Prof. İRFAN ALAN



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International Researcher IDs

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Yoksis Researcher ID: 8959



Doctorate, The University of Wisconsin Madison, Graduate School, Electrical Engineering, United States Of America 1987 - 1993

Postgraduate, Istanbul Technical University, Fen Bilimleri Enstitüsü, Elektrik

Mühendisliği, Turkey 1983 - 1986

Undergraduate, Istanbul Technical University, Elektrik-Elektronik Fakültesi, Elektrik

Mühendisliği, Turkey 1979 - 1983

Biography

Irfan Alan was born in Istanbul in 1962, is married and has 3 children. His B.Sc. and M.Sc. degrees are from Istanbul Technical University in Electrical Engineering in 1983 and 1986 respectively. His Ph.D. degree is from University of Wisconsin-Madison in Electrical and Computer Engineering in 1993. He carried out his Ph.D. and post doc studies at WEMPEC, UW-Madison. He worked for various NASA projects at different capacities. His field of interests are Electrical Machine Drives, Power Electronic Converters, Induction Heating, Switched Mode Power Supplies, Electrical Vehicle Battery Charging Systems, Inductive Charging, Energy Storage and Smart Grid Systems.

He has served as an academician at the Electrical-Electronics Engineering Department at Ege University for 16 years in various Prof. capacities ending with full Professorship. He has taught many undergraduate and graduate level courses, supervised many M.Sc. and Ph.D. students, served in various international and national projects as either principal investigator or project manager. He has many international and national scientific journal and conference papers. He has been either a project referee or an auditor for many nationally funded projects. He has served as an editor, coeditor or referee for many international and national journals or conference papers. He holds a patent, has a pending patent application, and a beneficial model.

Prof. Alan was assigned as a Vice Rector to Abdullah Gul University (AGU) in 2011. He has served as an Interim Rector at AGU for 6 months between 21st of June 2012 and 15th of Jan 2013. Since then, he is a Vice Rector at AGU responsible for Administrative and Financial Affairs serving the university in many different capacities. He is currently the Director of Graduate School of Engineering and Sciences, senate and executive committee member at AGU. He has served as



interim Dean for many Faculties and as school director for School of Foreign Languages at AGU. He served many years as a member of Inter-University Council (ÜAK) of Turkey. He is a member of Chamber of Electrical Engineers in Turkey.

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, The Feasibility Study of an Isolated Induction Motor / Induction Generator Power Conversion System Based upon a 20 kHz Parallel Resonant AC Link, The University of Wisconsin Madison, Graduate School, Electrical Engineering, 1993

Postgraduate, Direkt Frekans Çevirici, Istanbul Technical University, Fen Bilimleri Enstitüsü, Elektrik Mühendisliği, 1986

Research Areas

Electrical and Electronics Engineering, Energy, Direct Energy Conversion and Energy Storage, Power System Analysis, Renewable energy, Power Electronics, Electrical Machine Theory and Design, Electric Motor Drivers, Power Converters, Power Quality, Aeronautical and Space Engineering, Aeronautical Engineering, Space Engineering, Aircraft System Technologies, Electrical / Electronic, Electrical Power Systems, Power electronics - Power distribution and regulation, Electrical power supply, Engineering and Technology

Academic Titles / Tasks

Professor, Abdullah Gul University, Mühendislik Fakültesi, Elektrik Elektronik Mühendisliği, 2013 - Continues Professor, Ege University, Faculty Of Engineering, Elektrik Elektronik Mühendisliği, 2004 - 2013

Associate Professor, Ege University, Faculty Of Engineering, Elektrik Elektronik Mühendisliği, 1998 - 2004

Assistant Professor, Ege University, Faculty Of Engineering, Elektrik Elektronik Mühendisliği, 1997 - 1998

Research Assistant PhD, The University of Wisconsin Madison, Engineering Faculty, Electrical And Computer Engineering, 1993 - 1995

Research Assistant PhD, The University of Wisconsin Madison, Engineering Faculty, Electrical And Computer Engineering, 1993 - 1995

