Elek/Elektr. Müh. Giriş-2, Under Graduate, 2018 - 2019
Sayısal Elektronik Laboratuvarı, Under Graduate, 2019 - 2020
Elek/Elektr. Müh. Giriş-2, Under Graduate, 2018 - 2019
Sayısal Elektronik, Under Graduate, 2019 - 2020
Enerji Üretim Ve İletimi, Under Graduate, 2019 - 2020
Elek/Elektr. Müh. Giriş-1, Under Graduate, 2019 - 2020
Enerji Üretim Ve İletimi, Under Graduate, 2019 - 2020
Seminer Dersi, Post Graduate, 2019 - 2020
Enerji Dağıtım, Under Graduate, 2018 - 2019
Enerji Dağıtım, Under Graduate, 2018 - 2019
Uzmanlık Alan Dersi, Post Graduate, 2019 - 2020
Sayısal Elektronik, Under Graduate, 2019 - 2020
Biyomedikal Cihazlar, Associate Degree, 2019 - 2020
Bitirme Ödevi, Under Graduate, 2018 - 2019
ENERJİ ÜRETİMİ VE İLETİMİ, Under Graduate, 2017 - 2018
Elektrikle Tahrik, Under Graduate, 2018 - 2019
Elektrikle Tahrik, Under Graduate, 2018 - 2019
ELEKTRİK ELEKTRONİK MÜHENDİSLİĞİNE GİRİŞ-I, Under Graduate, 2017 - 2018
Bitirme Ödevi, Under Graduate, 2018 - 2019

Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- I. **Enhancing Cybersecurity in Smart Grids: False Data Injection and Its Mitigation**
Ünsal D. B. , Ustun T. S. , Hussain S. M. S. S. , Önen A.
Energies, vol.14, no.9, pp.1-36, 2021 (Journal Indexed in SCI Expanded)
- II. **Medium voltage and Low Voltage applications of new power line communication model for smart grids**
Ünsal Çelimli D. B.
Proceedings Of The IEEE, vol.2016, no.1, 2016 (Journal Indexed in SCI)
- III. **Applications of New Power Line Communication Model for Smart Grid**
Ünsal Çelimli D. B.
International Journal Of Electrical Power & Energy Systems, vol.7, no.3, pp.168-178, 2016 (Journal Indexed in SCI)

Articles Published in Other Journals

- I. **Impact and Control Study of LV Communication Networks with PV Penetrated Micro Grid**
Ünsal Çelimli D. B. , Önen A., Kulaksız A. A.
International Research Journal of Engineering and Technology (IRJET), vol.6, no.8, pp.1402-1411, 2019 (Journal Indexed in ESCI)

Refereed Congress / Symposium Publications in Proceedings

- I. **Increasing Accessibility Level with Smart Ramp Solution for Registered Buildings in Sivas Historical City Square**

ÜNSAL ÇELİMLİ D. B.

ICMEPS 2021, Kayseri, Turkey, 04 May 2021

- II. **A review: communication security on smart grid**
ÜNSAL ÇELİMLİ D. B. , TORUN Y., AKSÖZ A.
7th Eur. Conf. Ren. Energy Sys, 10 - 12 June 2019
- III. **Adaptive Neuro-Fuzzy Interface System-based Energy Management Application for a Residential Photovoltaic On-Grid System**
BAKIR H., KULAKSIZ A. A. , ÜNSAL ÇELİMLİ D. B.
International Conference on Energy Research, 11 - 13 April 2019
- IV. **Investigation of Energy Quality on MGs Under High Penetration of PV Generation**
ÜNSAL ÇELİMLİ D. B. , KULAKSIZ A. A. , ÖNEN A.
International Conference on Innovative Engineering Applications, Sivas, Turkey, 20 - 22 October 2018
- V. **Controlling The Distributed Energy Resources Using Smart Grid Standards**
ÜNSAL ÇELİMLİ D. B. , DOĞAN H., TORUN Y., KOÇKANAT S.
International Conference on Innovative Engineering Applications 2018, Sivas, Turkey, 20 - 22 September 2018, pp.578-585
- VI. **Investigation of LV Networks with EVs under High Penetration of PV Generation**
ÜNSAL ÇELİMLİ D. B. , KULAKSIZ A. A. , ÖNEN A.
IATS 2017, Elazığ, Turkey, 19 - 22 October 2017, vol.9, pp.3609-3617
- VII. **ELECTRICAL PARAMETER DETERMINATION OF AL P SI SCHOTTKY DIODE FROM I V AND C V CURVES USING MABC BASED METHOD**
KOÇKANAT S., DOĞAN H., TÜRKAY Y., ÇIKAN M., ÜNSAL ÇELİMLİ D. B.
5th International Conference on Advanced Technology Sciences, 9 - 12 May 2017
- VIII. **ANNEALING TEMPERATURE DEPENDENT CHARACTERIZATION OF NI AU N GAN SCHOTTKY DIODE USING ARTIFICIAL BEE COLONY ALGORITHM**
DOĞAN H., KOÇKANAT S., TÜRKAY Y., ŞEKER M., ÇIKAN M., ÜNSAL ÇELİMLİ D. B.
5th International Conference on Advanced Technology Sciences, 9 - 12 May 2017
- IX. **PHOTOELECTRICAL PARAMETER CALCULATION OF METAL ORGANIC INORGANIC PHOTO DIODE USING AN APPROACH BASED MABC ALGORITHM**
DOĞAN H., KOÇKANAT S., TÜRKAY Y., ÇIKAN M., ÜNSAL ÇELİMLİ D. B.
5th International Conference on Advanced Technology Sciences, 9 - 12 May 2017
- X. **CURRENT VOLTAGE CURVE PREDICTION OF ANNEALED NI N GAAS SI IN SCHOTTKY BARRIER DIODE USING ANFIS**
KOÇKANAT S., DOĞAN H., TÜRKAY Y., ŞEKER M., ÜNSAL ÇELİMLİ D. B. , ÇIKAN M.
5th International Conference on Advanced Technology Sciences, 9 - 12 May 2017
- XI. **ABC method analysis for the Capacitance Voltage characteristics of Ni n GaAs In schottky barrier diode**
DOĞAN H., KOÇKANAT S., ÜNSAL ÇELİMLİ D. B.
NanoTR-12, 3 - 05 June 2016
- XII. **ABC Artificial Bee Colony method analysis for the Capacitance Voltage characteristics of Ni n GaAS In schottky barrier diode**
ÜNSAL ÇELİMLİ D. B. , DOĞAN H., KOÇKANAT S.
NANOTR12, İzmit, Turkey, 3 - 05 June 2016
- XIII. **The parameter extraction of Al Ruthenium II complex p Type Si Heterojunction diode using optimization method**
ÜNSAL ÇELİMLİ D. B. , DOĞAN H., KOÇKANAT S.
NANOTR12, 3 - 05 June 2016
- XIV. **ABC method analysis for the Capacitance Voltage characteristic of Ni n GaAS In schottky barrier diode**
DOĞAN H., KOÇKANAT S., ÜNSAL ÇELİMLİ D. B.
12th International Nanoscience and Nanotechnology Conference, 3 - 05 June 2016

