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Personal Information

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Education Information

Doctorate, Erciyes Üniversitesi, Fen Bilimleri Enstitüsü, Makine Mühendisliği, Turkey 2002 - 2008

Post Graduate, Erciyes Üniversitesi, Fen Bilimleri Enstitüsü, Makine Mühendisliği, Turkey 1997 - 2000

Under Graduate, Yıldız Teknik Üniversitesi, -----, Makine Mühendisliği Bölümü, Turkey 1991 - 1996

Foreign Languages

English, B2 Upper Intermediate

Certificates, Courses and Trainings

Other, Model Uçak Sertifikası, Türk Hava Kurumu, 2012

Education Management and Planning, Havacılıkta İnsan Faktörleri, Türk Hava Yolları, 2010

Other, Sivil Havacılık Güvenlik Eğitimi, Erciyes Üniversitesi SHYO-Kayseri Erkilet Havaalanı Şube Müdürlüğü, 2010

Education Management and Planning, Proje Yönetimi, TÜBİTAK, 2006

Education Management and Planning, MSC.ADAMS, BIAS, 2005

Education Management and Planning, Eğiticilerin Eğitimi, Türk Hava Yolları, 2005

Education Management and Planning, MATLAB Fundamentals and Programming Techniques, FİGES, 2005

Education Management and Planning, Modelling Dynamic Systems with SIMULINK, FİGES, 2005

Health&Medicine, İlk Yardım Uygulamaları, Erciyes Üniversitesi-Tıp Fakültesi, 2003

Education Management and Planning, Nato-RTO Destekli Havacılık Semineri, Erciyes Ün. SHYO-NATO, 2002

Education Management and Planning, Temassız Algılayıcılar, Festo, 1998

Education Management and Planning, Programlanabilir Lojik Kontrol Organları, Festo, 1998

Education Management and Planning, Servopnömatik, Festo, 1998

Education Management and Planning, Temel ve İleri Elektropnömatik, Festo, 1998

Education Management and Planning, Temel Seviye Pnömatik, Festo, 1998

Education Management and Planning, Hafif Uçak Tasarımı, Erciyes Üniversitesi-Sivil Havacılık YO.(Prof.Dr.Jean Marie Klinka), 1996

Dissertations

Doctorate, Çok Serbestlik Dereceli Düzlemsel İş Tablası ve Tabla Üzerinde Hareket Eden Robotun Eş Zamanlı Manipülasyonu ve Gerçek Zamanlı Kontrolü, Erciyes Üniversitesi, Fen Bilimleri Enstitüsü, Makine Mühendisliği, 2008

Research Areas

Technical Sciences, Mechanical Engineering, Construction and Manufacturing, Computer Aided Design and Manufacturing, Machine Theory and Dynamics, Robotics, Mechatronics

Academic Titles / Tasks

Assistant Professor, Erciyes Üniversitesi, Sivil Havacılık Yo., Uçak Gövde-Motor, 2018 - Continues

Assistant Professor, Erciyes Üniversitesi, Sivil Havacılık Yo., Uçak Gövde-Motor, 2009 - 2018

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

- **Aircraft wing design at low speeds using Taguchi method**
SOYLAK M., Gokce N. K. , TOPAL E. S.
AIRCRAFT ENGINEERING AND AEROSPACE TECHNOLOGY, vol.90, pp.51-55, 2018 (Journal Indexed in SCI)
- **A simulation-based method using artificial neural networks for solving the inverse kinematic problem of articulated robots**
SOYLAK M., Oktay T., TÜRKMEN I.
PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART E-JOURNAL OF PROCESS MECHANICAL ENGINEERING, vol.231, pp.470-479, 2017 (Journal Indexed in SCI)
- **Novel device for creating continuous curvilinear capsulorhexis**
SOYLAK M.
SPRINGERPLUS, vol.5, 2016 (Journal Indexed in SCI)
- **A novel real-time control system for plasma cutting robot with xPC target**
SOYLAK M.
ADVANCES IN MECHANICAL ENGINEERING, vol.8, 2016 (Journal Indexed in SCI)

