

## Lect. PhD ASLI SOYIÇ LEBLEBİCİ

### Personal Information

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### International Researcher IDs

ORCID: 0000-0001-7346-5368

ScopusID: 57196086975

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### Education Information

Doctorate, Eskişehir Technical University, Institute of Graduate Programs, Electrical and Electronics Engineering, Turkey  
2022 - 2024

Postgraduate, Anadolu University, Institute Of Science, Kontrol Ve Kumanda Sistemleri (YI) (Tezli) (İngilizce), Turkey  
2007 - 2009

### Foreign Languages

English, B1 Intermediate

### Certificates, Courses and Trainings

Vocational Course, RAYLI SİSTEMLERDE TİTREŞİM VE GÜRÜLTÜ, ANADOLU ÜNİVERSİTESİ ULAŞTIRMA MESLEK  
YÜKSEKOKULU, 2017

Vocational Course, ANSYS Mechanical Giriş Eğitimi, FİGES A.Ş. ARGE Merkezi, 2016

Vocational Training, TEMEL SEVİYE CODESYS, FESTO DIDACTIC, 2016

Vocational Training, SERVO MOTOR VE SÜRÜCÜLERİ, FREKANS KONVERTÖRÜ VE ASENKRON MOTORLAR, FESTO  
DIDACTIC, 2012

Vocational Training, TEMEL SEVİYE S7-1200 VE OPERATÖR PANELLERİ, FESTO DIDACTIC, 2012

Vocational Training, TEMEL ELEKTROPNÖMATİK, TEMEL ELEKTROHİDROLİK, EASYPORT KULLANIMI, FESTO DİDAKTİK,  
2012

### Dissertations

Postgraduate, Multiobjective output feedback control via LMI optimization and quarter-car active suspension system,  
Anadolu University, Institute Of Science, 2009

### Research Areas

Simulation, Modelling and Identification, Controllers, Industrial automation, Control Systems and Instrumentation,  
Optimal Control, Mechatronic Systems, System Dynamics and Control, Vehicle Systems Dynamics

## Academic Titles / Tasks

Lecturer, Eskisehir Osmangazi University, Eskişehir Meslek Yüksekokulu, Elektronik ve Otomasyon, 2012 - Continues

## Courses

INDUSTRIAL AUTOMATION - A, Associate Degree, 2022 - 2023  
ANALOGUE ELECTRONICS, Associate Degree, 2022 - 2023  
MEKATRONİĞİN TEMELLERİ, Associate Degree, 2017 - 2018, 2016 - 2017  
SAYISAL ELEKTRONİK, Associate Degree, 2017 - 2018, 2016 - 2017  
ENDÜSTRİYEL OTOMASYON, Associate Degree, 2017 - 2018, 2016 - 2017  
ENDÜSTRİYEL OTOMASYON-A, Associate Degree, 2017 - 2018  
PROGRAMLANABİLİR MANTIK DENETLEYİCİLERİ-A, Associate Degree, 2017 - 2018  
ENDÜSTRİYEL UYGULAMALAR-II, Associate Degree, 2017 - 2018  
ELEKTRİK MOTORLARI VE SÜRÜCÜLERİ, Associate Degree, 2017 - 2018  
ENDÜSTRİYEL UYGULAMALAR-I, Associate Degree, 2017 - 2018  
ENDÜSTRİYEL OTOMASYON-B, Associate Degree, 2017 - 2018  
PROGRAMLANABİLİR MANTIK DENETLEYİCİLERİ-B, Associate Degree, 2017 - 2018  
PROGRAMLANABİLİR MANTIK DENETLEYİCİLERİ, Associate Degree, 2017 - 2018, 2016 - 2017  
PROJE, Associate Degree, 2017 - 2018, 2016 - 2017  
ALGILAYICILAR VE EYLEYİCİLER, Associate Degree, 2016 - 2017  
İŞ ETİĞİ, Associate Degree, 2016 - 2017  
RAYLI SİSTEMLERDE MEKATRONİK, Associate Degree, 2016 - 2017

