

## Assoc. Prof. ALİ SAYGIN

### Personal Information

Office Phone: [+90 202 852 9](tel:+902028529)

Email: [asaygin@gazi.edu.tr](mailto:asaygin@gazi.edu.tr)

Web: <https://avesis.gazi.edu.tr/asaygin>

### International Researcher IDs

ScholarID: XYDf09IAAAAJ

ORCID: 0000-0003-1800-9655

Publons / Web Of Science ResearcherID: AAC-7880-2021

ScopusID: 14056923100

Yoksis Researcher ID: 134264

### Education Information

Doctorate, Gazi University, Fen Bilimleri Enstitüsü, Elektrik Eğitimi (Dr), Turkey 1998 - 2004

Postgraduate, Gazi University, Fen Bilimleri Enstitüsü, Elektrik Eğitimi (YI) (Tezli), Turkey 1995 - 1998

Undergraduate, Gazi University, Teknik Eğitim Fakültesi, Elektrik Eğitimi Bölümü, Turkey 1991 - 1995

### Dissertations

Doctorate, Matris konverter ile asenkron motor hızının denetlenmesi, Gazi University, Fen Bilimleri Enstitüsü, Elektrik Eğitimi (Dr), 2004

Postgraduate, Programlanabilir kontrolör (PLC) ile bir seranın sıcaklık ve nem kontrolü, Gazi University, Fen Bilimleri Enstitüsü, Elektrik Eğitimi (YI) (Tezli), 1998

### Research Areas

Electrical Machine Theory and Design, Electric Motor Drivers

### Academic Titles / Tasks

Associate Professor, Gazi University, Teknoloji Fakültesi, Elektrik - Elektronik Mühendisliği, 2019 - Continues

Assistant Professor, Gazi University, Teknoloji Fakültesi, Elektrik - Elektronik Mühendisliği, 2012 - 2018

### Academic and Administrative Experience

Gazi University, Ostim Meslek Yüksekokulu, 2010 - 2013

### Courses

EE488 MEZUNİYET PROJESİ, Undergraduate, 2017 - 2018

EE335 ENDÜSTRİYEL OTOMASYON SİSTEMLERİ LAB., Undergraduate, 2017 - 2018  
EE-415 KONTROL SİSTEMLERİ-II LAB, Undergraduate, 2017 - 2018, 2016 - 2017  
DOĞRUSAL KONTROL SİSTEMLERİ, Postgraduate, 2017 - 2018  
EE-309 KONTROL SİSTEMLERİ I, Undergraduate, 2017 - 2018  
İLERİ ENDÜSTRİYEL OTOMASYON SİST. VE KONT.TEK., Postgraduate, 2017 - 2018  
5071330 DOĞRUSAL KONTROL SİSTEMLERİ, Postgraduate, 2017 - 2018  
EE333 ENDÜSTRİYEL OTOMASYON SİSTEMLERİ, Undergraduate, 2017 - 2018  
EE-413 KONTROL SİSTEMLERİ-II, Undergraduate, 2017 - 2018, 2016 - 2017  
EE-335 ENDÜSTRİYEL OTOMASYON SİSTEMLERİ LAB, Undergraduate, 2017 - 2018, 2016 - 2017  
5251330 İLERİ ENDÜSTRİYEL OTOMASYON SİST. VE KONT.TEK., Postgraduate, 2017 - 2018  
EE-311 KONTROL SİSTEMLERİ-I LAB, Undergraduate, 2017 - 2018  
EE-333 ENDÜSTRİYEL OTOMASYON SİSTEMLERİ, Undergraduate, 2017 - 2018, 2016 - 2017  
5251330-İLERİ ENDÜSTRİYEL OTOMASYON SİST. VE KONT.TEK., Postgraduate, 2016 - 2017  
5071330- DOĞRUSAL KONTROL SİSTEMLERİ, Postgraduate, 2016 - 2017  
EE-334 KONTROL SİSTEMLERİ-I, Undergraduate, 2016 - 2017  
EE-336 KONTROL SİSTEMLERİ-I LAB, Undergraduate, 2016 - 2017

