

Prof. SAADETTİN AKSOY



Personal Information

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No:4, 34854, 34854 Maltepe/İSTANBUL



International Researcher IDs

ScholarID: YicbYW8AAAAJ

ORCID: 0009-0007-9312-6866

Publons / Web Of Science ResearcherID: EMI-6966-2022

ScopusID: 57197495130

Yoksis Researcher ID: 28682

Education Information

Doctorate, Karadeniz Technical University, Mühendislik Fakültesi, Elektrik-Elektronik,
Turkey 1989 - 1994

Postgraduate, Karadeniz Technical University, Mühendislik Fakültesi, Elektrik-
Elektronik, Turkey 1985 - 1988

Undergraduate, Karadeniz Technical University, Mühendislik Fakültesi, Elektrik-
Elektronik, Turkey 1981 - 1985

Foreign Languages

English, B2 Upper Intermediate

Research Areas

Engineering and Technology

Academic Titles / Tasks

Professor, Istanbul Commerce University, Mühendislik Fakültesi, Bilgisayar Mühendisliği Bölümü, 2023 - Continues

Professor, Istanbul Gelisim University, Faculty Of Engineering And Architecture, Electrical And Electronics Engineering,
2019 - 2023

Professor, Batman University, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği, 2018 - 2019

Professor, Siirt University, Mühendislik Fakültesi, Elektrik-Elektronik, 2014 - 2018

Professor, Sakarya University, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği, 2011 - 2014

Associate Professor, Sakarya University, Mühendislik, Elektrik-Elektronik Mühendisliği, 2001 - 2011

Assistant Professor, Sakarya University, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği, 1998 - 2001

Assistant Professor, Karadeniz Technical University, Mühendislik Fakültesi, Elektrik-Elektronik, 1995 - 1998

Research Assistant, Karadeniz Technical University, Mühendislik Fakültesi, Elektrik-Elektronik, 1986 - 1995

Academic and Administrative Experience

Dean, Istanbul Gelisim University, Faculty Of Engineering And Architecture, Electrical And Electronics Engineering, 2019 - 2021

Batman University, 2017 - 2019

Siirt University, 2015 - 2017

Siirt University, 2014 - 2017

Siirt University, 2014 - 2017

Sakarya University, 1998 - 2014

Courses

Kontrol Sistem Tasarımı, Undergraduate, 2023 - 2024

Bitirme Projesi, Undergraduate, 2023 - 2024

Dinamik Sistemlerin Kararlılığı, Postgraduate, 2023 - 2024

Kariyer Planlama, Undergraduate, 2023 - 2024

Elektronik Lab. Şube : 4, Undergraduate, 2023 - 2024

Kontrol Sistemleri, Undergraduate, 2023 - 2024

Elektronik Lab. Şube:3, Undergraduate, 2023 - 2024

Elektronik Lab. Şube:1, Undergraduate, 2023 - 2024

Elektronik Lab. Şube :2, Undergraduate, 2023 - 2024

Sistem Teorisi, Postgraduate, 2023 - 2024

LİNEER SİSTEM TEORİSİ I, Postgraduate, 2023 - 2024

Elektronik Devreler, Undergraduate, 2023 - 2024, 2022 - 2023

Programlanabilir Lojik Denetleyici (PLC) sistemleri, Postgraduate, 2023 - 2024

Mantıksal Tasarımı Lab. Şube :1, Undergraduate, 2023 - 2024

DİJİTAL SİSTEMLER II, Undergraduate, 2023 - 2024

Mantıksal Tasarım Lab. Şube : 3, Undergraduate, 2023 - 2024

Mantıksal Tasarım Lab. Şube : 2, Undergraduate, 2023 - 2024

DİJİTAL SİSTEMLER II LAB, Undergraduate, 2023 - 2024

Tasarım Projesi, Undergraduate, 2021 - 2022

Bilişim Tasarım Projesi, Undergraduate, 2020 - 2021

Advising Theses

SAADETTİN A., Güç transformatörlerinin güvenilirliğinin artırılması, Postgraduate, I.ABDULLAYEV(Student), 2021