Research Assistant, The University of Wisconsin Madison, Engineering Faculty, Electrical And Computer Engineering, 1989 - 1993

Research Assistant, Istanbul Technical University, Elektrik Elektronik Fakültesi, Elektrik Mühendisliği, 1984 - 1986

Academic and Administrative Experience

Chairman of the BAP Committee, Abdullah Gul University, Rektörlük, 2015 - Continues Member of the Senate, Abdullah Gul University, Rektörlük, 2013 - Continues ÜAK Member, Abdullah Gul University, Rektörlük, 2013 - Continues Vice Rector, Abdullah Gul University, Rektörlük, 2013 - Continues University Executive Board Member, Abdullah Gul University, Rektörlük, 2011 - Continues Director Of Junior College, Abdullah Gul University, Yabancı Diller Yüksekokulu, 2015 - 2023 Dean, Abdullah Gul University, Bilgisayar Bilimleri Fakültesi, 2014 - 2020 Director of The Institution, Abdullah Gul University, Fen Bilimleri Enstitüsü, 2013 - 2020 Secretary General, Abdullah Gul University, Rektörlük, 2015 - 2016

Rector, Abdullah Gul University, Rektörlük, 2012 - 2013 Abdullah Gül Üniversitesi, Mühendislik Fakültesi, Elektrik Elektronik Mühendisliği, 2011 - 2013 Vice Rector, Abdullah Gul University, Rektörlük, 2011 - 2012

Courses

Advanced Theory of Power Electronics (Spring 2022-2023), Postgraduate, 2022 - 2023

Advanced Theory of Electrical Machines (Fall 2023-2024), Postgraduate, 2023 - 2024

Ph.D. Special Topics (Spring 2022-2023), Doctorate, 2022 - 2023

M.Sc. Special Topics (Fall 2022-2023), Postgraduate, 2022 - 2023

M.Sc. Thesis (Fall 2022-2023), Postgraduate, 2022 - 2023

Advanced Theory of Power Electronics (Spring 2021-2022), Postgraduate, 2021 - 2022

Ph.D. Thesis (Fall 2022-2023), Doctorate, 2022 - 2023

Ph.D. Special Topics (Fall 2022-2023), Doctorate, 2022 - 2023

Advanced Theory of Electrical Machines. (Fall 2021-2022), Postgraduate, 2021 - 2022

Senior Design Projects II, Undergraduate, 2020 - 2021

Undergraduate Research Project IV, Undergraduate, 2020 - 2021

Senior Design Project I, Undergraduate, 2020 - 2021

Advising Theses

 $Alan\ I.,\ Avgin\ I.,\ Design\ of\ a\ Switched\ Reluctance\ Machine\ (SRM),\ Doctorate,\ K.Doğan(Student),\ Continues$

Alan I., Systematic Design Optimization and Implementation of Line-Start Synchronous Reluctance Machine for Down Hole Submersible Water Pump Applications, Doctorate, D.Tekgün(Student), 2022

ALAN İ., Asenkron Motor Kontrol Sürücü Sistemleri için Gömülü Sistem Tasarımı ve Gerçeklemeleri, Doctorate, Ö.Akın(Student), 2014

ALAN İ., Yüksek Frekanslı İndüksiyon Kaynak Makinesi Tasarımı, Postgraduate, Y.Efteli(Student), 2012

ALAN İ., Rüzgar Türbin Uygulamasında Sürekli Mıknatıslı Senkron Jeneratörün Hız Sensörsüz Kontrolü ve Şebeke Bağlantısı, Postgraduate, R.Gökalan(Student), 2011

ALAN İ., Elektromanyetik Uyumluluk ve Alçak Gerilim Test Laboratuvarı Kurulumu ve Akreditasyonu için Altyapı Çalışmaları, Postgraduate, K.Doğan(Student), 2007

ALAN İ., Asenkron Makinenin Yapay Sinir Ağları ile Modellenmesi, Postgraduate, B.Uğur (Student), 2006