## Advising Theses

SAYGIN A., Ultrasonic Distance Measurement And Verification, Postgraduate, M.ÇALIŞ(Student), 2019  
SAYGIN A., Stabilization Of Fire Direction In Movable Turret Systems, Postgraduate, İ.ERDOĞAN(Student), 2019  
SAYGIN A., Monitoring Of The Change Of Wind Parameters And Estimation Using Artificial Intelligence Algorithms, Doctorate, A.KEREM(Student), 2018  
SAYGIN A., Design And Control Of Decreased Cogging Torque Grid-Connected Three Phase Permanent Magnet Synchronous Motor Driver, Doctorate, A.AKSÖZ(Student), 2018  
SAYGIN A., İlave bacaklı altı serbestlik dereceli paralel manipülatör, Postgraduate, M.JUMA(Student), 2016  
SAYGIN A., The Control Of Servo Motor By The Use Of Labview, Postgraduate, A.MAHDI(Student), 2016  
SAYGIN A., The Servo Motor Position Control By Using Matlab Opc Tools, Postgraduate, Y.BEŞYAPRAK(Student), 2016  
SAYGIN A., The Analysis Of 6 Degrees Of Freedom Parallel Manipulator With A Fixed Limb, Postgraduate, M.Juma(Student), 2016  
SAYGIN A., Two channel pure tone digital odyometer designing, Postgraduate, G.MANAV(Student), 2013  
SAYGIN A., 6 switched 3-level inverter design, Postgraduate, A.KEREM(Student), 2012

## Published journal articles indexed by SCI, SSCI, and AHCI

- I. **A green energy research: forecasting of wind power for a cleaner environment using robust hybrid metaheuristic model**  
Kerem A., SAYGIN A., Rahmani R.  
Environmental Science and Pollution Research, vol.29, no.34, pp.50998-51010, 2022 (SCI-Expanded)
- II. **Scenario-based wind speed estimation using a new hybrid metaheuristic model: Particle swarm optimization and radial movement optimization**  
Kerem A., SAYGIN A.  
MEASUREMENT & CONTROL, vol.52, pp.493-508, 2019 (SCI-Expanded)
- III. **Design of an off-grid model of micro-smart grid connection of an asynchronous motor fed with LUO converter**  
YILMAZ E. N., AKSÖZ A., SAYGIN A.  
ELECTRICAL ENGINEERING, vol.100, no.4, pp.2659-2666, 2018 (SCI-Expanded)
- IV. **Improving Performance of Three-Phase Slim DC-Link Drives Utilizing Virtual Positive Impedance-Based Active Damping Control**

- AKSÖZ A., Song Y., SAYGIN A., Blaabjerg F., Davari P.  
ELECTRONICS, vol.7, no.10, 2018 (SCI-Expanded)
- V. **Position Control of a Turret Using LabVIEW**  
Saygin A., Rashid A. M.  
ACTA PHYSICA POLONICA A, vol.132, no.3, pp.970-973, 2017 (SCI-Expanded)
- VI. **Speed control of an induction motor by 6-switched 3-level inverter**  
SAYGIN A., KEREM A.  
OPEN PHYSICS, vol.15, no.1, pp.1072-1076, 2017 (SCI-Expanded)
- VII. **DSP Implementation of a Variable Speed Drive Using Fuzzy Logic Based Voltage Injection Method for Wound-Rotor Induction Machines**  
Kesler S., Akpınar A. S., Saygin A., Oner Y.  
INTERNATIONAL REVIEW OF ELECTRICAL ENGINEERING-IREE, vol.3, no.6, pp.962-974, 2008 (SCI-Expanded)
- VIII. **DSP based fuzzy-neural speed tracking control of brushless DC motor**  
Gencer C., Saygin A., Coskun I.  
ARTIFICIAL INTELLIGENCE AND NEURAL NETWORKS, vol.3949, pp.107-116, 2006 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Design and Performance Analysis of an Outer-Rotor PMSynRM**  
YENİPİNAR B., SAYGIN A., Sönmez Y., YILMAZ c., OCAK C.  
Gazi Üniversitesi Fen Bilimleri Dergisi Part C: Tasarım ve Teknoloji, vol.12, no.1, pp.148-156, 2024 (Peer-Reviewed Journal)
- II. **Prediction and Modelling of Energy Consumption on Temperature Control for Greenhouses**  
Ozden S., DURSUN M., Aksoz A., SAYGIN A.  
JOURNAL OF POLYTECHNIC-POLITEKNİK DERGISI, vol.22, no.1, pp.213-217, 2019 (ESCI)
- III. **PMSM Control using the 3DSVPWM to Decrease Motor Torque Ripple and Motor Current THD with a New Model**  
SAYGIN A., AKSÖZ A.  
European Journal of Science and Technology, no.15, pp.327-332, 2019 (Peer-Reviewed Journal)
- IV. **Decreasing the Cogging Torque using Virtual Positive Impedance Based Active Damping Control Method for PMSMs**  
AKSÖZ A., SAYGIN A.  
International Journal of Computational and Experimental Science and Engineering (IJCESEN), vol.5, no.1, pp.43-47, 2019 (Peer-Reviewed Journal)
- V. **Aynı Fiziksel ve Elektromanyetik Parametreler Altında EASMSM ve ORSMSM'un Vuruntu Torkuna göre Karşılaştırılması**  
SAYGIN A., AKSÖZ A.  
Gazi Üniversitesi Fen Bilimleri Dergisi Part C: Tasarım ve Teknoloji, vol.6, pp.659-667, 2018 (Peer-Reviewed Journal)
- VI. **AG Dağıtım Şebekelerinde Kaçak Kullanımın Tespiti ve Otomatik Faturalama İçin Örnek Laboratuvar Çalışması**  
ÜSTÜNŞOY F., SAYAN H. H., SAYGIN A.  
Düzce Üniversitesi Bilim ve Teknoloji Dergisi, vol.6, no.4, pp.1178-1189, 2018 (Peer-Reviewed Journal)
- VII. **6-anahtarlı 3-seviyeli eviricide uzay vektör darbe genişlik modülasyon tekniğinin uygulaması**  
SAYGIN A., KEREM A.  
Düzce Üniversitesi Bilim ve Teknoloji Dergisi. (TÜBİTAK TR Dizin), vol.5, no.2, pp.565-581, 2017 (Peer-Reviewed Journal)
- VIII. **Wind power forecasting: a case study in terrain using artificial intelligence**  
SAYGIN A., KEREM A.  
International Research Journal of Engineering and Technology (IRJET), vol.4, no.6, pp.301-307, 2017 (Peer-