SAADETTİN A., Elektromanyetik dalgaların çevre ve yaşayan organizmalar üzerindeki etkisinin araştırılması, Postgraduate, A.HUSEYNOV(Student), 2021

SAADETTİN A., Transformatörlerin güneş enerjisi destekli kurutulması, Postgraduate, O.PASHAYEV(Student), 2021

SAADETTİN A., Robotlar ve uygulamaları, Postgraduate, E.OZAN(Student), 2020

SAADETTİN A., Petrol kuyuları izleme sistemi, Postgraduate, M.EŞREF(Student), 2020

SAADETTİN A., Arkadan su soğutma ile fotovoltaik panellerin verimliliğinin artırılması, Postgraduate, Ö.KIZILKAN(Student), 2017

SAADETTİN A., Siirt yöresi için tek eksenli güneş takip sistemli güneş panellerinin enerji verimliliğinin incelenmesi,

Postgraduate, N.BÜKÜN(Student), 2017
SAADETTİN A., Fırçalı DC motorlarda hız ve kaskat konum kontrolü, Postgraduate, M.BOLAT(Student), 2016
SAADETTİN A., Su soğutma ile fotovoltaik panellerin verimliliğinin artırılması, Postgraduate, U.ALTINIŞIK(Student), 2016
SAADETTİN A., İndüksiyon motorun sinirsel kayma kipli gözlemleyiciler ile parametre ve durum kestirimi, Doctorate, H.KIZMAZ(Student), 2015
SAADETTİN A., Gerilim kararlılığı iyileştiricilerinin akıllı algoritma tabanlı kayan kipli kontrolü, Doctorate, E.KÖSE(Student), 2012
SAADETTİN A., İndüksiyon motorlarda yinelemeli YSA tabanlı durum kestirimi, Doctorate, A.MÜHÜRÇÜ(Student), 2011
SAADETTİN A., Block-pulse fonksiyonlarını kullanarak doğrusal zamanla değişmeyen sistemlerin durum değişkenlerinin kestirimi, Postgraduate, S.ÖNEN(Student), 2010
SAADETTİN A., Kapalı çevrimli gözlemleyiciler ile asenkron motorlarda durum değişkenlerinin kestirimi, Postgraduate, Ş.BİRBAŞ(Student), 2009
SAADETTİN A., Block-pulse fonksiyonları kullanılarak endüksiyon motorların durum değişkenlerinin kestirimi, Postgraduate, A.EGE(Student), 2009
SAADETTİN A., Asılı sarkacın kayma kipli kontrolü, Postgraduate, H.KIZMAZ(Student), 2009
SAADETTİN A., Görüntü denetimli üç eksen kartezyen robot, Postgraduate, O.AKPINAR(Student), 2007
SAADETTİN A., Asılı sarkaç sisteminde konum kontrolü, Postgraduate, A.KÜÇÜKER(Student), 2007
SAADETTİN A., Mikroişlemci tabanlı bir güvenlik kontrol sistemi, Postgraduate, N.İRİS(Student), 2004
SAADETTİN A., Durum uzayında denetleyici ve gözlemleyici tasarımı, Postgraduate, F.KARA(Student), 2004
SAADETTİN A., MATLAB/SIMULINK ortamında asenkron motor simülasyonu, Postgraduate, M.ŞİMŞEK(Student), 2004
SAADETTİN A., Duman kontrol sistemleri, Postgraduate, A.TOKUL(Student), 2004
SAADETTİN A., Doğrusal zamanla değişmeyen sistemlerde Laguerre serileri kullanarak durum değişkenlerinin kestirimi, Postgraduate, Y.YEĞİN(Student), 2004
SAADETTİN A., Veri tabanı mimarisi ve yönetim sistemi ORACLE veri tabanı ve uygulamalar, Postgraduate, C.KARA(Student), 2001
SAADETTİN A., Otomatik yönlendirmeli bir aracın bulanık mantık ile denetimi, Postgraduate, B.SOYSAL(Student), 1998
SAADETTİN A., Endüksiyon makinalarında durum değişkenleri ve parametre kestirimi, Postgraduate, A.ABUŞOĞLU(Student), 1998

