



DERYA BETÜL ÜNSAL ÇELİMLİ

ASST. PROF.

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Address : Sivas Cumhuriyet University, Graduate School of Natural and Applied Sciences, Department of Energy Science and Technology, Merkez / SIVAS / TURKEY

International Researcher IDs

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Publons / Web Of Science ResearcherID: AAO-5324-2021

ScopusID: 57223914154

Yoksis Researcher ID: 110828



Biography

Dr. Unsal received a Ph.D. degree in Electrical and Electronics Engineering from Selcuk (Konya Technical) University, Turkey in 2018. She is currently working as an Assistant Professor at Sivas Cumhuriyet University, where she leads the Renewable Energy Research Center (CUYEM). Her current research interests include Communication in Power Networks, Renewables, Distributed Generation Integrations, Micro Grids, Electric Vehicle Integrations, and also Cybersecurity in Smart Grids.

Education

Doctorate
2014 - 2018

Ankara Yıldırım Beyazıt University, Fen Bilimleri Enstitüsü, Elektrik ve Elektronik Mühendisliği Doktora (İngilizce) , Turkey

Doctorate
2014 - 2018

Selçuk Üniversitesi (Konya Teknik Üniversitesi), Fen Bilimleri Enstitüsü, Electrical and Electronics Engineering PhD, Turkey

Foreign Languages

Russian, A2 Elementary

English, C1 Advanced

Certificates, Courses and Trainings

Renewable Energy Sources, Yenilenebilir Enerji ve Enerji Verimliliği Uzmanlığı Eğitimi, Enerji ve Tabii Kaynaklar Bakanlığı, 2021

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

Academic Titles / Tasks

Assistant Professor
2019 - Continues

Sivas Cumhuriyet University, Fen Bilimleri Enstitüsü, Fen Bilimleri Enstitüsü

Research Assistant PhD
2018 - 2019

Sivas Cumhuriyet University, Mühendislik Fakültesi, Elektrik Elektronik Müh.

Supported Projects

1. Kaya H., Ünsal Çelimli D. B., Aksöz A., Akkoyun S., Torun Y., Project Supported by Higher Education Institutions, Enerji verimliliği yaklaşımı ile Akıllı Kampüs Aydınlatma Projesi; Sivas Cumhuriyet Üniversitesi Uygulaması, 2019 - 2020
2. 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

Scholarships

Öncelikli Alanlarda Doktora Tez Çalışması, TÜBİTAK, 2015 - 2018

Published journal articles indexed by SCI, SSCI, and AHCI

1. **Impact of Environmental Conditions on Renewable Energy Prediction: An Investigation Through Tree-Based Community Learning**
Doğan F., Oyucu S., ÜNSAL ÇELİMLİ D. B., AKSÖZ A., Vafaeipour M.
Applied Sciences (Switzerland), vol.15, no.1, 2025 (SCI-Expanded)
2. **A Comparative Study of AI Methods on Renewable Energy Prediction for Smart Grids: Case of Turkey**
ÜNSAL ÇELİMLİ D. B., AKSÖZ A., Oyucu S., Guerrero J. M., Guler M.
Sustainability (Switzerland), vol.16, no.7, 2024 (SCI-Expanded)
3. **Enhancing Cybersecurity in Smart Grids: False Data Injection and Its Mitigation**
ÜNSAL ÇELİMLİ D. B., Ustun T. S., Hussain S. M. S., ÖNEN A.
ENERGIES, vol.14, no.9, 2021 (SCI-Expanded)
4. **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 (SCI-Expanded)

Articles Published in Other Journals

1. **Impact of Solar Cell Infrastructures on Energy Efficiency in Power Grid Integration**
UNSA D. B.