Reviewed Journal)

- IX. **EMI filter Physical Estimation For Different Frequency Values**  
AKSÖZ A., SAYGIN A.  
International Journal Of Industrial Electronics and Electrical Engineering, vol.4, no.5, pp.17-20, 2016 (Peer-Reviewed Journal)
- X. **Design of 6 switched 3-level inverter with RL load**  
SAYGIN A., KEREM A.  
PAMUKKALE UNIVERSITY JOURNAL OF ENGINEERING SCIENCES-PAMUKKALE UNIVERSITESI MUHENDISLIK BILIMLERI DERGISI, vol.22, no.5, pp.349-352, 2016 (ESCI)
- XI. **OPTIMUM ROTOR DESIGN OF SMALL PM BLDC MOTOR BASED ON HIGH EFFICIENCY CRITERIA**  
Saygin A., Ocak C., Dalcalı A., Çelik E.  
ARPN Journal of Engineering and Applied Sciences, vol.10, no.19, pp.9127-9132, 2015 (Scopus)
- XII. **Dynamics Parameter Graphs of Passenger Planes**  
AKSÖZ A., DURSUN M., SAYGIN A.  
International Journal of Aerospace System Engineering, vol.2, no.1, pp.31-37, 2015 (Peer-Reviewed Journal)
- XIII. **Dynamic Parameter Graphs of Passenger Planes**  
AKSÖZ A., DURSUN M., SAYGIN A.  
International Journal of Aerospace System Engineering, vol.2, no.1, pp.31-37, 2015 (Peer-Reviewed Journal)
- XIV. **Android Mobile Device Based Automation System**  
AKSÖZ A., SAYGIN A.  
International Journal of Electrical, Electronics and Data Communication, vol.3, no.3, pp.5-11, 2015 (Peer-Reviewed Journal)
- XV. **A New Design of Single Side Brushless Direct Current Linear Motor**  
DURSUN M., SAYGIN A., ÖZDEN S., FENERCİOĞLU A.  
Journal of Automation and Control Engineering, vol.3, no.4, pp.336-342, 2015 (Peer-Reviewed Journal)
- XVI. **A Design and Automation with PLC of a Solar System and Test Results**  
DURSUN M., SAYGIN A., ÖZDEN S.  
International Journal of Electrical Energy, vol.2, no.3, pp.200-205, 2014 (Peer-Reviewed Journal)
- XVII. **Influence Of Pole Arc Offset On The Field And Output Parameters Of Brushless Dc Motors**  
SAYGIN A., OCAK C., DALCALI A., GÜRDAL O., alantar s., tarhan y.  
International Journal of Advancements in Electronics and Electrical Engineering – IJAE, vol.3, no.1, pp.47-51, 2014 (Peer-Reviewed Journal)
- XVIII. **An Easy Calculation Method for the Electricity Production by Solar Panels and its Applicability in Gaziantep**  
YILMAZ E. N., SAYGIN A., Besnili M.  
Journal of Applied Sciences, vol.9, no.21, pp.3927-3931, 2009 (Peer-Reviewed Journal)
- XIX. **BİLEZİKLİ ASENKRON MAKİNELERDE ANLIK YÜKSEK MOMENT VE HIZ DENETİMİ İÇİN ROTOR DEVRESİNE BULANIK MANTIK TABANLI GÜÇ ENJEKSİYONU**  
KESLER S., AKPINAR A. S., SAYGIN A.  
PAMUKKALE UNIVERSITY JOURNAL OF ENGINEERING SCIENCES-PAMUKKALE UNIVERSITESI MUHENDISLIK BILIMLERI DERGISI, vol.15, no.1, pp.13-23, 2009 (Peer-Reviewed Journal)
- XX. **Matris Konverter Uygulaması**  
COŞKUN İ., SAYGIN A., DURSUN M.  
JOURNAL OF POLYTECHNIC-POLITEKNİK DERGISI, vol.11, no.3, pp.193-198, 2008 (Peer-Reviewed Journal)
- XXI. **GÜNEŞ ENERJİSİ İLE ÇALIŞAN BİR SULAMA SİSTEMİ İÇİN BOOST KONVERTÖRLÜ ANAHTARLAMALI RELÜKTANS MOTOR SÜRÜCÜSÜ**  
DURSUN M., SAYGIN A.  
Erciyes Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.22, no.1, pp.57-65, 2006 (Peer-Reviewed Journal)
- XXII. **BİR ASANSÖR TAHRİK SİSTEMİ İÇİN BULANIK MANTIKDENETİMLİ ANAHTARLAMALI RELÜKTANS MOTOR SÜRÜCÜSÜ TASARIMI**  
DURSUN M., SAYGIN A.

