Asst. Prof. ÖZGÜR SOLMAZ

Personal Information

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ScopusID: 47562297900
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Education

Doctorate, Selcuk University, Turkey 2006 - 2013
Postgraduate, Selcuk University, Turkey 2003 - 2006
Undergraduate, Gazi University, Teknik Eğitim Fakültesi, Turkey 1998 - 2002

Foreign Languages

English

Dissertations

Doctorate, Güneş enerjisi destekli (PV) çalışan taşıt klima sisteminin dinamik performansının araştırılması, Selcuk University, 2013
Postgraduate, LPG dönüşümü yapılmış bir motorun soğukta ilk hareketini kolaylaştırıcı sistemin tasarımı ve imalatı, Selcuk University, 2006

Research Areas

Avesis Research Areas: Energy, Fluid Mechanics, Alternative Energy Resources, Solar energy, Heating, Refrigerating and Air Conditioning, Internal Combustion Engines, Computational fluid dynamics
WoS Research Areas: Energy & Fuels
Scopus Research Areas: General Energy

Academic Positions

Assistant Professor, 2016 - Present
Assistant Professor, Manisa Celal Bayar University, HASAN FERDİ TURGUTLU TEKNOLOJİ FAKÜLTESİ, ENERJİ SİSTEMLERİ MÜHENDİSLİĞİ, 2016 - Present
Research Assistant, Selcuk University, 2002 - 2016

Academic and Administrative Experience

Manisa Celal Bayar University, 2019 - Present
Manisa Celal Bayar University, 2018 - Present
Selcuk University, 2013 - 2016

Courses

Undergraduate
Makine Mühendisliği Tasarım Projesi, Undergraduate, 2019-2020
Soğutma Tekniği ve Uygulamaları, Undergraduate, 2019-2020
Enerji Sistemleri Mühendisliği Tasarım Projesi, Undergraduate, 2019-2020
Enerji Mühendisliği Laboratuvarı, Undergraduate, 2019-2020, 2018-2019
Enerji Sistemleri Mühendiliğine Giriş, Undergraduate, 2019-2020
Akışkanlar Mekaniği, Undergraduate, 2019-2020, 2018-2019, 2017-2018, 2016-2017
Mühendislik Belgeselleri, Undergraduate, 2018-2019
Ölçme Tekniği, Undergraduate, 2018-2019
Enerji Sistemleri Mühendisliğine Giriş, Undergraduate, 2018-2019
Elektrik Elektronik Bilgisi, Undergraduate, 2018-2019
Otomotiv Mekatroniği, Undergraduate, 2018-2019, 2017-2018
Bilgisayar Destekli Teknik Resim, Undergraduate, 2018-2019
Hidrolik ve Pnömatik Sistemler, Undergraduate, 2017-2018
Temel Bilgisayar Bilimleri, Undergraduate, 2016-2017
Akışkanlar Mekaniği, Undergraduate, 2014-2015

Supervised Theses

SOLMAZ Ö., Yüksek Lift Katsayısına Sahip S1223 Kanat Profilinde Laminer Ayrılma Kabarcığı Kaynaklı Tutunma Kaybının Pasif Akış Kontrolü ile Sayısal Olarak İncelenmesi, Postgraduate, A.MANSOUR(Student), 2024
SOLMAZ Ö., Dört coğrafi yön ve açı için güneş ışınımı tahmin modeli geliştirilmesi, Postgraduate, H.KAYHAN(Student), 2024
SOLMAZ Ö., Üniversite Binası Çatısına Kurulabilecek Fotovoltaik Güneş Enerji Santrali Tasarımı ve Analizi, Postgraduate, İ.GÜMÜŞ(Student), 2024
SOLMAZ Ö., Uzaktan erişimli soğutma deney seti tasarımı ve gerçekleştirilmesi, Postgraduate, T.ORHANOĞLU(Student), 2024
SOLMAZ Ö., Evaporatör kanat aralıklarının soğutma performansına etkisinin belirlenmesi, Postgraduate, M.SAMİ(Student), 2024
SOLMAZ Ö., İçten yanmalı motorun elektrik motoruyla senkron çalıştırılarak hibrit motor performansının iyileştirilmesi, Postgraduate, H.SIRDAŞ(Student), 2022
SOLMAZ Ö., Fotovoltaik-Termal (PV-T) Destekli Organik Rankine Çevrim (ORC) Performansının İncelenmesi, Postgraduate, H.KOLAY(Student), 2021