ALAN İ., Asenkron Makinanın Alan Yönlendirme Kontrolünde FPGA Kullanımı, Postgraduate, Ö.Akın(Student), 2005

ALAN İ., Hibrit Kaynaktan Beslenebilen İndüksiyonla Su ve Bina Isıtma Sisteminin Tasarımı ve Performans Analizi, Doctorate, M.Necdet(Student), 2005

ALAN İ., TV Uygulamaları için Bekleme Modunda 1W'ın Altında Güç Tüketen Flyback Tipi Anahtarlamalı Güç Kaynağı Tasarımı ve Gerçekleştirilmesi, Postgraduate, M.Selim(Student), 2001

ALAN İ., Matris Dönüştürücü Aracılığı ile Asenkron Jeneratörden Üç Fazlı Şebeke Oluşturulmasının Fizibilite Çalışması, Postgraduate, K.Yumbul(Student), 2001

ALAN İ., Yüksek Frekanslı AC link Oluşturulması ve Performansının İyileştirilmesi, Postgraduate, M.Necdet(Student), 1999

Published journal articles indexed by SCI, SSCI, and AHCI

- I. A multi-functional quasi-single stage bi-directional charger topology for electric vehicles Tekgün B., Tekgün D., Alan I.
 - AIN SHAMS ENGINEERING JOURNAL, vol.15, no.3, pp.1-9, 2024 (SCI-Expanded)
- II. Investigating the Tradeoff Between the MMF Distortion and End Turn Length of a 2-Pole Line Start

SynRM Performance

Tekgun D., Cosdu M. M., Tekgün B., Alan İ.

IRANIAN JOURNAL OF SCIENCE AND TECHNOLOGY - TRANSACTIONS OF ELECTRICAL ENGINEERING, vol.47, pp.1447-1457, 2023 (SCI-Expanded)

III. FEA based fast topology optimization method for switched reluctance machines

Tekgun D., TEKGÜN B., ALAN İ.

ELECTRICAL ENGINEERING, vol.104, no.4, pp.1985-1995, 2022 (SCI-Expanded)

IV. A new oval shaft, high performance, 2 pole line start synchronous reluctance machine for submersible pump applications

Tekgun D., ALAN İ.

INTERNATIONAL JOURNAL OF APPLIED ELECTROMAGNETICS AND MECHANICS, vol.70, no.1, pp.73-93, 2022 (SCI-Expanded)

V. Implementation of capital deferral algorithm in real distribution systems considering reliability by managing major faults

YOLDAŞ Y., ÖNEN A., Broadwater R., ALAN İ.

ELECTRICAL ENGINEERING, 2019 (SCI-Expanded)

VI. Enhancing smart grid with microgrids: Challenges and opportunities

Yoldas Y., ÖNEN A., Muyeen S. M., Vasilakos A. V., ALAN İ.

RENEWABLE & SUSTAINABLE ENERGY REVIEWS, vol.72, pp.205-214, 2017 (SCI-Expanded)

VII. A novel approach for a sinusoidal output inverter

Celebi M., Alan I.

ELECTRICAL ENGINEERING, vol.92, pp.239-244, 2010 (SCI-Expanded)

VIII. The use of FPGA in field-oriented control of an induction machine

AKIN Ö., Alan I.

TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.18, no.6, pp.943-962, 2010 (SCI-Expanded)

IX. 250W Flyback SMPS design for a big size CTV

GOKSU M., Alan I.

IEEE TRANSACTIONS ON CONSUMER ELECTRONICS, vol.49, no.4, pp.911-916, 2003 (SCI-Expanded)

X. Induction machine based flywheel energy storage system

Alan I., Lipo T.

IEEE TRANSACTIONS ON AEROSPACE AND ELECTRONIC SYSTEMS, vol.39, no.1, pp.151-163, 2003 (SCI-Expanded)

XI. Starter/generator employing resonant-converter-fed induction machine - Part II: Hardware prototype

Alan İ , Lipo T.

IEEE TRANSACTIONS ON AEROSPACE AND ELECTRONIC SYSTEMS, vol.36, no.4, pp.1319-1329, 2000 (SCI-Expanded)

XII. Starter/generator employing resonant-converter-fed induction machine - Part I: Analysis

Alan I, Lipo T.