Jury Memberships

Associate Professor Exam, Associate Professor Exam, Istanbul Commerce University, January, 2024
Appointment to Academic Staff-Professorship, Appointment to Academic Staff-Professorship, İstanbul Yeni Yüzyıl Üniversitesi, January, 2024
Associate Professor Exam, Associate Professor Exam, Istanbul Commerce University, January, 2024
Appointment to Academic Staff-Assistant Professorship, Appointment to Academic Staff-Assistant Professorship, İstanbul Yeni Yüzyıl Üniversitesi, December, 2023
Appointment to Academic Staff-Professorship, Appointment to Academic Staff-Professorship, Mudanya Üniversitesi, December, 2023
Appointment to Academic Staff-Assistant Professorship, Appointment to Academic Staff-Assistant Professorship, İstanbul Gelişim Üniversitesi, December, 2023
Appointment to Academic Staff-Assistant Professorship, Appointment to Academic Staff-Assistant Professorship, İstanbul Ticaret Üniversitesi, October, 2023
Appointment to Academic Staff-Assistant Professorship, Appointment to Academic Staff-Assistant Professorship, İstanbul Ticaret Üniversitesi, October, 2023
Associate Professor Exam, Associate Professor Exam, Istanbul Commerce University, July, 2023
Associate Professor Exam, Associate Professor Exam, Istanbul Commerce University, July, 2023

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Control of SVC based on the sliding mode control method**
Köse E., Kizmaz H., Abaci K., Aksoy S.
Turkish Journal of Electrical Engineering and Computer Sciences, vol.22, no.3, pp.605-619, 2014 (SCI-Expanded)
- II. **Sliding mode control based on genetic algorithm for WSCC systems include of SVC**
Köse E., Abaci K., Kizmaz H., Aksoy S., Yalçın M.
Elektronika ir Elektrotehnika, vol.19, no.4, pp.19-24, 2013 (SCI-Expanded)
- III. **Elman neural network-based nonlinear state estimation for induction motors**
Aksoy S., Mühürçü A.
Turkish Journal of Electrical Engineering and Computer Sciences, vol.19, no.4, pp.1-15, 2011 (SCI-Expanded)
- IV. **State controllability computation technique for linear time-varying systems by using Taylor series approximation**
Aksoy S.
International Journal of Adaptive Control and Signal Processing, vol.23, no.10, pp.907-925, 2009 (SCI-Expanded)

Articles Published in Other Journals

- I. **Estimation of Dynamic State Variables Using Laguerre Series Approximation**
AKSOY S., BOLAT M.
International journal of advanced research in science, engineering and technology, vol.4, no.12, pp.4917-4916, 2017 (Peer-Reviewed Journal)
- II. **A Simple State Variable Estimation Algorithm Using Block Pulse Functions**
AKSOY S., BOLAT M.
INTERNATIONAL JOURNAL OF ADVANCED RESEARCH IN SCIENCE, ENGINEERING AND TECHNOLOGY, vol.4, no.12, pp.4944-4955, 2017 (Peer-Reviewed Journal)
- III. **ROTOR SPEED AND RESISTANCE ESTIMATION OF INDUCTION MOTOR VIA GRADIENT DESCENT BASED ALGORITHM WITH ADAPTIVE STEP SIZE**
KIZMAZ H., AKSOY S.
International Journal Of Electrical, Electronics And Data Communication, vol.4, no.11, pp.9-14, 2016 (Peer-Reviewed Journal)
- IV. **Online control of svc using ann based pole placement approach Sterowanie SVC przy wykorzystaniu algorytmu Pole Placement i sieci neuronowych**
Köse E., Abaci K., Aksoy S.
Przegląd Elektrotechniczny, vol.88, no.7 A, pp.33-37, 2012 (Scopus)
- V. **PI-Elman neural network based nonlinear state estimation for induction motors**
Aksoy S., Mühürçü A.
International Review of Electrical Engineering, vol.6, no.2, pp.706-718, 2011 (Scopus)
- VI. **Recurrent neural network based nonlinear state estimation for induction motors**
Aksoy S., Mühürçü A.
International Review of Electrical Engineering, vol.6, no.2, pp.636-645, 2011 (Scopus)
- VII. **State observability computation technique using Taylor series approximation for linear time-varying systems**
AKSOY S., Tonyali O.
Advances in Modelling & Analysis C, vol.48, no.2, pp.15-26, 1996 (Scopus)