Articles Published in Other Journals

- **A NOVEL MECHATRONIC SYSTEM DEVELOPMENT FOR ROBOTIC EYEGLASS FRAMES POLISHING**
Soylak M.
INTERNATIONAL JOURNAL OF ADVANCED RESEARCH AND REVIEW (IJARR), vol.5, pp.56-61, 2020
(Refereed Journals of Other Institutions)
- **DEVELOPING A GRIPPER USING SHAPE MEMORY ALLOY (SMA)**
Soylak M.
International Journal of Advanced Research and Review, vol.5, pp.80-85, 2020 (Refereed Journals of Other Institutions)
- **Development of a New Fixing Nail for Long Bone Fractures**
Soylak M.
Bilecik Şeyh Edebali Üniversitesi Fen Bilimleri Dergisi, vol.7, pp.363-369, 2020 (National Refreed University Journal)
- **Development of a Novel Helmet System to Prevent Head and Neck Injuries**
Soylak M.
European International Journal of Science and Technology, vol.9, pp.56-60, 2020 (Refereed Journals of Other Institutions)
- **Development of a Novel Mechanism for Early Stage Keratoconus Identification System (ESKIS)**
Soylak M.
European International Journal of Science and Technology, vol.9, pp.30-40, 2020 (Refereed Journals of Other Institutions)
- **Design of a Novel Articulated Hand Erciyes 1**
SOYLAK M.

Karaelmas Fen ve Mühendislik Dergisi, vol.6, pp.71-77, 2016 (Refereed Journals of Other Institutions)

- **Autonomous Flight Performance Improvement of Load Carrying Unmanned Aerial Vehicles by Active Morphing**

OKTAY T., KONAR M., MOHAMED M. A. , AYDIN M., ŞAL F., ONAY M., SOYLAK M.

International Journal of Mechanical, Aerospace, Industrial, Mechatronic and Manufacturing Engineering, vol.10, pp.123-132, 2016 (Refereed Journals of Other Institutions)

- **Increasing Performance of Autopilot Guided Small Unmanned Helicopter**

OKTAY T., KONAR M., SOYLAK M., ŞAL F., ONAY M., Kızılkaya O.

International Journal of Mechanical, Aerospace, Industrial, Mechatronic and Manufacturing Engineering, vol.10, pp.133-139, 2016 (Refereed Journals of Other Institutions)

Refereed Congress / Symposium Publications in Proceedings

- **Location Control in Air Vehicles Using Pneumatic Artificial Muscles and Investigation of the Thermal Changes and Positioning Accuracy**

Soylak M., Bakır M.

3. International Conference on Materials Science, Mechanical and Automotive Engineering and Technology (IMSMATEC'20), Nevşehir, Turkey, 24 - 26 June 2020, pp.39-42

- **Human Factor in Engineering**

Soylak M.

3. International Conference on Materials Science, Mechanical and Automotive Engineering and Technology (IMSMATEC'20), Nevşehir, Turkey, 24 - 26 June 2020, pp.267-270

- **SCARA ROBOT VE CNC İŞ TABLASININ DİNAMİK KARAKTERİSTİKLERİNİN BELİRLENMESİ**

Soylak M., Uzmay İ., Burkan R.

II. ULUSLARARASI 23 NİSAN BİLİMSEL ÇALIŞMALAR KONGRESİ, Ankara, Turkey, 23 - 26 April 2020, vol.1, pp.112-121

- **KALITE GELİŞTİRMEDE DENEYSEL TASARIM VE NORMAL OLASILIK GRAFIĞI (NOG) KULLANARAK TAGUCHI YÖNTEMİ UYGULAMASI**

Soylak M., Canbulut F.

2. ULUSLARARASI 23 NİSAN BİLİMSEL ÇALIŞMALAR KONGRESİ, Ankara, Turkey, 23 - 26 April 2020, vol.1, pp.102-111

- **Effects Of Ice Accretion On The Wind Turbine Airfoil**

Genç G., Yıldırım C., Genç M. S. , Soyлак M.

The International Symposium on Sustainable Aviation (ISSA-2016), İstanbul, Turkey, 29 May - 01 June 2016, pp.270-273

- **RIVET SELECTION FOR AIRCRAFT BULKHEADS WITH TAGUCHI METHOD**

SOYLAK M., ÇAPKURT M.

2nd International Symposium on Sustainable Aviation (ISSA 2016), İstanbul, Turkey, 29 April - 01 May 2016, vol.1, pp.69-72

- **Increasing Performance of Autopilot Guided Small Unmanned Helicopter**

OKTAY T., KONAR M., SOYLAK M., ŞAL F., ONAY M., KIZILKAYA O.