IEEE TRANSACTIONS ON AEROSPACE AND ELECTRONIC SYSTEMS, vol.36, no.4, pp.1309-1318, 2000 (SCI-Expanded)

XIII. CONTROL OF A POLYPHASE INDUCTION GENERATOR INDUCTION-MOTOR POWER CONVERSION SYSTEM COMPLETELY ISOLATED FROM THE UTILITY

ALAN I., LIPO T.

IEEE TRANSACTIONS ON INDUSTRY APPLICATIONS, vol.30, no.3, pp.636-647, 1994 (SCI-Expanded)

Articles Published in Other Journals

I. FPGA Based Wireless Multi-Node Transceiver and Monitoring System

Alan I., Akin Ö., Sokullu R. I., Başaran I., Büyükkabasakal K.

Books & Book Chapters

I. BÖLÜM 1: "MEKATRONİK TASARIM İLKELERİ VE SÜREÇLERİ

Alan İ., Aksebzeci B. H.

in: MECFUTURE Mechatronic Conciesness for SMEs and Vocational High Schools in Turkey, DoçDr Oğuz Tekelioğlu, Editor, Tunceli Üniversitesi Yayınevi, Tunceli, pp.222-232, 2012

II. Chapter 1: MECHATRONICS DESIGN PRINCIPLES AND PROCESSES

ALAN İ., Aksebzeci B. H.

in: MECFUTURE Mechatronic Conciesness for SMEs and Vocational High Schools in Turkey, Doç.Dr. Oğuz Tekelioğlu, Editor, Tunceli Üniversitesi Press, Tunceli, pp.12-21, 2012

Refereed Congress / Symposium Publications in Proceedings

I. Structural Integrity Analysis of a Two-Pole Synchronous Reluctance Machine with Non-circular Shaft Tekgun D., TEKGÜN B., ALAN İ.

5th IEEE Global Power, Energy and Communication Conference, GPECOM 2023, Cappadocia, Turkey, 14 - 16 June 2023, pp.187-191

II. Effect of the Stator Slot Indents on Fluid Damping Loss in Submersible Pump Applications

Tekgun D., Cosdu M. M., TEKGÜN B., ALAN İ.

4th IEEE Global Power, Energy and Communication Conference (IEEE GPECOM), Cappadocia, Turkey, 14 - 17 June 2022, pp.184-189

III. Investigation of the Effects of Multi-Layer Winding Structures in Two Pole Synchronous Reluctance Machines

Tekgün D., Coşdu M. M., Tekgün B., Alan İ.

2021 3rd Global Power, Energy and Communication Conference (GPECOM), Antalya, Turkey, 5 - 08 October 2021, pp.1-5

IV. A Modular Three-Phase Buck-Boost Motor Drive Topology

Tekgun D., TEKGÜN B., ALAN İ.

6th International Conference on Electric Power and Energy Conversion Systems (EPECS), ELECTR NETWORK, 5 - 06 October 2020, pp.130-135

V. Design and Control of a Single Phase DC/Rectified AC/AC Inverter for low THD Applications TEKGÜN B., Tekgun D., ALAN İ., Badawy M.

7th International Conference on Renewable Energy Research and Applications (ICRERA), Paris, France, 14 - 17 October 2018, pp.424-430

VI. Distribution Automation Effects on Reliability during Major Contingencies

Yoldas Y., ÖNEN A., ALAN İ., Broadwater R. P.

18th IEEE International Conference on Harmonics and Quality of Power (ICHQP), Ljubljana, Slovenia, 13 - 16 May 2018

VII. Cloud Induced PV Impact on Voltage Profiles for Real Microgrids

Kocer M. C., Yoldas Y., GÖREN S., ÖNEN A., ALAN İ., Al-Agtash S., Azzopardi B., Martensen N., Martinez-Ramos J. L., Tzovaras D., et al.