- PAMUKKALE UNIVERSITY JOURNAL OF ENGINEERING SCIENCES-PAMUKKALE UNIVERSİTESİ MUHENDİSLİK BİLİMLERİ DERGİSİ, vol.12, no.2, pp.151-160, 2006 (Peer-Reviewed Journal)
- XXIII. **A SWITCHED RELUCTANCE MOTOR DRIVER WITH BOOST CONVERTER DESIGNED FOR A PHOTOVOLTAIC ARRAY IRRIGATION SYSTEM**  
DURSUN M., SAYGIN A.  
Erciyes Üniversitesi Fen Bilimleri Enstitüsü Fen Bilimleri Dergisi, vol.22, no.1, pp.57-65, 2006 (Peer-Reviewed Journal)
- XXIV. **Fuzzy logic controlled switched reluctance motor driver designing for a lift system**  
DURSUN M., SAYGIN A.  
PAMUKKALE UNIVERSITY JOURNAL OF ENGINEERING SCIENCES-PAMUKKALE UNIVERSİTESİ MUHENDİSLİK BİLİMLERİ DERGİSİ, vol.12, no.2, pp.151-160, 2006 (Peer-Reviewed Journal)
- XXV. **SPEED CONTROL OF INDUCTION MOTOR BY MATRIX CONVERTER**  
COŞKUN İ., SAYGIN A.  
Gazi Üniversitesi Fen Bilimleri Dergisi, vol.17, no.2, pp.61-74, 2004 (Peer-Reviewed Journal)
- XXVI. **MATRİS ÇEVİRİCİ KONTROL TEKNİKLERİNİN BİLGİSAYARORTAMINDAKİ BENZETİMİ**  
COŞKUN İ., SAYGIN A.  
Sakarya Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.7, no.2, pp.159-166, 2003 (Peer-Reviewed Journal)
- XXVII. **Programlanabilir Lojik Kontrolör (PLC) İle Serada Sıcaklık ve Nem Kontrolü**  
COŞKUN İ., SAYGIN A.  
Gazi Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.14, no.4, pp.1235-1250, 2001 (Peer-Reviewed Journal)

## **Books & Book Chapters**

- I. **Kumanda Teknikleri ve PLC**  
çoşkun i., DURSUN M., SAYGIN A.  
Atatürk Kız Teknik Anadolu Kız Meslek ve Kız Meslek Lisesi Matba, Ankara, 2008

## **Refereed Congress / Symposium Publications in Proceedings**

- I. **Wind power forecasting using a new and robust hybrid metaheuristic approach: a case study of multiple locations**  
KEREM A., SAYGIN A., RAHMANİ R.  
19th International Symposium on Electromagnetic Fields in Mechatronics, Electrical and Electronic Engineering (ISEF 2019), Nancy/ FRANCE. IEEE, 29 - 31 August 2019
- II. **Collecting the Data Required to Develop a Personalized Speech Recognition System to be used in the Internet of Things Ecosystem**  
SAYGIN A., POLAT H., AKSÖZ A., OYUCU S.  
INTERNATIONAL CONFERENCE ON ENGINEERING AND NATURAL SCIENCES, Prague, Czech Republic, 12 - 16 June 2019
- III. **Collecting the Data Required to Develop a Personalized Speech Recognition System to be used in the Internet of Things**  
SAYGIN A., POLAT H., AKSÖZ A., OYUCU S.  
5th International Conference on Engineering and Natural Sciences (ICENS2019), Prague, Czech Republic, 12 - 16 June 2019
- IV. **HAREKETLİ TARET SİSTEMLERİNDE ATIŞ İSTİKAMETİ STABİLİZASYONU**  
SAYGIN A., ERDOĞAN İ.  
IMASCON 2019, Kocaeli, Turkey, 26 - 28 April 2019, vol.2, pp.1601-1607
- V. **PMSM Control using the 3DSVPWM to Decrease Motor Torque Ripple and Motor Current THD with a New Model**

SAYGIN A., AKSÖZ A.

