

Asst. Prof. DİLŞAD ENGIN

Personal Information

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Biography

Dilsad Engin received her bachelor's degree in 1985 from Hacettepe University, Turkey as an Electric-Electronics Engineer, MSc and PhD degrees from Ege University Graduate School of Natural and Applied Sciences; Turkey in 1996 and 2006, respectively. She is an assistant professor in Ege University Ege Higher Vocational School, Turkey. She teaches Digital Electronics, Sensors and Transducers, Programmable Controllers, and SCADA Systems in Department of Control and Automation Technology; SCADA Systems and Engineering Mathematics in graduate degree Mechatronics. Dr. Engin's research interests are on solar cells, automatic control, programmable controllers, SCADA systems and instrumentation. Dr. Engin is a member of IEEE, IEEE Digital Senses Community and Internet of Things Community.

Education Information

Doctorate, Ege University, Güneş Enerjisi Enstitüsü, Güneş Enerjisi Anabilim Dalı, Turkey 2000 - 2006

Post Graduate, Ege University, Fen Bilimleri Enstitüsü, Güneş Enerjisi (YI), Turkey 1993 - 1996

Under Graduate, Hacettepe Üniversitesi, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, Turkey 1985 - 1990

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Yapı ile Bütünleştirilebilir Güneş Pili/Termal Toplayıcı (PV/T) Hibrid Sistemin Performans Analizi ve Optimizasyonu, Ege Üniversitesi, Fen Bilimleri Enstitüsü, Güneş Enerjisi Abd, 2006

Post Graduate, Yaprak Büyüklüğünü Belirleyen Bir Ölçme Sisteminin Geliştirilmesi, Ege Üniversitesi, Fen Bilimleri Enstitüsü, Güneş Enerjisi Abd, 1996

Research Areas

Information Systems, Communication and Control Engineering, Control and System Engineering, Distributed Control Systems, Controllers, Measurement and Control of Nonelectric Variables, Industrial automation, Actuating and Final Control Devices, Control Systems and Instrumentation, Mechatronic Systems, Route and Motion Planning, Electrical and Electronics Engineering, Energy, Renewable energy, Engineering and Technology

Academic Titles / Tasks

Assistant Professor, Ege Üniversitesi, Ege Meslek Yüksekokulu, Elektronik Ve Otomasyon Bölümü, 2018 - Continues

Assistant Professor, Ege Üniversitesi, Ege Meslek Yüksekokulu, Elektronik Ve Otomasyon Bölümü, 2009 - 2018
Lecturer, Ege Üniversitesi, Ege Meslek Yüksekokulu, Elektronik Ve Otomasyon Bölümü, 1992 - 2009
Lecturer, Gaziantep Üniversitesi, Gaziantep Meslek Yüksekokulu, Elektronik Ve Otomasyon Bölümü, 1990 - 1992

Professional Experience

Yatay Geçiş Komisyonu Başkanı, Ege University, Ege Meslek Yüksekokulu, Elektronik Ve Otomasyon, 2020 - Continues
Üniversite-Sanayi İşbirliği Komisyonu üyesi, Ege University, Ege Meslek Yüksekokulu, Elektronik Ve Otomasyon, 2019 - Continues
Program Koordinatörü, Ege University, Elektronik ve Otomasyon, 1996 - Continues
Teknoloji Geliştirme Bölgelerinde Görevlendirme Komisyonu, Ege University, Ege Meslek Yüksekokulu, Elektronik ve Otomasyon, 2017 - 2019
Bölüm Akademik Teşvik Değerlendirme Komisyonu Üyesi, Ege University, Elektronik ve Otomasyon, 2016 - 2018

Advising Theses

Engin D., Hibrit yapılı sürekli robot tasarımı, adaptif kontrolü ve deneysel incelenmesi, Post Graduate, M.Can(Student), 2020

Jury Memberships

Post Graduate, Post Graduate, Ege Üniversitesi, February, 2020
Doctorate, Doctorate, Ege Üniversitesi, June, 2019
Post Graduate, Post Graduate, Balkesir Üniversitesi, March, 2019
Doctoral Examination, Ansoumana Dijite Doktora yeterlilik sınavı, Ege Üniversitesi, Fen Bilimleri Enstitüsü Güneş Enerjisi ABD, June, 2017
Academic Staff Examination, Bilim sınavı üyeliği, Ege Üniversitesi, Ege Meslek Yüksekokulu, December, 2012
Academic Staff Examination, Bilim sınavı üyeliği, Ege Üniversitesi, Ege Meslek Yüksekokulu, January, 2012