5th International Symposium on Environment-Friendly Energies and Applications (EFEA), Rome, Italy, 24 - 26 September 2018

VIII. A Revolutionary Inverter, A Revolutionary Control

AI.AN İ

Power and Energy Engineering, Munich, Germany, 17 - 18 July 2017

IX. Yüksek Frekans İndüksiyon Kaynak Makinesi Tasarımı

ALAN İ., Efteli Y.

Ulusal Elektrik-Elektronik Konfernası, ELECO'12, Bursa, Turkey, 29 November - 01 December 2012, no.30

X. A COMPLETELY ISOLATED 3-PHASE TO 3-PHASE INDUCTION MOTOR/INDUCTION GENERATOR POWER CONVERSION SYSTEM

ALAN I., LIPO T.

27TH ANNUAL MEETING OF THE INDUSTRY APPLICATIONS SOC OF IEEE, Texas, United States Of America, 4 - 09 October 1992, pp.978-985

XI. The Simulation Analysis and Filtering of Cycloconverters

Tuncay R. N., Alan I., Peter J B.

EPE Conference Proceedings on Power Electronics, Grenoble, France, 22 - 24 September 1987, pp.461-465

Expert Reports

I. Ekim 2023 dönemi ÜAK'a doçentlik başvurusu yapan A**** A**** için eser inceleme raporu Alan I.

Abdullah Gul University, pp.2, Ankara, 2023

II. Ekim 2023 dönemi ÜAK'a doçentlik başvurusu yapan İ***** T******** için eser inceleme raporu Alan I.

Abdullah Gul University, pp.12, Ankara, 2023

III. Mart 2023 dönemi ÜAK'a doçentlik başvurusu yapan B**** A*** için eser inceleme raporu Alan I.

Abdullah Gul University, pp.2, Ankara, 2023

IV. Nötr Topraklama Direnci konusunda Teknolojik Ürün Değerlendirme Tür Onayı Raporu Alan I.

TEYDEB, pp.39, Ankara, 2022

V. E-ATA 12 MT Elektrikli Otobüs konusunda TEKNOLOJİK ÜRÜN DEĞERLENDİRME TÜR. Onayı RAPORU Alan I.

TEYDEB, pp.16, Ankara, 2022

VI. TÜBITAK - 3501 ULUSAL GENÇ ARASTIRMACI KARIYER GELISTIRME PROGRAM BASVURU DEGERLENDIRME RAPORU

Alan I.

Tübitak, pp.5, Ankara, 2022

VII. E-ATA 10 MT Elektrikli Otobüs konusunda Teknolojik Ürün Değerlendirme TÜR Onayı Raporu Alan I.

TEYDEB, pp.22, Ankara, 2022

VIII. Dr. Tayfun Gündoğdu'nun Abdullah Gül Üniversitesi, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, Elektrik Anabilim Dalı için ilan edilen Dr. Öğr. Üyesi kadrosuna atanması için Ayrıntılı Rapor

Alan I.

Abdullah Gül Üniversitesi, pp.5, Kayseri, 2021

IX. ÜNIVERSITE ÖGRENCILERI ARASTIRMA PROJELERI DESTEGI PROGRAMI DEGERLENDIRME RAPORU Alan I.

Tübitak, pp.18, Ankara, 2021

X. Dr. Burcu Gündoğdu'nun Abdullah Gül Üniversitesi, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, Elektrik Anabilim Dalı için ilan edilen Dr. Öğr. Üyesi kadrosuna atanması için Ayrıntılı Rapor

Alan I.

Abdullah Gül Üniversitesi, pp.5, Kayseri, 2021

XI. Dr. Emrah Çetin'in Abdullah Gül Üniversitesi, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, Elektrik Anabilim Dalı için ilan edilen Dr. Öğr. Üyesi kadrosuna atanması için Ayrıntılı Rapor Alan I.

Abdullah Gül Üniversitesi, pp.6, Kayseri, 2021

XII. Doç. Dr. Burak Bal'ın Abdullah Gül Üniversitesi, Mühendislik Fakültesi, Makine Mühendisliği Bölümü, Makine Mühendisliği Anabilim Dalı için ilan edilen Doç. Dr. kadrosuna atanması için Ayrıntılı Rapor Alan I.