Articles

I. **Experimental investigation of biodiesel-isopropanol fueled diesel engine coupled with DOC-SCR aftertreatment: Combustion behavior and emission mitigation strategy**
Erçek E., Baydır Ş. A., SOLMAZ Ö., Uyumaz A., Kilmen A. B., Aksoy F.
International Journal of Engine Research, 2026 (SCI-Expanded, Scopus)

II. **Numerical Investigation and Machine Learning-Based Prediction of the Effect of Using Ring Turbulators on Heat Transfer Characteristics in a Counterflow Heat Exchanger**
SOLMAZ Ö., BAYSAL E., Ökten M.
Recent Innovations in Chemical Engineering, vol.16, no.5, pp.362-378, 2023 (Scopus)

III. **A real-time simulation environment architecture for autonomous vehicle design Otonom araç tasarimi için gerçek zamanli benzetim ortami mimarisi**
ÖZÇEVİK Y., SOLMAZ Ö., BAYSAL E., Ökten M.
Journal of the Faculty of Engineering and Architecture of Gazi University, vol.38, no.3, pp.1867-1878, 2023 (SCI-Expanded, Scopus, TRDizin)

IV. **Numerical investigation of the effect of using counter-flow turbulators on pressure change in inner tube heat exchangers İç içe borulu isı değiştiricide zıt akışta türbülatör kullanımının basınç değişimine etkisinin sayısal olarak incelenmesi**
BAYSAL E., SOLMAZ Ö., Ökten M., Başeski Y.
El-Cezeri Journal of Science and Engineering, vol.8, no.2, pp.817-826, 2021 (Scopus, TRDizin)

V. **Comparison of artificial neural network and fuzzy logic approaches for the prediction of in-cylinder pressure in a spark ignition engine**
SOLMAZ Ö., GÜRBÜZ H., Karacor M.
Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, vol.142, no.9, 2020 (SCI-Expanded, Scopus)

VI. **Production of waste tyre oil and experimental investigation on combustion, engine performance and exhaust emissions**
Uyumaz A., Aydoğan B., SOLMAZ H., Yılmaz E., Yeşim Hopa D., Aksoy Bahtli T., SOLMAZ Ö., Aksoy F.
Journal of the Energy Institute, vol.92, no.5, pp.1406-1418, 2019 (SCI-Expanded, Scopus)

VII. **Exergy analysis of flue gases and modeling with artificial neural networks**
AKSOY A. B., SOLMAZ Ö., AKSOY A. B.
PAMUKKALE UNIVERSITY JOURNAL OF ENGINEERING SCIENCES-PAMUKKALE UNIVERSITESI MUHENDISLIK BILIMLERI DERGISI, vol.24, no.4, pp.610-615, 2018 (ESCI, TRDizin)

VIII. **Hourly cooling load prediction of a vehicle in the southern region of Turkey by Artificial Neural Network**
SOLMAZ Ö., Ozgoren M., Aksoy M. H.
ENERGY CONVERSION AND MANAGEMENT, vol.82, pp.177-187, 2014 (SCI-Expanded, Scopus)

IX. **Prediction of Hourly Solar Radiation in Six Provinces in Turkey by Artificial Neural Networks**
SOLMAZ Ö., Ozgoren M.
JOURNAL OF ENERGY ENGINEERING-ASCE, vol.138, no.4, pp.194-204, 2012 (SCI-Expanded, Scopus)

X. **Biodiesel production from animal fat-palm oil blend and performance analysis of its effects on a single cylinder diesel engine**
Sugozu I., ERYILMAZ T., Ors I., SOLMAZ Ö.
Energy Education Science and Technology Part A: Energy Science and Research, vol.28, no.1, pp.505-514, 2011 (Scopus)