ICCESEN-2018, 12 - 16 October 2018

- VI. **Decreasing the Cogging Torque using Virtual Positive Impedance Based Active Damping Control Method for PMSMs**  
AKSÖZ A., SAYGIN A.  
ICCESEN-2018, 12 - 16 October 2018
- VII. **A New Comparison Study in Smart Grid: The Most Suitable Database for Wind Turbine Data**  
AKSÖZ A., OYUCU S., SAYGIN A., POLAT H.  
International Conference on Information System, Computer Engineering and Applications ( ICISCEA 2018 ),  
Munich, Germany, 7 - 08 May 2018
- VIII. **Data Storage in Smart Grid Systems**  
YILMAZ E. N., POLAT H., OYUCU S., AKSÖZ A., SAYGIN A.  
6th International Istanbul Smart Grids and Cities Congress and Fair (ICSG), İstanbul, Turkey, 25 - 26 April 2018,  
pp.110-113
- IX. **Speed control of induction motor by 6-switched 3-level inverter**  
SAYGIN A., KEREM A.  
18th International Symposium on Electromagnetic Fields in Mechatronics, Electrical and Electronic Engineering  
(ISEF 2017) Lodz/ POLAND. IEEE, Lodz, Poland, 14 - 16 September 2017
- X. **6-Switched 3-Level Inverter for PV Power Quality Enhancement in Smart Grid Application**  
SAYGIN A., Kerem A., AKSÖZ A.  
4th International Conference on Electrical and Electronic Engineering (ICEEE), Ankara, Turkey, 8 - 10 April 2017,  
pp.108-112
- XI. **Design Optimization for Minimizing Cogging Torque in Axial Flux Permanent Magnet Machines**  
SAYGIN A., AKSÖZ A.  
International Conference on Optimization of Electrical and Electronic Equipment (OPTIM) / Intl Aegean Conference  
on Electrical Machines and Power Electronics (ACEMP), Brasov, Romania, 25 - 27 May 2017, pp.324-329
- XII. **Smart Grid Integration of Micro Hybrid Power System Using 6-Switched 3-Level Inverter**  
Kerem A., AKSÖZ A., SAYGIN A., YILMAZ E. N.  
5th International Istanbul Smart Grid and Cities Congress and Fair (ICSG), İstanbul, Turkey, 19 - 21 April 2017,  
pp.161-165
- XIII. **Fuzzy logic based control of a loaded asynchronous motor using a 6-switched 3-level inverter**  
SAYGIN A., KEREM A.  
18th International Conference on Computational Problems of Electrical Engineering (CPEE), Kutna Hora, Czech  
Republic, 11 - 13 September 2017
- XIV. **Energy Consumption Monitoring with Smart Lamp Socket for Smart Grid via M2M Platform**  
OYUCU S., POLAT H., AKSÖZ A., SAYGIN A., YILMAZ E. N.  
5th International Istanbul Smart Grid and Cities Congress and Fair (ICSG), İstanbul, Turkey, 19 - 21 April 2017,  
pp.80-84
- XV. **An Application of Using Reaction Wheel for Automobile**  
AKSÖZ A., SAYGIN A.  
International Mediterranean Science and Engineering Congress, Adana, Turkey, 26 - 28 October 2016, pp.709
- XVI. **A study of Decreasing Detonation for Reaction Wheels**  
AKSÖZ A., SAYGIN A.  
International Mediterranean Science and Engineering Congress, Adana, Turkey, 26 - 28 October 2016, pp.708
- XVII. **Position Control of Turret Using LABVIEW**  
SAYGIN A., RASHID A. M.  
3th International Conference on Computational and Experimental Science and Engineering (ICCESEN 2016),  
Antalya, Turkey, 19 - 24 October 2016, pp.245
- XVIII. **Performance Analysis of Time Series Forecasting Models for Short Term Wind Speed Prediction**  
KEREM A., KIRBAŞ İ., SAYGIN A.  
International Conference on Engineering and Natural Sciences (ICENS 2016), SARAYBOSNA, Bosnia And