- Cumhuriyet Science Journal, vol.45, no.2, pp.309-321, 2024 (Peer-Reviewed Journal)
2. **POWER LINE COMMUNICATION APPLICATIONS FOR SMART GRIDS**
ÜNSAL ÇELİMLİ D. B.
International Research Journal of Engineering and Technology, vol.9, no.12, pp.1607-1610, 2022 (Peer-Reviewed Journal)
 3. **SUSTAINABILITY ANALYSIS ON SMART GRID MODEL WITH UNMANNED AERIAL VEHICLES**
ÜNSAL ÇELİMLİ D. B.
International Research Journal of Engineering and Technology, vol.9, no.12, pp.1611-1616, 2022 (Peer-Reviewed Journal)
 4. **SECURITY ANALYSIS OF SMART GRIDS**
ÜNSAL ÇELİMLİ D. B.
International Journal of Advanced Research, vol.10, no.12, pp.1210-1215, 2022 (Scopus)
 5. **IMPLEMENTING SUSTAINABLE SMART CITY MODEL OF A UNIVERSITY CAMPUS**
ÜNSAL ÇELİMLİ D. B.
International Research Journal of Engineering and Technology, vol.8, no.12, pp.1710-1716, 2021 (Peer-Reviewed Journal)
 6. **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 (Peer-Reviewed Journal)
 7. **Applications of New Power Line Communication Model for Smart Grid**
Ünsal Çelimli D. B.
International Journal of Electrical and Computer Engineering, vol.7, no.3, pp.168-178, 2016 (Scopus)

Books

1. **ENERJİ 4.0 İLE KAMPÜS İÇİ ENERJİ VERİMLİLİĞİ**
ÜNSAL ÇELİMLİ D. B.
in: TÜM YÖNLERİYLE ENERJİ 4.0 VE YAPAY ZEKA, ÜNSAL ÇELİMLİ DERYA BETÜL, ŞENGÖNÜL AHMET, Editor, SİVAS CUMHURİYET ÜNİVERSİTESİ, Sivas, pp.57-67, 2024
2. **İKTİSADİ BAKIŞLA SÜRDÜRÜLEBİLİRLİK VE ENERJİ 4.0**
ŞENGÖNÜL A., ÜNSAL ÇELİMLİ D. B.
in: TÜM YÖNLERİYLE ENERJİ 4.0 VE YAPAY ZEKA, ÜNSAL ÇELİMLİ DERYA BETÜL, ŞENGÖNÜL AHMET, Editor, SİVAS CUMHURİYET ÜNİVERSİTESİ, Sivas, pp.7-17, 2024
3. **SMART GRID RENEWABLE INTEGRATION SECURITY**
ÜNSAL ÇELİMLİ D. B.
in: Engineering Sciences Issues, Opportunities and Researches, KURT, Halil İbrahim; ERGÜL, Engin, Editor, Livre De Lyon, Lyon, pp.1-18, 2023
4. **Akıllı Bina Sistemlerinde IOT Uygulamaları ile Enerji Yönetimi**
ÜNSAL ÇELİMLİ D. B., CERAN ÇAMAYAZ Z.
in: MULTİDİSİPLİNER BAKIŞ AÇISIYLA "TÜRKİYE'DE ENERJİ", Derya Betül ÜNSAL, Hilmi ATASEVEN, Editor, Sivas Cumhuriyet Üniversitesi Yayınevi, Sivas, pp.233-243, 2022
5. **RECENT INTERNATIONAL ENERGY RESEARCH EFFECTS ON MULTIDISCIPLINARY SCIENCES**
ÜNSAL ÇELİMLİ D. B.
in: INTERNATIONAL ENERGY RESEARCH AND APPLICATIONS, ALİM YILDIZ, DERYA BETÜL ÜNSAL, Editor, Sivas Cumhuriyet Üniversitesi, Sivas, pp.62-72, 2022
6. **INVESTIGATING ELECTRIC VEHICLE INTEGRATION WITH SMART MICRO GRID APPLICATION**
ÜNSAL ÇELİMLİ D. B.
in: INTERNATIONAL ENERGY RESEARCH AND APPLICATIONS, ALİM YILDIZ, DERYA BETÜL ÜNSAL, Editor, SİVAS CUMHURİYET ÜNİVERSİTESİ, Sivas, pp.242-249, 2022