Books & Book Chapters

- I. **Programlanabilir Lojik Denetleyiciler ve Mühendislik Uygulamaları (Genişletilmiş 2. Baskı)**

- AKSOY S.
Papatya Bilim Yayınevi, İstanbul, 2018
- II. **Lineer Sistem Teorisi**
AYAN K., AKSOY S.
Papatya Bilim, İstanbul, 2018
- III. **Lİneer Sistem Teorisi**
AKSOY S., AYAN K.
Papatya Bilim Yayınevi, İstanbul, 2018
- IV. **Lojik Devre Tasarımı ve Uygulamaları**
AKSOY S.
Sakarya Kitabevi, Sakarya, 2017

Refereed Congress / Symposium Publications in Proceedings

- I. **ÖNDEN VE ARKADAN SOĞUTMALI FOTOVOLTAİK PANELLERİN VERİMLİLİĞİNİN KARŞILAŞTIRILMASI**
Aksoy S.
1st BİLSEL INTERNATIONAL TRUVA SCIENTIFIC RESEARCHES and INNOVATION CONGRESS 25-26 AUGUST 2023, ÇANAKKALE/TÜRKİYE, Çanakkale, Turkey, 25 - 26 August 2023, vol.1, no.2, pp.147-155
- II. **BİR FIRININ MODELLENMESİ VE PLC TABANLI PID KONTROLÜ**
Aksoy S.
1st BİLSEL INTERNATIONAL TRUVA SCIENTIFIC RESEARCHES and INNOVATION CONGRESS 25-26 AUGUST 2023, ÇANAKKALE/TÜRKİYE, Çanakkale, Turkey, 25 - 26 August 2023, vol.1, no.2, pp.138-146
- III. **THE ESTIMATION OF SERIES RESISTANCE AND SHUNT RESISTANCE OF PV CELL USING GENETIC ALGORITHM**
MENAK R., AKSOY S., KIZMAZ H.
1st INTERNATIONAL ENGINEERING AND TECHNOLOGY SYMPOSIUM, Batman, Turkey, 3 - 05 May 2018, vol.1, pp.1137-1141
- IV. **DESIGN AND COMPARISON OF LED LIGHTING SYSTEM INSTEAD OF CURRENT HPS LIGHTING SYSTEM FOR SIIRT-SIRNAK HIGHWAY**
BOLAT M., AKSOY S.
1st INTERNATIONAL ENGINEERING AND TECHNOLOGY SYMPOSIUM, Batman, Turkey, 3 - 05 May 2018
- V. **STATE ESTIMATION IN INDUCTION MOTORS USING THE CLOSED LOOP OBSERVER**
AKSOY S., BOLAT M.
1st INTERNATIONAL ENGINEERING AND TECHNOLOGY SYMPOSIUM, Batman, Turkey, 3 - 05 May 2018, vol.1, pp.1152-1158
- VI. **CONTROL OF SECOND ORDER NONLINEAR SYSTEM USING AN ONLINE AUTO-TUNNING WITH EXTENDED KALMAN-BUCY FILTER**
KIZMAZ H., AKSOY S.
1st INTERNATIONAL ENGINEERING AND TECHNOLOGY SYMPOSIUM, Batman, Turkey, 3 - 05 May 2018, vol.1, pp.1120-1125
- VII. **STATE ESTIMATION IN SINUSOIDAL SUPPLIED INDUCTION MOTORS VIA BLOCK-PULSE FUNCTION**
AKSOY S.
1st INTERNATIONAL ENGINEERING AND TECHNOLOGY SYMPOSIUM, Batman, Turkey, 3 - 05 May 2018, vol.1, pp.1112-1119
- VIII. **Sliding Mode Control Application on DC Motor**
AKSOY S., BOLAT M.
1st INTERNATIONAL ENGINEERING AND TECHNOLOGY SYMPOSIUM, Batman, Turkey, 3 - 05 May 2018, vol.1, pp.1147-1151
- IX. **CASCADE POSITION CONTROL OF DC MOTOR**
AKSOY S., BOLAT M.