Taught Courses And Trainings

Engin D., Engin M., Pınar S., Meslek Fabrikası Mekatronik Eğitimi, 2020 - 2020
Engin D., Programmable Logic Controller (PLC), 2019 - 2019
Engin D., Engin M., Pınar S., İşler H., Meslek Fabrikası Mekatronik Eğitimi, 2019 - 2019
Engin D., MEB Hizmetiçi Eğitim-Programlanabilir Lojik Kontrol Kursu (PLC), 2011 - 2011

Program Developments

Tekin A. B. , Yıldız H., Yürdem H., Engin M., Şendemir A., Engin D., Bulut H., Alcı M., Masters With Thesis, Birbirine Bağlı Tek Bir Diploma, Mechatronics, 2012 - Continues

Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- **Modeling and performance optimization of photovoltaic and thermal collector hybrid system**
Engin D., Çolak M.
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.24, pp.3524-3542, 2016 (Journal Indexed in SCI)
- **Optimization Controller for Mechatronic Sun Tracking System to Improve Performance**
Engin M., Engin D.

ADVANCES IN MECHANICAL ENGINEERING, 2013 (Journal Indexed in SCI)

- **Design of a Plant Leaf Area Meter Using PV Cell and Embedded Microcontroller**

ENGİN D., ENGİN M.

ADVANCES IN MATERIALS SCIENCE AND ENGINEERING, 2013 (Journal Indexed in SCI)

Articles Published in Other Journals

- **Project Based Programmable Logic Controller Application**

Engin M., Engin D.

Journal of Mechatronics, vol.3, pp.185-192, 2015 (Refereed Journals of Other Institutions)

- **Programlanabilir Denetleyici ile PID Parametrelerinin Otomatik Ayarlanması**

ENGİN D.

Otomasyon Dergisi, pp.300-308, 2014 (Other Refereed National Journals)

- **Sizing PV wind hybrid energy system for lighting**

Engin M., Engin D.

International Journal of Development and Sustainability, vol.1, pp.85-98, 2012 (Refereed Journals of Other Institutions)

- **Assessment of Economic Viability for PV Based hybrid Energy System in West Coast of Turkey**

Engin M., Engin D.

Global Journal of Researches in Engineering, vol.12, pp.1-6, 2012 (Refereed Journals of Other Institutions)

- **Güneş Pili ile Yaprak Alanı Ölçümü Yapan Bir Sistemin Geliştirilmesi**

Engin D., Çolak M., Engin M.

Ege Üniversitesi Ziraat Fakültesi Dergisi, vol.45, pp.213-219, 2008 (International Refereed University Journal)

- **Yarı Saydam Güneş Pili Termal Toplayıcı PV T Hibrid Sistemin İzmir Koşullarında Analizi**

Engin D., Çolak M.

Celal Bayar Üniversitesi Soma Meslek Yüksekokulu Teknik Bilimler Dergisi, vol.2, pp.10-22, 2008 (National Refreed University Journal)

- **Mikroişlemciler Dersi Laboratuvarı için Yeni Deney Seti Tasarımı**

Engin M., Engin D.

Celal Bayar Üniversitesi Soma Meslek Yüksekokulu Teknik Bilimler Dergisi, vol.2, pp.35-44, 2007 (National Refreed University Journal)

Books & Book Chapters

- **Sensors and Digital Signal Conditioning in Mechatronic Systems**

Engin D., Engin M.

in: Design, Control and Applications of Mechatronic Systems in Engineering, Şahin Yıldırım, Editor, INTECH, Dubrovnik, pp.89-109, 2017

Refereed Congress / Symposium Publications in Proceedings

- **Embedded Artificial Neural Network on PLCs to Predict Nonlinear System Responses**

Duymazlar O., Engin M., Engin D.

9th Mediterranean Conference on Embedded Computing (MECO'xx2020), Podgorica, Serbia And Montenegro, 8 - 11 June 2020

- **Design and Application of OPC-based SCADA System with Multiple Controllers: An Electro-pneumatic Case Study**

Duymazlar O., Engin D.

2019 Innovations in Intelligent Systems and Applications Conference (ASYU), İzmir, Turkey, 31 October - 02 November 2019, pp.219-224

- **PID Control of a Parallel Mechanism Sun Tracking System by Microcontroller**

Engin M., Engin D.