7. **Akıllı Şebekelerde Kullanılan Bina Sistemleri ve Erişilebilirlik Yönüyle AFAD Sivas Ofisi Uygulaması**
ÜNSAL ÇELİMLİ D. B., GÜNEŞ İ.
in: MULTİDİSİPLİNER BAKIŞ AÇISIYLA "TÜRKİYE'DE ENERJİ", Derya Betül ÜNSAL, Hilmi ATASEVEN, Editor, Sivas Cumhuriyet Üniversitesi Yayınevi, Sivas, pp.251-261, 2022
8. **ÜNİVERSİTE KAMPÜS BİNALARI İÇİN ENERJİ VERİMLİLİĞİ VE TASARRUFU ÖNERİLERİ**
ÜNSAL ÇELİMLİ D. B., KARABULUT K.
in: Mühendislik Alanında Araştırma ve Değerlendirmeler , Doç. Dr. Selahattin BARDAK, Dr. Öğr. Üyesi Neslihan AYDIN, Dr. Öğr. Üyesi Yalçın BOZTOPRAK, Editor, Gece Kitaplığı Yayınevi, Ankara, pp.187-197, 2021
9. **ENERJİ VE ÇEVRE BAKIŞ AÇISIYLA SÜRDÜRÜLEBİLİRLİK**
Ünsal Çelimli D. B.
in: ULUSLARARASI ÇEVRE SORUNLARINA GENEL BAKIŞ, DERYA BETÜL ÜNSAL, MELTEM SARIOĞLU CEBECİ, TURGAY BIŞGİN, AHMET TURAN BOZPOLAT, Editor, Nobel Yayınevi, Ankara, pp.183-193, 2021

Papers Published in Refereed Scientific Meetings

1. **Fake Voice Detection: A Hybrid CNN-LSTM Based Deep Learning Approach**
ÜNSAL ÇELİMLİ D. B., AKSÖZ A., OYUCU S.
2024 8th International Symposium on Multidisciplinary Studies and Innovative Technologies (ISMSIT), Ankara, Turkey, 28 - 29 November 2024
2. **PHOTOVOLTAICS ENERGY CONTRIBUTION AND THEIR IMPACT ON CARBON EMISSIONS REDUCTION IN TÜRKİYE**
ÜNSAL ÇELİMLİ D. B.
II. International Energy Days Symposium, Sivas, Turkey, 27 September 2023, vol.1, pp.339-345
3. **IMPROVEMENTS OF NEXT GENERATION IOT APPLICATIONS SECURITY CHALLENGES**
PEKDEMİR Z., YÜKSEK A. G., ÜNSAL ÇELİMLİ D. B.
II. International Energy Days, Sivas, Turkey, 27 September 2023, vol.2, pp.329-338
4. **Electromagnetic Field Levels Analysis for Grid Connected Smart Devices**
ÜNSAL ÇELİMLİ D. B., KURT H.
International Energy Days, Sivas, Turkey, 04 October 2022, vol.1, pp.75-79
5. **Protection of Microgrids with Renewable Integration**
ÜNSAL ÇELİMLİ D. B., PEKDEMİR Z.
International Energy Days Symposium, Sivas, Turkey, 3 - 04 October 2022, vol.1, pp.80-85
6. **The Impact of Energy Researches on Current Interdisciplinary Sciences**
ÜNSAL ÇELİMLİ D. B.
INTERNATIONAL ENERGY DAYS SYMPOSIUM, Sivas, Turkey, 04 October 2022, vol.1, pp.65-69
7. **Energy efficient solutions for grid-connected smart buildings**
ÜNSAL ÇELİMLİ D. B., CERAN ÇAMAYAZ Z.
INTERNATIONAL ENERGY DAYS SYMPOSIUM, Sivas, Turkey, 3 - 04 October 2022, vol.1, pp.57-61
8. **INVESTIGATION OF SMART CAMPUS DESIGN FOR ENERGY PROVIDENCE AND EFFICIENCY**
ÜNSAL ÇELİMLİ D. B.
8th International Applied Sciences Congress, Turkey, 24 - 26 December 2021, pp.145-155
9. **Applications of Neural Network For Smart Grid Security with Renewables Integration**
ÜNSAL ÇELİMLİ D. B.
8th International Applied Sciences Congress, Turkey, 24 - 26 December 2021, pp.135-145
10. **INVESTIGATION OF LSTM FOR ENERGY DEMAND RESPONSE APPLICATIONS**
Ünsal Çelimli D. B., Güler M.
TUBA World Conference on Energy Science and Technology (TUBA WCEST-2021), İstanbul, Turkey, 8 - 12 August 2021, vol.1, no.143, pp.143-151
11. **TUBA World Conference on Energy Science and Technology (TUBA WCEST-2021) Book of Abstracts**
ÜNSAL ÇELİMLİ D. B., GÜLER M.