Abdullah Gül Üniversitesi, pp.10, Kayseri, 2020

XIII. Dr. Sinan Kesriklioğlu'nun Abdullah Gül Üniversitesi, Mühendislik Fakültesi, Makine Mühendisliği Bölümü, Makine Mühendisliği Anabilim Dalı için ilan edilen Dr. Öğretim Üyesi kadrosuna atanması için Ayrıntılı Rapor

Alan I.

Abdullah Gül Üniversitesi, pp.7, Kayseri, 2020

XIV. Edris Pouresmail in Doç lik kadrosuna atanması için bilirkişi raporu ve görüşü

ALAN İ.

Kayseri, 2016

XV. "Elektrikli Anahat Lokomotifi Tasarımı ve Prototip İmalatı" TUBİTAK KAMAG Proje Hakemlik Raporu Alan I.

Tubitak, pp.19, Ankara, 2016

XVI. Erkan Meşe nin Prof Kadrosuna Atanması için Bilirkişi Görüş ve Raporu

ALAN İ.

İzmir, 2016

XVII. Yrd.Doç. Seral Şahan Özşen'in Doç kadrosuna atanabilmesi için Dosya Üzerinde İnceleme ve Jüri Bilirkişi Görüş ve Raporu

Alan İ.

Selçuk Üniversitesi, pp.5, Konya, 2015

XVIII. Mehmet Çelebi nin Doç Kadrosuna Atanması için Bilirkişi Görüş ve Raporu

ALAN İ.

Erzurum, 2015

XIX. Bünyamin Tamyürek Doçentlik Ünvanı Müracaatı Eser İnceleme Aşaması Bilirkişi Görüş ve Raporu ALAN İ.

Ankara, 2015

XX. Koray Şener Parlak Doçentlik Ünvanı Müracaatı Eser İnceleme Aşaması Bilirkişi Görüş ve Raporu ALAN İ.

Ankara, 2015

XXI. Yrd.Doç.Dr. Koray Şener Parlak'ın ÜAK Doçentlik müracaatı Eser İnceleme Aşaması Dosya Üzeri inceleme Jüri Bilirkişi Görüş ve Raporu

ALAN İ.

Fırat Üniversitesi, pp.4, Elazığ, 2015

XXII. Yrd.Doç.Dr. Bünyamin Tamyürek'in ÜAK Doçentlik Müracaatı Eser İnceleme Aşaması Jüri Bilirkişi Görüş ve Raporu

ALAN İ.

Gazi Üniversitesi, pp.3, Ankara, 2015

XXIII. Yrd.Doç.Dr. Mehmet Çelebi'nin Doç. Kadrosuna atanması için Jüri Bilirkişi Görüş ve Raporu ALAN İ.

Atatürk Üniversitesi, pp.4, Erzurum, 2015

XXIV. Seral Şahan Özşen in Doçe Kadrosuna Atanması için Bilirkişi Görüş ve Raporu

ALAN İ.

Konya, 2015

XXV. Doç.Dr. Salih Güneş'in Prof. Kadrosuna Atanması için Jüri Bilirkişi Görüş ve Raporu ALAN İ.

Selçuk Üniversitesi, pp.4, Konya, 2015

XXVI. Salih Güneş in Prof Kadrosuna Atanması için Bilirkişi Görüş ve Raporu

ALAN İ.

Konya, 2015

XXVII. Yusuf Sönmez in Yard Doç Kadrosuna Atanması için Bilirkişi Görüş ve Raporu

ALAN İ.

Ankara, 2015

XXVIII. Dr. Yusuf Sönmez'in Yard.Doç. Kadrosuna atanması için Jüri Bilirkişi Görüş ve Raporu

ALAN İ.

Gazi Üniversitesi, pp.4, Ankara, 2015

XXIX. Necmi Altın ın Yard Doç Kadrosuna Atamanması için Bilirkişi Görüş ve Raporu

ALAN İ.