SOLARTR 2018 Solar Conference Exhibition, İstanbul, Turkey, 29 - 30 November 2018, pp.200-207

- **Compensation of Thermocouple Nonlinearities with Embedded System**

Engin M., Engin D.

5th Mediterranean Conference on Embedded Computing (MECO), Bar, MONTENEGRO, 12 - 16 June 2016, pp.234-237

- **Measurement and evaluation of the results for optimization of a photovoltaic and thermal collector PV T hybrid system s performance**

Engin D.

SolarTR 2014 Conference Exhibition, İzmir, Turkey, 19 - 21 November 2014, pp.272-282

- **Proje Tabanlı PLC Eğitimi**

ENGİN D.

Meslek Yüksekokullarında Mekatronik Eğitimi Çalıştayı, İzmir, Turkey, 26 March 2015, pp.35-44

- **Güneş İzleyici**

ÖMER ALP E., ENGİN M., ENGİN D.

Proje Tabanlı Mekatronik Eğitimi Çalıştayı, Sinop, Turkey, 22 - 24 May 2014

- **Design of Real Time Embedded PID Controller for Sun Tracking Robot Manipulator**

Engin M., Engin D.

IEEE/ASME International Conference on Advanced Intelligent Mechatronics (AIM), Besançon, France, 8 - 11 July 2014, pp.670-675

- **Optimization Mechatronic Sun Tracking System Controller's for Improving Performance**

Engin M., Engin D.

10th IEEE International Conference on Mechatronics and Automation (ICMA), Takamatsu, Japan, 4 - 07 August 2013, pp.1108-1112

- **Auto-tuning of PID Parameters with Programmable Logic Controller**

Engin D., Engin M.

10th IEEE International Conference on Mechatronics and Automation (ICMA), Takamatsu, Japan, 4 - 07 August 2013, pp.1469-1474

- **Simulation Modelling of a Photovoltaic and Thermal Collector PV T hybrid system**

Engin M., Engin D.

6th International Ege Energy Symposium and Exhibition Proceedings, İzmir, Turkey, 28 - 30 June 2012, pp.471-482

- **PATH PLANNING OF LINE FOLLOWER ROBOT**

Engin M., Engin D.

5th European DSP Education and Research Conference (EDERC), Amsterdam, Netherlands, 13 - 14 September 2012, pp.1-5

- **SUN TRACKING CONTROL STRATEGY FOR IMPROVED RELIABILITY AND PERFORMANCE**

Engin M., Engin D.

5th European DSP Education and Research Conference (EDERC), Amsterdam, Netherlands, 13 - 14 September 2012, pp.85-89

- **Photovoltaic and Thermal Collector PV T hybrid system s performance analysis under the mild climate conditions of İzmir city**

Engin D., Çolak M.

5th European Conference PV-Hybrid and Mini-Grid, Tarragona, Spain, 29 - 30 April 2010, pp.118-125

- **Photovoltaic and Thermal Collector PV T Hybrid System s Performance Optimization**

ENGİN D., ÇOLAK M.

Eurosun 2006 Conference, 27 - 30 June 2006

- **Söke için güneş rüzgar hibrid enerji üretim sisteminin boyutlandırılması**

Engin M., Engin D., Başark C.

VI. Türk-Alman Enerji Sempozyumu, İzmir, Turkey, 6 - 10 June 2001, pp.489-492

Other Publications

- **Sayısal Elektronik**

ENGİN M., ENGİN D.

Lecture Note, pp.269, 2018

- **Süreç Ölçümleri**

ENGİN D.

Lecture Note, pp.158, 2015

- **Programlanabilir Mantık Denetleyiciler**

ENGİN D.

Lecture Note, pp.92, 2012

- **Dönüştürücü Tasarımı**

ENGİN D.

Lecture Note, pp.84, 2010

Supported Projects

ENGİN D., PINAR S., CANDAN M., ENGİN M., Project Supported by Higher Education Institutions, ETHERNET TCP/IP TABANLI DAĞITIK KONTROL SİSTEMLERİNDEN İZLEME VE KONTROL TASARIMI VE UYGULAMASI, 2018 - 2020

Engin D., Engin M., Pınar S., Candan M., Project Supported by Higher Education Institutions, Ethernet TCP/IP Tabanlı Dağıtık Kontrol Sistemlerinde İzleme ve Kontrol Tasarımı ve Uygulaması, 2018 - 2020