1st INTERNATIONAL ENGINEERING AND TECHNOLOGY SYMPOSIUM, Batman, Turkey, 3 - 05 May 2018, vol.1, pp.1126-1130

- X. **Geniřletilmiş Kalman-Bucy Filtreli Çevrimiçi Otomatik Ayarlama Kullanarak İkinci Dereceden Doğrusal Olmayan Bir Sistemin Kontrolü**
KIZMAZ H., AKSOY S.
1st INTERNATIONAL ENGINEERING AND TECHNOLOGY SYMPOSIUM, Batman, Turkey, 3 - 05 May 2018, pp.1120-1125
- XI. **Analyzing of the Efficiency of the Tracking Solar Panel and Fixed Solar Panel in Simulation Environment.**
MENAK R., KIZMAZ H., AKSOY S.
ULUSLARARASI GAP YENİLENEBİLİR ENERJİ VE ENERJİ VERİMLİLİĞİ KONGRESİ - 2018, URFA, Turkey, 10 - 12 May 2018, vol.1, pp.283-284
- XII. **Analyzing of the Temperature Effect on the Photovoltaic Panels in Simulation Environment**
MENAK R., KIZMAZ H., AKSOY S.
ULUSLARARASI GAP YENİLENEBİLİR ENERJİ VE ENERJİ VERİMLİLİĞİ KONGRESİ - 2018, URFA, Turkey, 10 - 12 May 2018, vol.1, pp.287-288
- XIII. **Comparison of Experimental and Simulation Results of Photovoltaic Module/Array Under Varying Environmental Factors**
MENAK R., AKSOY S., KIZMAZ H.
IATS 2017 ELAZIĞ, Elazığ, Turkey, 19 - 22 October 2017
- XIV. **Sabit Katsayılı Doğrusal Sistemlerin Durum Değişkenlerinin Walsh Serisel Yaklaşıklığı ile Kestirimi**
AKSOY S., BOLAT M.
2017 IMESET CONFERENCE, Bitlis, Turkey, 27 - 29 October 2017, pp.661-666
- XV. **Akdeniz Bölgesinin Noaa/Avhrr Uydu Verileri Kullanılarak Solar Radyasyonun YSA Metodu ile Hesaplanması**
AKSOY S., BOLAT M.
2017 Imeset Conference, Bitlis, Turkey, 27 - 29 October 2017, pp.654-660
- XVI. **Noaa/Avhrr Uydusu ve Meteorolojik Veriler Kullanılarak Güneydoğu Anadolu Bölgesinin Yer Yüzey Sıcaklığının En Küçük Kare Hatası Metodu ile Hesaplanması**
AKSOY S., BOLAT M., ALP E.
2017 IMESET CONFERENCE, Bitlis, Turkey, 27 - 29 October 2017, pp.252-259
- XVII. **TEK EKSENLİ GÜNEŞ İZLEME SİSTEMİ İLE GÜNEŞPANELLERİNDEKİ ENERJİ VERİMLİLİĞİN İNCELENMESİ**
AKSOY S., bükün n., MENAK R.
2017 IMESET, Bitlis, Turkey, 27 - 29 October 2017
- XVIII. **Arkadan Soğutma ile Fotovoltaik Panellerin Verimliliğinin Arttırılması**
KIZILKAN Ö., AKSOY S.
2017 IMESET, Bitlis, Turkey, 27 - 29 October 2017
- XIX. **FV Panel Açısının Panelin Verimliliğine Olan Etkisinin Modellenmesi**
MENAK R., AKSOY S., KIZMAZ H.
2017 IMESET, Bitlis, Turkey, 27 - 29 October 2017
- XX. **A Simple State Observer Design for Linear dynamic Systems by Using Taylor Series**
AKSOY S.
3rd International Conference on Advanced Technology & Sciences, Konya, Turkey, 1 - 03 September 2016, vol.1, pp.621-627
- XXI. **PLC Tabanlı Doğrusal Konum Kontrolü**
AKSOY S., BOLAT M.
1st international Mediterranean Sciences and Engineering Congress, Adana, Turkey, 26 - 28 October 2016, vol.1, pp.3736-3743
- XXII. **Su Soğutma İle Fotovoltaik Panellerin Verimliliğinin Arttırılması**
AKSOY S., ALTINIŞIK U.