Ankara, 2015

XXX. Dr. Necmi Altın'ın Yrd.Doç. Kadrosuna Atanması için Jüri Bilirkişi Görüş ve Raporu

ALAN İ.

Gazi Üniversitesi, pp.4, Ankara, 2015

Supported Projects

Tekgün B., Alan İ., TUBITAK Project, Dalgıç Pompa Uygulamaları İçin Doğrudan Yol Vermeli Senkron Relüktans Motorunun Tasarım Optimizasyonu ve Gerçeklemes, 2021 - 2023

Alan I., Mutlugün E., Usta H., Gencer Akçok E. B., CB Strateji ve Bütçe Başkanlığı (Kalkınma Bakanlığı) Projesi, Merkezi Araştırma Laboratuvarı Projesi, 2014 - 2022

Tekgün B., Alan İ., Boynueğri A. R., Yaşa Y., TUBITAK Project, Alçaltıcı/Yükseltici Dc/Dc/Ac Eviricilerle Yüksek

Performanslı Anahtarlamalı Relüktans Motoru Sürücü Sistemi Tasarımı Ve Gerçeklemesi, 2018 - 2021

Alan I., Önen A., EU Supported Other Project, Design, Development and Demonstration of a future-proof active smart Micro-grid system, 2016 - 2019

ALAN İ., Project Supported by Other Private Institutions, Hall Effektli Uydu İtki Sİstemi Geliştirme Projesi Ön Yapılabilirlik Etüdü. 2014 - 2015

ALAN İ., TUBITAK Project, Otomatik Hızlı Açılır Sarmal Kapı Kontrolör Tasarımı, 2011 - 2012

ALAN İ., EU Supported Other Project, MECFUTURE Mechatronic Consciousness for SMEs and Vocational High Schools in Turkey, 2010 - 2012

Patent

Tekgun D., Tekgün B., Alan I., Narrowed Shaft for two poles synchronous and/or reluctance machines, Patent, CHAPTER H Electricity, The Invention Recourse Number: 2022/007820, Standard Registration, 2022

Alan I., Gokalan R., Maksimum Güç Takip Algoritmalı Güneş Enerjili Pompa Motor Kontrolü, Utility Model, CHAPTER H Electricity, The Invention Registration Number: TR 2015 03327 Y, Standard Registration, 2018

Alan I., A New Inverter and a New Control, Patent, CHAPTER H Electricity, The Invention Recourse Number: 2011/11727, Standard Registration, 2011

Alan I., Yildiz N., Heating Liquids and Mediums by means of Induction Heating, Patent, CHAPTER H Electricity, The Invention Registration Number: 2006/00271, Standard Registration, 2006

Scientific Refereeing

IEEE Transactions on Industrial Applications, Journal Indexed in SCI-E, November 2023

TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Abdullah Gul University, Turkey, November 2023

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TUBITAK Project, 1501 - Industry R & D Projects Support Program, Abdullah Gul University, Turkey, December 2022

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INTERNATIONAL JOURNAL OF APPLIED ELECTROMAGNETICS AND MECHANICS, SCI Journal, June 2022

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TUBITAK Project, 1501 - Industry R & D Projects Support Program, Abdullah Gul University, Turkey, May 2022

TUBITAK Project, 1507 - TÜBİTAK SME R&D Start Support Program, Abdullah Gul University, Turkey, May 2022

TUBITAK Project, 1501 - Industry R & D Projects Support Program, Abdullah Gul University, Turkey, May 2022

TUBITAK Project, 1501 - Industry R & D Projects Support Program, Abdullah Gul University, Turkey, April 2022

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Congress and Symposium Activities

SALTO Toplantisi, Attendee, Kayseri, Turkey, 2015

Boğaziçi Üniversitesi ile Bilgi Yönetim Sistemi Anlaşma Toplantısı, Attendee, Kayseri, Turkey, 2015