Herzegovina, 24 - 28 May 2016, pp.2597-2604

- XIX. POSITION CONTROL OF SERVO MOTOR BY USE OF MATLAB OPC TOOLS WITH PLC**  
SAYGIN A., BEŞYAPRAK Y.  
International Conference on Engineering and Natural Sciences (ICENS 2016), SARAYBOSNA, Bosnia And Herzegovina, 24 - 28 May 2016, pp.146-151
- XX. EMI FILTER VOLUME AND WEIGHT ESTIMATION FOR DIFFERENT FREQUENCY VALUES**  
AKSÖZ A., SAYGIN A.  
Proceedings of 32nd ISERD International Conference, Prague, Czech Republic, PRAGUE, Czech Republic, 05 March 2016, pp.1-4
- XXI. A Different Model of WECS Connected to Smart Grid Through Matrix Converter**  
SAYGIN A., AKSÖZ A., YILMAZ E. N.  
4th International Istanbul Smart Grid Congress and Fair (ICSG), İstanbul, Turkey, 20 - 21 April 2016, pp.117-121
- XXII. Optimum rotor design of small PM BLDC motor based on high efficiency criteria**  
SAYGIN A., OCAK C., DALCALI A., ÇELİK E.  
International Conference On Electrical And Electronic Engineering (Ic3e2015), Malekka, Malaysia, 10 - 11 August 2015, vol.10, pp.9128-9132
- XXIII. Comparative Study by PID and Fuzzy Logic Control Methods For Flighting Parameters**  
DURSUN M., AKSÖZ A., SAYGIN A.  
APCAT 2015, jeju, South Korea, 20 - 23 May 2015, pp.1-11
- XXIV. A COMPARATIVE STUDY BY PID AND FUZZY LOGIC CONTROL METHODS FOR FLIGHT PARAMETERS**  
**Keynote Speech**  
DURSUN M., AKSÖZ A., SAYGIN A.  
The 8th Asian-Pacific Conference on Aerospace Technology and Science Jeju Island, Korea, 20 - 23 May 2015
- XXV. DYNAMICS PARAMETER GRAPHS OF PASSENGER PLANES**  
AKSÖZ A., DURSUN M., SAYGIN A.  
The 8th Asian-Pacific Conference on Aerospace Technology and Science, Jeju Island, South Korea, 20 - 23 May 2015
- XXVI. A HPA Application for Greenhouse Temperature Control System Invited Paper**  
DURSUN M., AKSÖZ A., SAYGIN A.  
Advances in Environmental and Agricultural Science (ICESEEI), UAE, 22 - 24 February 2015
- XXVII. A HPA Application for Greenhouse Temperature Control System**  
DURSUN M., AKSÖZ A., SAYGIN A.  
ENERGY SYSTEMS, ENVIRONMENT, ENTREPRENEURSHIP and INNOVATION (ICESEEI '15), Dubai, United Arab Emirates, 22 - 24 February 2015, pp.77-80
- XXVIII. ANDROID MOBILE DEVICES BASED AUTOMATION SYSTEM**  
AKSÖZ A., SAYGIN A.  
Proceedings of Eighth The IIER-Science Plus International Conference, Dubai, UAE, Dubai, United Arab Emirates, 25 - 26 January 2015, pp.19-25
- XXIX. A Design and Automation with PLC of A Solar System and Test Results**  
DURSUN M., ÖZDEN S., SAYGIN A.  
ICEEE-2014 International Conference on Electrical and Electronics Engineering, Antalya, Turkey, 21 - 23 April 2014, pp.1-6
- XXX. A New Design of Single Side Brushless Direct Current Linear Motor**  
DURSUN M., SAYGIN A., ÖZDEN S., FENERCİOĞLU A.  
ICEEE-2014 International Conference on Electrical and Electronics Engineering, Antalya, Turkey, 21 - 23 April 2014, pp.1-7
- XXXI. INFLUENCE OF POLE ARC OFFSET ON THE FIELD AND OUTPUT PARAMETERS OF BRUSHLESS DC MOTORS**  
SAYGIN A., OCAK C., DALCALI A., GÜRDAL O., ALANTAR S., TARHAN Y.  
FTEE-2013 Proc. of the Intl. Conf. on Future Trends in Electronics and Electrical Engineering, Bangkok, Thailand, 13 - 14 July 2013, pp.16-20