## Articles Published in Other Journals

- I. **Petri Net Modeling and Controller Design of Unistar CSV24 Point Machine**  
SOYİÇ LEBLEBİCİ A.  
Demiryolu Mühendisliği, 2023 (Peer-Reviewed Journal)
- II. **On the Dynamic Analysis of Freight Wagon-Track Interaction**  
SOYİÇ LEBLEBİCİ A., TÜRKAY S.  
Demiryolu Mühendisliği, 2023 (Peer-Reviewed Journal)

## Refereed Congress / Symposium Publications in Proceedings

- I. **Suppression of the Flexural Vibration of the Railway Car Body Floor**  
SOYİÇ LEBLEBİCİ A., Trkay S.  
16th IFAC Symposium on Control in Transportation Systems CTS 2021, Lille, France, 8 - 10 June 2021, vol.54, pp.153-158
- II. **Hybrid Control for Semi-Active Suspension Design of a Railway Vehicle**  
SOYİÇ LEBLEBİCİ A., Turkay S.  
21st IEEE International Carpathian Control Conference, ICC3 2020, Virtual, Kosice, Slovakia, 27 - 29 October 2020
- III. **Vibration Control of a Rigid and Flexible High-Speed Railway Vehicle**  
TÜRKAY S., SOYİÇ LEBLEBİCİ A.  
2020 ASME/IEEE Joint Rail Conference, 20 - 22 April 2020
- IV. **On the optimization of the semi-active suspension for a railway vehicle**  
SOYİÇ LEBLEBİCİ A., Türkay S.  
21st IFAC World Congress 2020, Berlin, Germany, 12 - 17 July 2020, vol.53, pp.8494-8499

- V. **Hızlı Bir Yolcu Treni için Statik-Çıktı-Geri Beslemeli Kontrolcü Tasarımı**  
SOYİÇ LEBLEBİCİ A., TÜRKAY S.  
OTOMATİK KONTROL TÜRK MİLLİ KOMİTESİ ULUSAL TOPLANTISI TOK'xx2019, Turkey, 11 - 14 September 2019
- VI. **The Track Roughness Effect on the Actively Controlled Railway Vehicle**  
SOYİÇ LEBLEBİCİ A., Turkey S.  
27th Mediterranean Conference on Control and Automation, Akko, Israel, 1 - 04 July 2019, pp.368-373
- VII. **Hızlı Demiryolu Treni İçin Yarı-Aktif Hibrit Kontrolcu Tasarımı**  
SOYİÇ LEBLEBİCİ A., TÜRKAY S.  
2018 Otomatik Kontrol Ulusal Toplantı, Kayseri, Turkey, 12 - 14 September 2018
- VIII. **H2 Controller Design for Flexible and Rigid Bodied Railway Vehicles**  
SOYİÇ LEBLEBİCİ A., TÜRKAY S.  
The 14th IEEE International Conference on Control and Automation, Anchorage, United States Of America, 12 - 15 June 2018, pp.411-416
- IX. **High-Speed Railway Vehicle Based On A Sky And Ground-hook Control Algorithms**  
TÜRKAY S., SOYİÇ LEBLEBİCİ A.  
10.th UIC World Congress on High Speed Rail, Ankara, Turkey, 8 - 11 May 2018
- X. **An H-infinity and Skyhook Controller Design for a High Speed Railway Vehicle**  
SOYİÇ LEBLEBİCİ A., TÜRKAY S.  
15th International-Federation-of-Automatic-Control (IFAC) Symposium on Control in Transportation Systems (CTS), Italy, 6 - 08 June 2018, vol.51, pp.156-161
- XI. **Rail Track Modelling by Using Identification and Curve Fitting Techniques**  
TÜRKAY S., SOYİÇ LEBLEBİCİ A., AKÇAY H.  
29th Irish Signals and Systems Conference (ISSC), Belfast, United Kingdom, 21 - 22 June 2018
- XII. **The Influence of the Track Rognness Parameter on the Actively Controlled Railway Vehicle**  
SOYİÇ LEBLEBİCİ A., TÜRKAY S.  
International Symposium on Electrical Railway Transportation Systems 2017, 27 - 28 October 2017
- XIII. **An H~ controller design for railway vehicle**  
SOYİÇ LEBLEBİCİ A., TÜRKAY S.  
Türkiye Otomatik Kontrol Konferansı (TOK 2017), Turkey, 21 - 23 September 2017
- XIV. **Inuence of Wheel-Rail Contact Stinesson the H2 Controlled Active SuspensionDesign**  
SOYİÇ LEBLEBİCİ A., TÜRKAY S.  
20th IFAC World Congress 2017, 9 - 14 July 2017
- XV. **Control Design for a High Speed Railway Vehicle via Fixed and Non-Fixed Order Optimization**  
SOYİÇ LEBLEBİCİ A., TÜRKAY S.  
2017 12th IEEE Conference on Industrial Electronics and Applications(ICIEA2017), 18 - 20 June 2017
- XVI. **FIXED-ORDER CONTROLLER DESIGN FOR A HIGH SPEED RAILWAY VEHICLE**  
Turkey S., SOYİÇ LEBLEBİCİ A., AKÇAY H.  
ASME Joint Rail Conference (JRC 2017), Pennsylvania, United States Of America, 4 - 07 April 2017
- XVII. **Influence of Wheel-Rail Contact Stiffness on the H-2 Controlled Active Suspension Design**  
SOYİÇ LEBLEBİCİ A., TÜRKAY S.  
20th World Congress of the International-Federation-of-Automatic-Control (IFAC), Toulouse, France, 9 - 14 July 2017, vol.50, pp.3642-3647
- XVIII. **Hızlı Yolcu Treni için Pasif Süspansiyon ParametrelerininSürüş Performansı Üzerine Etkisi**  
SOYİÇ LEBLEBİCİ A., TÜRKAY S.  
Otomatik Kontrol Ulusal Toplantısı 2016 (TOK2016), Turkey, 29 September - 01 October 2016
- XIX. **Effect of Multi-Objective Control on RideQuality in High Speed Railway Vehicle**  
TÜRKAY S., SOYİÇ LEBLEBİCİ A.  
14-th IFAC Symposium on Control in Transportation Systems, 18 - 20 May 2016
- XX. **Track Modelling and Control of a Railway Vehicle**  
SOYİÇ LEBLEBİCİ A., TÜRKAY S.  
7th IFAC Symposium on Mechatronic Systems (MECHATRONICS), Leicester, United Kingdom, 5 - 08 September