XV. Medium Voltage and Low Voltage Applications of New Power Line Communication Model for Smart Grids

ÜNSAL ÇELİMLİ D. B. , Koc A. H. , Yalcinoz T, Onaran I.

IEEE International Energy Conference (ENERGYCON), Leuven, Belgium, 4 - 08 April 2016

XVI. New Power Line Communication Model For Smart Grids

ÜNSAL ÇELİMLİ D. B.

International Conference on Electrical and Electronics Engineering 2015, 28 - 29 April 2015

XVII. PWM UYGULAMALI ÇİZGİ İZLEYEN ROBOT TASARIMI

Unsal D. B.

5.ULUSLARARASI ROBOT YARIŞMASI, Ankara, Turkey, 12 - 13 May 2011

Supported Projects

Kaya H., Ünsal Çelimli D. B. , Project Supported by Higher Education Institutions, Enerji verimliliği yaklaşımı ile Akıllı Kampüs Aydınlatma Projesi; Sivas Cumhuriyet Üniversitesi Uygulaması, 2019 - 2020

Ünsal Çelimli D. B. , Torun Y., EU Supported Other Project, Robot Laboratuvarı Kurulması ve Robot Eğitimlerinin verilmesi TRH2 2 IQVETII P 03 977, 2014 - 2015

Activities in Scientific Journals

Iet Communications, Publication Committee Member, 2020 - Continues

Annales Des Telecommunications-Annals Of Telecommunications, Publication Committee Member, 2017 - Continues

Memberships / Tasks in Scientific Organizations

IEEE, Member, 2011 - Continues, Turkey

Scientific Refereeing

TUBITAK Project, 1005 - National New Ideas and Products Research Support Program, Sivas Cumhuriyet University, Turkey, June 2021

TUBITAK Project, 1011 - International Scientific Research Projects Participation Program (UBAP), Sivas Cumhuriyet University, Turkey, June 2021

TUBITAK Project, 1507 - TÜBİTAK SME R&D Start Support Program, Sivas Cumhuriyet University, Turkey, May 2021

IEEE TRANSACTIONS ON SUSTAINABLE ENERGY, SCI Journal, August 2020

IET COMMUNICATIONS, SCI Journal, August 2020

ANNALES DES TELECOMMUNICATIONS-ANNALS OF TELECOMMUNICATIONS, SCI Journal, June 2020

Tasks In Event Organizations

Ünsal Çelimli D. B. , Yıldırım T., ASYU 2021, Scientific Congress, Elazığ, Turkey, Ekim 2021

Ünsal Çelimli D. B. , Yıldırım T., IEEE INISTA 2021, Scientific Congress, Kocaeli, Turkey, Ağustos 2021

Ünsal Çelimli D. B. , Önen A., ICMEPS 2021, Scientific Congress, Kayseri, Turkey, Haziran 2021

Ataseven H., Ünsal Çelimli D. B. , Şeker A., 1.Enerji Günleri Sempozyumu, Scientific Congress, Sivas, Turkey, Haziran 2021

Ünsal Çelimli D. B. , Ataseven H., Verimli Toplantılar, Scientific Congress, Sivas, Turkey, Mayıs 2021

Edit Congress and Symposium Activities

ICMEPS 2021, Moderator, Kayseri, Turkey, 2021

Citations

Total Citations (WOS):11

h-index (WOS):1

Scholarships

Öncelikli Alanlarda Doktora Tez Çalışması, TÜBİTAK, 2015 - 2018

Representation and Promotion Activities

Institutional Promotion, Cumhuriyet Üniversitesi, Turkey, Sivas, 2021 - 2021

Non Academic Experience

Special Research Center, Sivas Cumhuriyet University, Rektörlük