ORAN 2. Olağan Kurul Toplantısı, Attendee, Yozgat, Turkey, 2015

AGU İTBF ve LYBF ARAMA Toplantısı, Attendee, Turkey, 2015

HEPLIS Prjesi için RUSYA Uzay Ajansı ile İşbirliği Toplantısı, Attendee, Moskva, Russia, 2015

ÜAK Doçentlik Sözlü Sınav Toplantısı, Attendee, İstanbul, Turkey, 2015

HEPLIS PROJE ÖNERİSİ için SSM ile Toplantı, Attendee, Ankara, Turkey, 2015

MSB, TSK, ASELSAN, ROKETSAN Temsilcileri ile AGU'de İşbirliği Toplantısı, Attendee, Kayseri, Turkey, 2015

HEPLIS Proje Toplantısı, Attendee, Ankara, Turkey, 2015

AGU ile Birlikte Kurulan Üniversite Yöneticilerinin Değerlendirme Toplantısı, Attendee, Konya, Turkey, 2015

HEPLIS Proje Ziyareti, Attendee, Turkey, 2015

Devlet Personel Daire Başkanlığının Üniversitelerin Teşkilat Yapılarının ve İnsan Kaynaklarının Değerlendirilmesi,

Attendee, Ankara, Turkey, 2015

HEPLIS Proje Toplantisi, Attendee, Turkey, 2015

IEEE ICOPS International Confrence on Plasma Systems, Attendee, Antalya, Turkey, 2015

ENVEST KORUBIN Özkan İbrahim SANTEZ Proje Öneri Geliştirme Toplantısı, Attendee, Turkey, 2015

3. Uluslararası İstanbul Akıllı Şebekeler Kongresi ve Fuarı, Attendee, İstanbul, Turkey, 2015

HEPLIS Proje Toplantisi, Attendee, Turkey, 2015

San. Bknlğ. Teknogirişim Sermaye Desteği Değerlendirme Paneli, Attendee, Ankara, Turkey, 2015

ELDER Çalıştayı, Attendee, Ankara, Turkey, 2015

Bilim San. ve Tekn. İl Md.lüğü Motorların Verimli Motorlarla Değişimi İstişare Toplantısı, Attendee, Kayseri, Turkey, 2015

Bilim San. Tekn. Bknlğı TTO Konfernası, Attendee, Turkey, 2015

KAYSERİ 2050 Arama Konferansı Toplantısı, Attendee, Turkey, 2015

HEPLIS Proje Toplantisi, Attendee, Turkey, 2015

AGU Kurumsal İletişim Toplantısı, Attendee, Turkey, 2015

SAP, ORACLE Bilgi Sistemleri Toplantısı, Attendee, Turkey, 2015

Bğaziçi Üniversitesi ile Bilgi Yönetim Sistemi Toplantısı, Attendee, Turkey, 2015

KAYSERİ OSB Yönetim Kurul Üyeleri ile Toplantı, Attendee, Turkey, 2015

AGU WEB Sayfası Tasarımı Toplantısı, Attendee, Turkey, 2015

AGU Club Fest Activities, Attendee, Turkey, 2015

SAP CEO'su ile Üniversite Bilgi Sistemleri Üzerine Toplantı, Attendee, Turkey, 2015

AGU ECE Arama Konferansı Toplantısı, Attendee, Turkey, 2015

AGU TALKS Ali Sabancı, Ayşe Şule Bilgiç, Fatih İşbecer, Attendee, Turkey, 2015

Boğaziçi Üniversitesi - AGÜ Öğrenci Bilgi Sistemi için Toplantı, Attendee, Kayseri, Turkey, 2015

AGU Club Fest Activities, Attendee, Turkey, 2015

ZCM Elazığ Motor Pompa Firması Zİyaret, Attendee, Elazığ, Turkey, 2015

HEPLIS Proje Toplantisi, Attendee, Turkey, 2015

ÜAK 226. Kurul Toplantısı, Attendee, Ankara, Turkey, 2015

Scholarships

1416 Yurt Dışı Doktora Bursu, Ministry of Education, 1986 - 1995

TEV Bursu Başarılı Öğrencilere Eğitim Desteği, University, 1981 - 1983