2016, vol.49, pp.274-281

**XXI. Yüksek Hızlı Raylı Taşıtlarda Rassal Titreşim Karakteristikleri için LQG Kontrolü**

LEBLEBİCİ A., TÜRKAY S.

OTOMATİK KONTROL ULUSAL TOPLANTISI, 2015 (TOK'2015), Turkey, 10 - 12 September 2015

**XXII. NuSMV MODEL DENETLEYİCİ İLE DOĞRULANAN MAKAS MOTORU MODELİNİN PLC İLE GERÇEKLENMESİ**

LEBLEBİCİ A., TÜRKAY S.

OTOMATİK KONTROL ULUSAL TOPLANTISI, 2014 (TOK2014), Kocaeli, Turkey, 11 - 13 September 2014

**XXIII. MAKAS MOTORUNUN PETRİ AĞI İLE MODELLENMESİ VE MODELİN SPIN İLE DOĞRULANMASI**

SOYİÇ LEBLEBİCİ A., TÜRKAY S.

OTOMATİK KONTROL ULUSAL TOPLANTISI, 2013 (TOK2013), Turkey, 26 - 28 September 2013

## Supported Projects

Soyiç Leblebici A., Türkay S., Project Supported by Higher Education Institutions, Yüksek Hızlı Yolcu Treni için Rassal Ray Profili Modellemesi, 2019 - 2020

## Scientific Refereeing

IFAC World Congress 2020, Conference Paper (Full Text), December 2019

Otomatik Kontrol Türk Milli Komitesi Ulusal Kongresi TOK2019, Conference Paper (Full Text), August 2019

International Journal of Science and Technology, Other Indexed Journal, July 2019

IEEE INTELLIGENT TRANSPORTATION SYSTEMS CONFERENCE - ITSC 2019, Conference Paper (Full Text), May 2019

## Metrics

Publication: 25

Citation (WoS): 14

Citation (Scopus): 23

H-Index (WoS): 2

H-Index (Scopus): 3

## Non Academic Experience

Savronik Sistem Taah. San. Tic. A.Ş.

Eskişehir Arıkan Kriko ve Mak. San. Tic. A.Ş.