XI. **An experimental investigation on effects of methanol blended diesel fuels to engine performance and emissions of a diesel engine**
Ciniviz M., Köse H., Canli E., SOLMAZ Ö.
Scientific Research and Essays, vol.6, no.15, pp.3189-3199, 2011 (Scopus)

Books

I. **Ceramic Coating Applications and Research Fields for Internal Combustion Engines**
CİNİVİZ M., SALMAN M. S., CANLI E., KÖSE H., SOLMAZ Ö.
in: Ceramic Coatings Applications in Engineering, Feng Shi, Editor, INTECH, London, pp.195-234, 2012

Papers Presented at Peer-Reviewed Scientific Conferences

I. **Gerçek Zamanlı Simülasyonda Şerit Takibi için Otonom Araç Tasarımı**
SOLMAZ Ö., ÖZÇEVİK Y., BAYSAL E., ÖKTEN M., PANPALLI A.
2nd International Symposium on Automotive Science and Technology (ISASTECH), Ankara, Turkey, 8 - 10 September 2021, pp.310-316, (Full Text)

II. **Trafik Levhası Tanıma için Sokak Görüntüleri Kullanarak Veri Seti Oluşturma ve Sınama**
SOLMAZ Ö., ÖZÇEVİK Y., BAYSAL E., ÖKTEN M., ÇULHA A.
2nd International Symposium on Automotive Science and Technology (ISASTECH), Ankara, Turkey, 8 - 10 September 2021, pp.344-349, (Full Text)

III. **Design and Manufacturing of Cooling Training System Using Refrigerant R-290**
ÇAKAL Ü., BİLGETEKİN A., ÖZKURT C. T., SOLMAZ Ö., BAYSAL E., ÖKTEN M.
International Integrated Pollution Prevention and Control Symposium (EKOK'21), Karabük, Turkey, 01 April 2021, vol.1, pp.131-134, (Full Text)

IV. **Investigation of The Effect of Milk Cow Feed Ratio on Biogas Production Potential**
DAL S., BAYSAL E., SOLMAZ Ö., ÖKTEN M.
International Integrated Pollution Prevention and Control Symposium (EKOK'21), Karabük, Turkey, 01 April 2021, vol.1, pp.135-138, (Full Text)

V. **Improving the performance of internal combustion engines with ORC system" 8th International Conference on Renewable Fuels, Combustion and Fire**
SOLMAZ Ö., BAYSAL E., ÖKTEN M., GÜRBÜZ H.
8th International Conference on Renewable Fuels, Combustion and Fire, Ankara, Turkey, 05 March 2021, (Full Text)

VI. **Improving the performance of internal combustion engines with ORC system**
SOLMAZ Ö., BAYSAL E., ÖKTEN M., GÜRBÜZ H.
8th International Conference on Renewable Fuels, Combustion and Fire (FCE'21), Ankara, Turkey, 05 March 2021, vol.1, pp.75-79, (Full Text)

VII. **Uygulamalı Soğutma Eğitimi İçin Deney Seti Tasarımı**
BAYSAL E., SOLMAZ Ö., ÖKTEN M.
1.Uluslararası Palandöken Bilimsel Çalışmalar Kongresi, Erzurum, Turkey, 24 - 25 November 2020, pp.251-258, (Full Text)

VIII. **SOLAR ENERGY POTENTIAL IN TURKEY AND MANUFACTURABILITY RESEARCH FOR EQUIPMENTS OF PHOTOVOLTAIC PANEL IN KONYA PROVINCE**
DOĞAN S., YAĞMUR S., AKSOY M. H., KÖSE F., SOLMAZ Ö.
3rd INTERNATIONAL CONGRESS ON ENVIRONMENTAL RESEARCHES AND TECHNOLOGY, Belgrade, Serbia, 8 - 12 November 2017, vol.1, pp.35, (Summary Text)