TUBA World Conference on Energy Science and Technology (TUBA WCEST-2021), İstanbul, Turkey, 08 August 2021, vol.1, pp.143-150

12. **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
13. **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
14. **Adaptive Neuro-Fuzzy Interface System-based Energy Management Application for a Residential Photovoltaic On-Grid System**
BAKIR H., younas u., ÜNSAL ÇELİMLİ D. B., KULAKSIZ A. A.
International Conference on Energy Research, Marmaris, 11 - 13 April 2019
15. **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
16. **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
17. **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
18. **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
19. **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
20. **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
21. **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
22. **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
23. **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
24. **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

25. **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
26. **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
27. **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
28. **New Power Line Communication Model For Smart Grids**
ÜNSAL ÇELİMLİ D. B.
International Conference on Electrical and Electronics Engineering 2015, 28 - 29 April 2015
29. **PWM UYGULAMALI ÇİZGİ İZLEYEN ROBOT TASARIMI**
Unsal D. B.
5.ULUSLARARASI ROBOT YARIŞMASI, Ankara, Turkey, 12 - 13 May 2011

Artistic Activity

- ÜNSAL ÇELİMLİ D. B., Dağıtık Şebekeler- Akıllı Şebekeler- Süper Şebekeler, January 2015
ÜNSAL ÇELİMLİ D. B., BİTİRME PROJELERİ SERGİSİ -PWM UYGULAMALI DC MOTOR İLE HIZ KONTROLLÜ ÇİZGİ İZLEYEN BİR ROBOTUN TASARIMI VE GERÇEKLENMESİ-DANIŞMANI: YRD.DOÇ.DR. YAVUZ TÜRKAY , June 2011

Academic and Administrative Experience

| | | |
|------------------|---|---|
| 2020 - Continues | Manager of Research and Application Center | Sivas Cumhuriyet University, REKTÖRLÜK, Yeni ve Yenilenebilir Enerji Uygulama ve Araştırma Merkezi (CUEM) |
|------------------|---|---|

Courses

Postgraduate

- Seminer Dersi, Postgraduate, 2019 - 2020
Uzmanlık Alan Dersi, Postgraduate, 2019 - 2020

Undergraduate

- Sayısal Elektronik Laboratuvarı, Undergraduate, 2019 - 2020
Elek/Elektr. Müh. Giriş-1, Undergraduate, 2019 - 2020
Elek/Elektr. Müh. Giriş-2, Undergraduate, 2018 - 2019
Sayısal Elektronik Laboratuvarı, Undergraduate, 2019 - 2020
Elek/Elektr. Müh. Giriş-2, Undergraduate, 2018 - 2019
Sayısal Elektronik, Undergraduate, 2019 - 2020
Enerji Üretim Ve İletimi, Undergraduate, 2019 - 2020
Elek/Elektr. Müh. Giriş-1, Undergraduate, 2019 - 2020
Enerji Üretim Ve İletimi, Undergraduate, 2019 - 2020
Enerji Dağıtım, Undergraduate, 2018 - 2019
Enerji Dağıtım, Undergraduate, 2018 - 2019
Sayısal Elektronik, Undergraduate, 2019 - 2020