18th International Conference on Aerospace, Mechanical, Automotive and Materials Engineering (ICAMAME 2016), Dubai, United Arab Emirates, 28 - 29 January 2016

- **Autonomous Flight Performance Improvement of Load carrying Unmanned Aerial Vehicles by Active Morphing**

OKTAY T., KONAR M., mohamed m. a. , AYDIN M., ŞAL F., ONAY M., SOYLAK M.

ICUAST 2016 : 18th International Conference on Unmanned Aircraft Systems and Technology, Zürich, Switzerland, 12 - 13 January 2016

- **Havaaracı pervane sistemlerinde PID kontrol organı ile hatve açısı konum kontrolü**

SOYLAK M., UZMAY İ., DEMİRTAŞ H.

Kayseri VI. Havacılık Sempozyumu, Kayseri, Turkey, 12 - 14 May 2006, vol.1, pp.262-265

- **Bir kanat profilinde değişik Reynold sayıları için uygun hücum açısının Yapay Sinir Ağları ile Belirlenmesi**

ERLER M., DEMİRTAŞ H., SOYLAK M.

Kayseri 6. Havacılık Sempozyumu, Nevşehir, Turkey, 12 - 14 May 2006, pp.601-607

- **Biyomekanik El Tasarım İlkeleri**

SOYLAK M., UZMAY I.

12. Ulusal Makina Teorisi Sempozyumu (UMTS 2005), Kayseri, Turkey, 9 - 11 June 2005, vol.2, pp.565-572

- **Servopnömatik pozisyonlama sistemi ve bir uygulama**

SOYLAK M.

Kayseri 5. Havacılık Sempozyumu, Kayseri, Turkey, 13 - 14 May 2004, vol.1, pp.310-313

- **Hava aracı tasarımında CAD programları ve parametrik modelleme**

SOYLAK M., Tutkun M.

Uluslar arası katılımlı Kayseri IV. Havacılık Sempozyumu, Kayseri, Turkey, 13 - 15 May 2002, vol.1, pp.124-126

Supported Projects

SOYLAK M., BAKIR M., Project Supported by Higher Education Institutions, Yapay kaslar kullanarak hava araçlarında konum kontrolü, 2016 - 2019

SOYLAK M., UZUN M., GENÇ M. S. , Project Supported by Higher Education Institutions, MİKRO HAVA ARAÇLARINDA YUNUSLAMA HAREKETİ SONUCU OLUŞAN AERODİNAMİK PARAMETRELERİN ROBOTİK SİSTEMDE TESPİTİ, 2013 - 2015

AKMERMER S., SOYLAK M., BURKAN R., Project Supported by Higher Education Institutions, CNC DİK İŞLEME TEZGAHLARI HAREKET KONTROLÜNDE ROBUST KONTROL YAKLAŞIMININ DENEYSEL İNCELENMESİ, 2007 - 2013

UZMAY İ., SOYLAK M., Project Supported by Higher Education Institutions, 3 SERBESTLİK DERECELİ DÜZLEMESİ İŞ TABLASI VE MOBİL SCARA ROBOTUN ORTAK MANİPULASYONU VE KONTROLÜ., 2005 - 2007

GÜNEY K., SOYLAK M., DEMİRTAŞ H., BUZ Z., ERLER M., AKSU Ö., Project Supported by Higher Education Institutions, UÇUŞ SİMİLATORÜ TASARIMI VE UYGULAMASI, 2004 - 2007

UZMAY İ., ESKİ İ., SOYLAK M., YILMAZ M., Project Supported by Higher Education Institutions, ÇOK SERBESTLİK DERECELİ PROTEZ EL TASARIM, İMALAT VE KONTROLÜ, 2004 - 2007

Patent

SOYLAK M., Yatar daire testere makinelerinde operatör güvenliği elektromekanik sistemi., Utility patents, CHAPTER F Mechanical engineering; Lighting; Heating; Weaponry; Destroyed Materials, Initial Registration, 2009

Memberships / Tasks in Scientific Organizations

Kocaeli Üniversitesi, Member, 2016 - 2016

Scientific Refereeing

Turkish Journal of Electrical Engineering and Computer Sciences, SCI Journal, October 2010

Citations

Total Citations (WOS):6

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