Engin D., Balcı M. E. , TUBİTAK Project, Evirici Devreli Dağıtık Üretim Tesislerinin Güç Sistemlerine Azami Katılımı İçin Optimal Pasif Harmonik Filtre Boyutlandırma Ve Yerleştirme Algoritması Geliştirmek, 2017 - 2019

Pınar S., Engin D., İşler H., Harmanşah C., Demir B., Yeşilay R. B. , Engin M., CB Strateji ve Bütçe Başkanlığı (Kalkınma Bakanlığı) Projesi, Toplum İçin Teknik Eğitim ve Kadın İstihdamının Desteklenmesi, 2014 - 2015

Engin M., Engin D., Selek M. B. , Project Supported by Higher Education Institutions, PV Sistemlerin Performansının İnternet Üzerinden Görüntülenmesi ve Denetimi, 2010 - 2014

Engin D., Engin M., Project Supported by Higher Education Institutions, Ultrasonik Transmitter ile SCADA Uyumlu PLC Kullanılarak Seviye Kontrolünü Sağlayan Bir Sistemin Tasarımı ve Uygulanması, 2009 - 2013

Activities in Scientific Journals

TURKISH JOURNAL OF ELECTRICAL ENGINEERING & COMPUTER SCIENCES, Editor, 2017 - 2017

Memberships / Tasks in Scientific Organizations

IEEE, Member, 2013 - 2018

Scientific Consultations

TÜBİTAK EEEAG, Project Consultancy, Ege University, Turkey, 2017 - 2019

Tasks In Event Organizations

Engin D., Meslek Yüksekokullarında Mekatronik Eğitimi Çalıştayı, Workshop Organization, İzmir, Turkey, Mart 2015

Engin D., II. Ulusal Havacılık Teknolojisi ve Uygulamaları Kongresi UHAT 2013, Scientific Congress, İzmir, Turkey, Kasım 2013

Engin D., I. Ulusal Havacılık Teknolojisi ve Uygulamaları Kongresi UHAT 2012 , Scientific Congress, İzmir, Turkey, Aralık 2012

Scientific Research / Working Group Memberships

Invited Congress and Symposium Activities

- 5th Mediterranean Conference on Embedded Computing (MECO), Bar, Karadağ, Working Group, Podgorica, Serbia And Montenegro, 2016
- SolarTR 2014 Conference & Exhibition, Working Group, İzmir, Turkey, 2014
- Advanced Intelligent Mechatronics (AIM), 2014 IEEE/ASME International Conference, Working Group, Besançon, France, 2014
- II. Ulusal Havacılık Teknolojisi ve Uygulamaları Kongresi UHAT 2013, Working Group, İzmir, Turkey, 2013
- IEEE International Conference on Mechatronics and Automation (ICMA 2013), Working Group, Takamatsu, Japan, 2013
- IEEE International Conference on Mechatronics and Automation (ICMA 2013), Session Moderator, Takamatsu, Japan, 2013
- I. Ulusal Havacılık Teknolojisi ve Uygulamaları Kongresi UHAT 2012, Working Group, İzmir, Turkey, 2012
- 5th European DSP in Education and Research Conference, Working Group, Amsterdam, Netherlands, 2012
- 6th International Ege Energy Symposium and Exhibition, Working Group, İzmir, Turkey, 2012
- VI. Ulusal Hidrolik Pnömatik Kongresi ve Sergisi, Working Group, İzmir, Turkey, 2011
- MSP430/Stellaris Workshops Turkey, Working Group, Ankara, Turkey, 2011
- 5th European Conference PV-Hybrid and Mini-Grid, Working Group, Tarragona, Spain, 2010
- VII. Ulusal Ölçümbilim Kongresi, Working Group, İzmir, Turkey, 2008
- V. Ulusal Hidrolik Pnömatik Kongresi ve Sergisi, Working Group, İzmir, Turkey, 2008
- IV. Ulusal Hidrolik Pnömatik Kongresi ve Sergisi, Working Group, İzmir, Turkey, 2005

Citations

Total Citations (WOS):27
h-index (WOS):3

Scholarships

YÖK-Dünya Bankası Meslek Yüksekokulları Endüstriyel Eğitim Projesi, World Bank, 1990 - 1991

Awards

- Engin D., Çolak M., TÜBİTAK Türkiye Adresli Uluslararası Bilimsel Yayınları Teşvik (UBYT) Programı, Tübitak, January 2017
- Engin D., Engin M., Yayın teşvik, Tübitak Türkiye Adresli Uluslararası Bilimsel Yayınları Teşvik (Ubyt) Programı, March 2014