IX. **Estimating Hourly Solar Radiation in Turkey UsingAir Temperatures**
SOLMAZ Ö.
6th International Conference on Advanced Technology Sciences (ICAT'xxRiga), Riga, Latvia, 12 - 15 September 2017, vol.1, pp.208-211, (Full Text)

X. **Energy and Exergy Analyses of a Refrigerator Having Circular Cross Section Tube Bundle Evaporator**
SOLMAZ Ö., KARATAŞ M., DOĞAN S., ÖZGÖREN M., ÖZŞEKER G.
8th International Ege Energy Symposium and Exhibition (IEESE-8), Afyonkarahisar, Turkey, 11 - 13 May 2016, vol.1, pp.791-796, (Full Text)

XI. **Experimental Study of Performance of Solar Energy Powered Solar Distillation System in Konya**
ÜNSAL H., ÖZGÖREN M., SOLMAZ Ö.
8th International Ege Energy Symposium and Exhibition (IEESE-8), Afyonkarahisar, Turkey, 11 - 13 May 2016, vol.1, pp.817-822, (Full Text)

XII. **Investigations of Flow around Cylinders having Circular and Elliptical Geometries for Multiple and Staggered Arrays via PIV Method**

DOĞAN S., ÖZGÖREN M., SOLMAZ Ö., ÖZŞEKER G.
8th International Ege Energy Symposium and Exhibition (IEESE-8), Afyonkarahisar, Turkey, 11 - 13 May 2016, vol.1, pp.731-737, (Full Text)

XIII. **Experimental Investigation of Evaporator Heating Performance in Tractor Cabin**
SOLMAZ Ö., GULHAN S. F., KESKİN M. A., ÖZGÖREN M., GÜRÇELİK H.
8th International Ege Energy Symposium and Exhibition (IEESE-8), Afyonkarahisar, Turkey, 11 - 13 May 2016, vol.1, pp.829-834, (Full Text)

XIV. **Stereo PIV Measurement of The Wake Flow of An Ellipse Cylinder for Different Angles of Attack**
CANLI E., DOĞAN S., ÖZGÖREN M., SOLMAZ Ö., ÖZŞEKER G.
11-th International Syposium on Particle Image Velocimetry-PIV-2015, California, United States Of America, 14 - 16 September 2015, (Summary Text)

XV. **Comparison of Flow Structures around Circular and Eliptical Cylinders via Stereo PIV**
DOĞAN S., CANLI E., ÖZGÖREN M., SOLMAZ Ö., GÖKHAN Ö.
11-th International Syposium on Particle Image Velocimetry-PIV-2015, California, United States Of America, 14 - 16 September 2015, (Summary Text)

XVI. **Elips Kesitli Isı Değiştirici Boruları Etrafında Oluşan Akış Yapısının Elips Çap Oranına Göre Sayısal İncelenmesi**
DOĞAN S., CANLI E., ÖZGÖREN M., SOLMAZ Ö., ÖZŞEKER G.
20. Ulusal Isı Bilimi ve Tekniği Kongresi, Balıkesir, Turkey, 2 - 05 September 2015, pp.1307-1315, (Full Text)

XVII. **Çapraz Akışlı Isı Değiştiricileri İçin Akışa Uygun Bir Isı Değiştiricisi Borusu**
CANLI E., DOĞAN S., ÖZGÖREN M., SOLMAZ Ö., ÖZŞEKER G.
20. Ulusal Isı Bilimi ve Tekniği Kongresi, Balıkesir, Turkey, 2 - 05 September 2015, pp.1155-1166, (Full Text)

XVIII. **Güneş Enerjisi ile Çalışan Aktif ve Pasif Damıtma Sistemlerinin Performansının Konya İli Şartlarında İncelenmesi**
ÜNSAL H., ÖZGÖREN M., SOLMAZ Ö.
20. Ulusal Isı Bilimi ve Tekniği Kongresi, Balıkesir, Turkey, 2 - 05 September 2015, pp.451-458, (Full Text)