- XXXII. **Silindirik Taşlama İçin PLC Kontrollü Taş Bileme Aparatının Tasarımı ve İmalatı.**  
ÜSTÜN H., SAYGIN A., GÜLLÜ A.  
3.Ulusal Talahlı İmalat Sempozyumu, Ankara, Turkey, 4 - 05 October 2012, pp.378-384
- XXXIII. **Fuzzy Logic Controlled Matrix Converter Based Speed Control of Induction Motor**  
SAYGIN A., DURSUN M., COŞKUN İ.  
FUZZYSS-2009 International Fuzzy Systems Symposium, Ankara, Turkey, 1 - 02 October 2009, pp.314-318
- XXXIV. **Su İçeri Koşu Bandı Tasarım ve İmalatı**  
ULAŞ H. B., SAYGIN A.  
IATS 2009- 5th International Advanced Technologies Symposium, Karabük, Turkey, 13 - 15 May 2009, pp.2281-2284
- XXXV. **Çift Beslemeli Asenkron Motorların Rotor Sargılarına Bulanık Mantık Tabanlı Gerilim Enjeksiyonu ve Hız Denetimi**  
KESLER S., AKPINAR S., SAYGIN A.  
BİLİMDE MODERN YÖNTEMLER SEMPOZYUMU- BMYS, Eskişehir, Turkey, 15 - 17 October 2008, pp.255-263
- XXXVI. **Dspace 1103 Kartı kullanılarak Matris Konverter ile Asenkron Motor Hızının Denetlenmesi**  
COŞKUN İ., DURSUN M., SAYGIN A.  
2007 FIGES Conference for Computer Aided Engineering and System Modeling, Antalya, Turkey, 12 - 14 November 2007, pp.1-9
- XXXVII. **Teknolojik Gelişmelere Dayalı Elektrik Tesisatçılığı Analizi ve Meslek Standardı Üzerine Bir Çalışma**  
GÜVENÇ U., SAYGIN A., BATTALOĞLU H., YILMAZ C., DURSUN M.  
UMES-2007 Ulusal Teknik Eğitim, Mühendislik ve Eğitim Bilimleri Genç Araştırmacılar Sempozyumu, Kocaeli, Turkey, 20 - 22 June 2007, pp.280-283
- XXXVIII. **Bobinajcı Meslek Standardı Geliştirilmesi**  
BİROĞUL S., SAYGIN A., BATTALOĞLU H., YILMAZ C., DURSUN M.  
UMES-2007 Ulusal Teknik Eğitim, Mühendislik ve Eğitim Bilimleri Genç Araştırmacılar Sempozyumu, Kocaeli, Turkey, 20 - 22 June 2007, pp.268-271
- XXXIX. **Elektrik Pano Montörü Meslek Standardı Geliştirilmesi**  
BİROĞUL S., DURSUN M., BATTALOĞLU H., YILMAZ C., SAYGIN A.  
UMES-2007 Ulusal Teknik Eğitim, Mühendislik ve Eğitim Bilimleri Genç Araştırmacılar Sempozyumu, Kocaeli, Turkey, 20 - 22 June 2007, pp.272-275
- XL. **Güvenlik Sistemleri Meslek Standardı Geliştirme Üzerine Bir Çalışma**  
SÖNMEZ Y., YILMAZ C., BATTALOĞLU H., DURSUN M., SAYGIN A.  
UMES-2007 Ulusal Teknik Eğitim, Mühendislik ve Eğitim Bilimleri Genç Araştırmacılar Sempozyumu, Kocaeli, Turkey, 20 - 22 June 2007, pp.284-287
- XLI. **Endüstriyel Elektronik Tesis ve Bakım Onarım Elemanı Meslek Standardı Geliştirilmesi**  
SÖNMEZ Y., BATTALOĞLU H., DURSUN M., YILMAZ C., SAYGIN A.  
UMES-2007 Ulusal Teknik Eğitim, Mühendislik ve Eğitim Bilimleri Genç Araştırmacılar Sempozyumu, Kocaeli, Turkey, 20 - 22 June 2007, pp.288-291
- XLII. **Eğitim Amaçlı Bir Asansör Sisteminin Benzetimi**  
DURSUN M., SAYGIN A.  
IETC-2006 6th INTERNATIONAL EDUCATIONAL TECHNOLOGY CONFERENCE, Magusa, Cyprus (Kktc), 19 - 21 April 2006, pp.576-586
- XLIII. **Bulanık Mantık Denetimli Anahtarlamalı Relüktans Motor ile Asansör Tahriki**  
DURSUN M., SAYGIN A.  
BMYS-2005 Bilimde Modern Yöntemler Sempozyumu, Kocaeli, Turkey, 16 - 18 November 2005, pp.579-586
- XLIV. **DSP Based Fuzzy-Neural Speed Tracking Control of Brushless DCMotor**  
GENÇER Ç., SAYGIN A., COŞKUN İ.  
TAINN-2005 14th Turkish Symposium Artificial Intelligence and Neural Networks, İzmir, Turkey, 16 - 17 June 2005, pp.1-9
- XLV. **GÜNEŞ ENERJİLİ BİR SULAMA SİSTEMİNDE BOOST KONVERTERDEN BESLENEN ARM SÜRÜCÜ SİSTEMİNİN ANALİZİ**



DURSUN M., SAYGIN A.