Bitirme Ödevi, Undergraduate, 2018 - 2019
ENERJİ ÜRETİMİ VE İLETİMİ, Undergraduate, 2017 - 2018
Elektrikle Tahrik, Undergraduate, 2018 - 2019
Elektrikle Tahrik, Undergraduate, 2018 - 2019
ELEKTRİK ELEKTRONİK MÜHENDİSLİĞİNE GİRİŞ-I, Undergraduate, 2017 - 2018
Bitirme Ödevi, Undergraduate, 2018 - 2019
Associate Degree
Biyomedikal Cihazlar, Associate Degree, 2019 - 2020

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

Peer Reviews in Scientific Publications

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

Scientific Project Refereeing

TUBITAK Project, 1005 - National New Ideas and Products Research Support Program, June 2021
TUBITAK Project, 1011 - International Scientific Research Projects Participation Program (UBAP), June 2021
TUBITAK Project, 1507 - TÜBİTAK SME R&D Start Support Program, May 2021

Tasks In Event Organizations

Ünsal Çelimli D. B., INTERNATIONAL ENERGY DAYS SYMPOSIUM, Scientific Congress, Sivas, Turkey, Ekim 2022
Ünsal Çelimli D. B., ÇEVRE VE ENERJİ SEMPOZYUMU, Scientific Congress, Sivas, Turkey, Haziran 2022
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

Metrics

Publication: 51
Citation (WoS): 28
Citation (Scopus): 28
H-Index (WoS): 5

H-Index (Scopus): 5

Congress and Symposium Activities

INTERNATIONAL ENERGY DAYS, Moderator, Sivas, Turkey, 2023
5. INTERNATIONAL PCFM CONFERENCE, Moderator, Sivas, Turkey, 2022
ENVIRONMENT AND ENERGY SYMPOSIUM, Moderator, Sivas, Turkey, 2022
SUSTAINABLE ENERGY CONFERENCE, Moderator, Sivas, Turkey, 2022
ICMEPS 2021, Moderator, Kayseri, Turkey, 2021
ÇEVRE GÜNLERİ, Working Group, Sivas, Turkey, 2021
I. ENERJİ GÜNLERİ, Working Group, Sivas, Turkey, 2021

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

Representation and Promotion Activities

Institutional Promotion, Sivas Cumhuriyet Üniversitesi, Turkey, Sivas, 2023 - 2023
Institutional Promotion, Sivas Cumhuriyet Üniversitesi, Turkey, Sivas, 2023 - 2023
Institutional Promotion, Sivas Cumhuriyet Üniversitesi, Turkey, Sivas, 2023 - 2023
Institutional Promotion, Sivas Cumhuriyet Üniversitesi, Turkey, Sivas, 2023 - 2023
Institutional Promotion, Sivas Cumhuriyet Üniversitesi, Turkey, Sivas, 2023 - 2023
Institutional Promotion, Sivas Cumhuriyet Üniversitesi, Turkey, Sivas, 2023 - 2023
Institutional Promotion, Sivas Cumhuriyet Üniversitesi, Turkey, Sivas, 2021 - 2021
Institutional Promotion, YENİ VE YENİLENEBİLİR ENERJİ UYGULAMA VE ARAŞTIRMA MERKEZİ, Turkey, Sivas, 2021 - 2021
Institutional Promotion, Sivas Cumhuriyet Üniversitesi, Turkey, Sivas, 2021 - 2021
Institutional Promotion, Sivas Cumhuriyet Üniversitesi, Turkey, Sivas, 2021 - 2021
Institutional Promotion, Sivas Cumhuriyet Üniversitesi, Turkey, Sivas, 2021 - 2021
Institutional Promotion, Sivas Cumhuriyet Üniversitesi, Turkey, Sivas, 2021 - 2021
Institutional Promotion, Sivas Cumhuriyet Üniversitesi, Turkey, Sivas, 2021 - 2021
Institutional Promotion, Sivas Cumhuriyet Üniversitesi, Turkey, Sivas, 2021 - 2021
Institutional Promotion, Cumhuriyet Üniversitesi Youtube, Turkey, Sivas, 2021 - 2021

Non Academic Experience

DEVLET PLANLAMA TEŞKİLATI, STAJYER MÜHENDİS
TÜRK STANDARTLARI ENSTİTÜSÜ, STAJYER MÜHENDİS