XIX. **Numerical Investigation of The Wake Flow of An Ellipse Cylinder for Different Angles of Attack**
CANLI E., DOĞAN S., ÖZGÖREN M., SOLMAZ Ö., ÖZŞEKER G.
6th International Congress of Energy and Environment Engineering and Management, Paris, France, 22 - 24 July 2015, (Full Text)

XX. **Comparison of Flow Structures Around Circular and Elliptical Cylinders**
DOĞAN S., CANLI E., ÖZGÖREN M., SOLMAZ Ö., ÖZŞEKER G.
6th International Congress of Energy and Environment Engineering and Management, Paris, France, 22 - 24 July 2015, (Full Text)

XXI. **Taşıt klimasi performansının dinamik çevre şartlarında deneysel incelenmesi**
SOLMAZ Ö., ÖZGÖREN M., CANLI E.
19. Ulusal Isı Bilimi ve Tekniği Kongresi, Samsun, Turkey, 9 - 12 September 2013, pp.1484-1490, (Full Text)

XXII. **Artificial Neural Network Application To Predict The Hourly Cooling Load Of A Vehicle In The Southern Region Of Turkey**
SOLMAZ Ö., ÖZGÖREN M., AKSOY M. H.
Proceedings of 8-th International Green Energy Conference, Kiev, Ukraine, 17 - 19 June 2013, pp.229-234, (Full Text)

XXIII. **Investigation of Absorption Cooling Application Powered by Solar Energy in the South Coast Region of Turkey**
Babayigit O., Aksoy M. H., Ozgoren M., SOLMAZ Ö.
7th International Conference on Experimental Fluid Mechanics (EFM), Hradec-Kralove, Czech Republic, 20 - 23 November 2012, (Full Text)

XXIV. **Experimental Investigation of Cotton Oil Methyl Ester Usage in A CI Engine**
KAHRAMAN A., SOLMAZ Ö., CİNİVİZ M., ÖRS İ.
Conference of International Journal of Arts and Sciences, Gottenheim, Germany, 2 - 07 December 2012, vol.6, pp.99-106, (Full Text)

XXV. **An Experimental Investigation of Electricity Production and Consumption From Wind and Solar Energy for Konya Province**
ÖZGÖREN M., SOLMAZ Ö., AKSOY M. H., NECİP U.
6th International Ege Energy Symposium & Exhibition, İzmir, Turkey, 28 - 30 June 2012, vol.1, pp.370-381, (Full Text)

XXVI. **Investigation of Effects on Engine Performance and Exhaust Emissions of Cottonseed Oil Methyl Ester at Different Injection Pressure**
ÖRS İ., KAHRAMAN A., SOLMAZ Ö., CİNİVİZ M.
12th International Combustion Symposium, Kocaeli, Turkey, 24 - 26 May 2012, vol.1, pp.347-354, (Full Text)

XXVII. **Investigation of an Electricity Production System For Remote Houses Driven by Wind and Solar Energy for Konya Turkey**
ÖZGÖREN M., AKSOY M. H., SOLMAZ Ö., KÖSE F., UYSAL N.
International Journal of Arts & Sciences Conference (IJAS), Gottenheim, 8 - 13 April 2012, (Summary Text)

XXVIII. **Prediction of Hourly Solar Radiation Using an Artificial Neural Network**
SOLMAZ Ö., ÖZGÖREN M.
17th International Conference on Soft Computing, Brno, Czech Republic, 15 - 17 June 2011, vol.1, pp.218-225, (Full Text)

XXIX. **Experimental Investigation of The System Designed For Helping Cold Start Up of The LPG Engines**
SOLMAZ Ö., KUŞ R., IŞIK H.
10th International Scientific Conference, UNITECH10, Gabrovo, Bulgaria, 19 - 20 November 2010, vol.2, pp.237-241, (Full Text)

XXX. **Prediction of Daily Solar Radiation Using ANNs For Selected Provinces in Turkey**
SOLMAZ Ö., KAHRAMANLI H., KAHRAMAN A., ÖZGÖREN M.
10th International Scientific Conference, UNITECH10, Gabrovo, Bulgaria, 19 - 20 November 2010, vol.3, pp.450-456, (Full Text)