3rd Renewable Energy Sources Symposium, Mersin, Mersin, Turkey, 01 January 2005

**XLVI. System Analysis of switched reluctance motor driver with boost converter for a photovoltaic array irrigation system**

DURSUN M., SAYGIN A.

3rd Renewable Energy Sources Symposium, 1 - 02 January 2005

**XLVII. Termik Santral Çevresinde Oluşan Radyasyonun PLC ile denetimi**

COŞKUN İ., GENÇER Ç., SAYGIN A.

3. Uluslararası İleri Teknolojiler Sempozyumu, Ankara, Turkey, 18 - 20 August 2003, pp.41-48

**XLVIII. Bulanık Mantık Denetleyicili Matris Konverter İle Asenkron Motor Hız Kontrolü**

COŞKUN İ., SAYGIN A., GENÇER Ç.

International XII. Turkish Symposium on Artificial Intelligence and Neural Networks TAINN-2003, Çanakkale, Turkey, 2 - 04 July 2003, pp.33-38

**XLIX. PLC CİHAZI İLE SERADA SICAKLIK VE NEM KONTROLÜNÜN PID DENETLEYİCİYLE GERÇEKLEŞTİRİLMESİ**

TAPLAMACIOĞLU M. C., SAYGIN A., DEĞİRMENÇİ E., TEZCAN C.

ELECO-2002 Elektrik Elektronik Bilgisayar Mühendisliği Sempozyumu, Bursa, Turkey, 18 - 22 December 2002, pp.1-5

## Supported Projects

KORKUT İ., ŞEKER U., SAYGIN A., TUBİTAK Project, TARIMSAL MEKANİZASYONDA KULLANILAN GERGİ BORULARININ ÜRETİM OTOMASYONUNA YÖNELİK MAKİNE TASARIMI VE İMALATI, 2013 - 2015

TURGUT Y., ELMAS Ç., SAYGIN A., Industrial Thesis Project, Yüksek Verimli Rotatif Krayojenik Soğutucu Motoru Geliştirilmesi, 2012 - 2014

SAYGIN A., DURSUN M., Project Supported by Higher Education Institutions, Hibrid (PV-Rüzgar) Enerji Üretim Sistemi ve Kontrolü, 2011 - 2014

SAYGIN A., DURSUN M., Project Supported by Higher Education Institutions, Güneş Enerji Sisteminin PLC ile Otomasyonu, 2011 - 2014

DURSUN M., SAYGIN A., Project Supported by Higher Education Institutions, Lineer Fırçasız Doğru Akım Motor Tasarımı, 2011 - 2014

GÜRÜN H., SAYGIN A., Industrial Thesis Project, Plastik Enjeksiyon Tezgahlarının Sürücü Sistemi Otomasyonu, 2011 - 2013

SAYGIN A., DURSUN M., Project Supported by Higher Education Institutions, Mekatronikte PLC Uygulamaları, 2011 - 2012

SAYGIN A., GÜLLÜ A., Project Supported by Higher Education Institutions, Silindirik taşlamada PLC kontrollü taş bileme aparatının tasarımı, imalatı ve değişik taşlar üzerinde test edilmesi, 2011 - 2012

SAYGIN A., Project Supported by Higher Education Institutions, 6 Anahtarlı 3 Seviyeli Evirici Tasarımı, 2010 - 2012

SAYGIN A., Project Supported by Higher Education Institutions, Odyometre tasarımı, 2010 - 2012

SAYGIN A., DURSUN M., Industrial Thesis Project, Lineer Anahtarlama Relüktans Motor Tasarımı, 2010 - 2011

SAYGIN A., Project Supported by Higher Education Institutions, Giriş Güç Katsayı Kontrollü Frekans Konverter Tasarımı, 2005 - 2008

DURSUN M., SAYGIN A., Project Supported by Higher Education Institutions, Bulanık Mantık Denetimli ve Anahtarlama Relüktans Motorlu Bir Asansör Sistemi Tasarımı, 2003 - 2005

SAYGIN A., Project Supported by Higher Education Institutions, Asenkron Motor Hız kontrolünün Matris Konverter İle Denetlenmesi, 2002 - 2004

## Patent

GÜLLÜ A., SAYGIN A., Dört eksenli PLC kontrollü taş bileme ve profil oluşturma aparatı, Patent, CHAPTER F Mechanical

engineering; Lighting; Heating; Weaponry; Destroyed Materials, 2010

## **Metrics**

Publication: 85

Citation (WoS): 51

Citation (Scopus): 70

H-Index (WoS): 5

H-Index (Scopus): 6

## **Non Academic Experience**

Milli Eğitim Bakanlığı