1st International Mediterranean Science and Engineering Congress, Adana, Turkey, 26 - 28 October 2016, vol.1, pp.5903-5908

XXIII. State Estimation of Induction Motor via Sliding Mode Filter

KIZMAZ H., AKSOY S.

48th ISERD International Conference, Berlin, Germany, 8 - 09 September 2016, pp.17-22

XXIV. Rotor Speed and Resistance Estimation of Induction Motor via Gradient Descent Based Algorithm with Adaptive Step Size

KIZMAZ H., AKSOY S.

48th ISERD International Conference, Berlin, Germany, 8 - 09 September 2016, pp.23-28

XXV. The State Variables Calculation Technique for Induction Motors Via Orthogonal Laguerre Functions
AKSOY S.

1st International Conference on Engineering Technology and Applied Sciences, Afyon, Turkey, 21 - 22 April 2016, vol.1, pp.1586-1590

XXVI. A Simple State Variable Calculation Algorithm in Induction Motor By using Taylor Series Approximation

AKSOY S.

1st International Conference on Engineering Technology and Applied Sciences, Afyon, Turkey, 21 - 22 April 2016, vol.1, pp.1591-1595

XXVII. A simple State Observer Design for Linear dynamic System by Using Taylor Series Approximation

AKSOY S., KIZMAZ H.

" 4th International Eurasian Conference on Mathematical Sciences and Applications, Athens, Greece, 31 August - 03 September 2015, vol.1, pp.306-307

XXVIII. SLIDING MODE CONTROL BASED ON GENETIC ALGORITHM FOR WSCC SYSTEMS INCLUDE OF SVC

KÖSE E., ABACI K., KIZMAZ H., AKSOY S., YALÇIN M. A.

ELEKTRONIKA IR ELEKTROTEHNIKA, 2 - 05 February 2013

XXIX. Reduced order rotor time constant and flux estimator for vector controlled induction motor

AKSOY S., ALTAŞ İ. H., EKER M.

Proceedings of the 1996 8th Mediterranean Electrotechnical Conference, MELECON'06. Part 3 (of 3), Bari, Italy, 13 - 16 May 1996, vol.1, pp.274-277

Expert Reports

I. Milli Savunma Üniv. Öğrencisi Sınav kağıdı ve soruları incelemesi ve Not Tespiti

Aksoy S.

İSTANBUL 6. İDARE MAHKEMESİ, pp.4, İstanbul, 2023