XXXI. **Prediction of Hourly Cooling Load Capacity of An Automotive Air Conditioning System**
ÖZGÖREN M., SOLMAZ Ö., KAHRAMAN A.
International Ege Energy Symposium and Exhibition (IEESE-5), Denizli, Turkey, 27 - 30 June 2010, (Full Text)

XXXII. **Calculation of Dynamic Cooling Load Capacity of a Building Air conditioning Powered by Wind or Solar Energy**
ÖZGÖREN M., ERDOĞAN K., KAHRAMAN A., SOLMAZ Ö., KÖSE F.
International Ege Energy Symposium and Exhibition (IEESE-5), Denizli, Turkey, 27 - 30 June 2010, (Full Text)

XXXIII. **Determination Of Cooling Load Of A Midibus Via Meteorological Data Case Study For Edirne**
ÖZGÖREN M., SOLMAZ Ö., KAHRAMAN A.
International Scientific Conference, UNITECH09, Gabrovo, Bulgaria, 20 - 21 November 2009, vol.2, pp.544-551, (Full Text)

XXXIV. **Effect of Cottonseed Oil Methyl Ester on The Performance and Exhaust Emissions of a Vehicle**
OĞUZ H., KAHRAMAN A., ÖRS İ., SOLMAZ Ö., ER H., KOYUN S.
International Scientific Conference UNITECH'09, Gabrovo, Bulgaria, 20 - 21 November 2009, vol.2, pp.539-543, (Full Text)

XXXV. **Dynamic Performance Investigation of a Heat Pump System Driven by Hybrid Energy Resources of Solar Photovoltaic and or Wind**
ÖZGÖREN M., ERDOĞAN K., KAHRAMAN A., SOLMAZ Ö., KÖSE F.
15th International Energy & Environment Fair and Conference, 13 - 15 May 2009, vol.1, pp.282

XXXVI. **Güneş Panelleri ile Çalışan Taşıt Klimasının Dinamik Performansı Konya Örneği**
ÖZGÖREN M., SOLMAZ Ö., KAHRAMAN A.
5. Uluslararası İleri Teknolojiler Sempozyumu, Karabük, Turkey, 13 - 15 May 2009, vol.1, pp.1738-1744, (Full Text)

XXXVII. **LPG yi Yakıt Olarak Kullanan Motorların Soğukta İlk Hareketini Kolaylaştırmak İçin Tasarlanan Sistemin Deneysel Olarak Araştırılması**
SOLMAZ Ö., KUŞ R., IŞIK H.
10. Uluslararası Yanma Sempozyumu, Sakarya, Turkey, 9 - 10 October 2008, vol.1, pp.464-468, (Full Text)

XXXVIII. **Taşıtlarda CAN BUS la VERİ İLETİŞİMİ**
ÖRS İ., SOLMAZ Ö., UÇAR G.
3. Trafik ve Yol Güvenliği Uluslararası Kongresi Sergisi, Ankara, Turkey, 17 - 19 May 2006, vol.2, pp.963-980, (Full Text)

XXXIX. **Otomotiv Mekatronik Sistemleri**
SOLMAZ Ö., KUŞ R., IŞIK H., UÇAR G.
4. Uluslar arası İleri Teknolojiler Sempozyumu, Konya, Turkey, 28 - 30 December 2005, vol.2, pp.1011-1017, (Full Text)

Peer Reviews in Scientific Publications

ENERGY CONVERSION AND MANAGEMENT, Other journals, April 2025
JOURNAL OF RENEWABLE AND SUSTAINABLE ENERGY, Other journals, April 2025
ENERGY CONVERSION AND MANAGEMENT, Other journals, January 2017
Other journals, January 2017
International Journal of Automotive Engineering and Technologies, Other journals, January 2017
Other journals, January 2017
Other Journals, January 2016
International Journal of Automotive Engineering and Technologies, Other journals, January 2016
Conference Paper (Full Text), January 2016

Metrics

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