

## Assoc. Prof. GÜNYAZ ABLAY

### Personal Information

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**Web:** <https://people.agu.edu.tr/gunyazablay>

### Biography

2013 yılının başından beri Abdullah Gül Üniversitesinde öğretim üyesi olarak görev yapmaktayım. AGÜ Elektrik-Elektronik Mühendisliğinin kurucularından biriyim. Doktora ve yüksek lisans derecelerimi Ohio State University (ABD), Nükleer Mühendislik Bölümünden aldım. Yine Fırat Üniversitesi, Elektrik-Elektronik Mühendisliği bölümünden yüksek lisans ve lisans derecelerine sahibim. Amerikanın saygın araştırma laboratuvarları olan Oak Ridge and Idaho National Laboratuvarlarında modelleme, deney ve veri doğrulama üzerine burslu araştırmalar yaptım. Adalet bakanlığının çeşitli kurumlarında elektrik-elektronik mühendisi ve teknik personal olarak uzun yıllar çalıştım. Akademik araştırma alanlarım, kontrol teorisi ve uygulamaları, robotik, mikro-robotik, nükleer teknoloji, kaos teorisi ve karmaşıklık ve gömülü sistemler konularını içermektedir. [Turkish Automatic Control Society \(TOK\)](#) (Türkiye otomatik kontrol toplantısı), [IEEE Control Systems Society \(CSS\)](#) ve [The Institute of Electrical and Electronics Engineers \(IEEE\)](#) organizasyonlarında aktif bir üye olarak görev almaktayım.

### Education Information

Doctorate, Ohio State University, College Of Engineering, Nuclear Engineering, United States Of America 2009 - 2012

Masters Without Thesis, Ohio State University, College Of Engineering, Nuclear Engineering, United States Of America 2009 - 2011

Post Graduate, Fırat Üniversitesi, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, Turkey 2004 - 2006

Under Graduate, Fırat Üniversitesi, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, Turkey 2000 - 2004

### Foreign Languages

English, C1 Advanced

### Certificates, Courses and Trainings

Foreign Language, Masters Level Foreign Language, ELS Language Centers, 2008

### Dissertations

Doctorate, Sliding Mode Approaches for Robust Control, State Estimation, Secure Communication, and Fault Diagnosis in Nuclear Systems, Ohio State University, College Of Engineering, Nuclear Engineering, 2012

Post Graduate, Belirsizlik İçeren Doğrusal Olmayan Sistemlerin Gözleyici Temelli Durum Geribeslemeli Kontrolü, Fırat Üniversitesi, Fen Bilimleri Enstitüsü, Elektrik-Elektronik Mühendisliği, 2006

## Research Areas

Information Systems, Communication and Control Engineering, Electrical and Electronics Engineering, Engineering and Technology

## Academic Titles / Tasks

Associate Professor, Abdullah Gül Üniversitesi, Mühendislik Ve Doğa Bilimleri Fak., Elektrik-Elektronik Mühendisliği Bölümü, 2017 - Continues

Assistant Professor, Abdullah Gül Üniversitesi, Mühendislik Ve Doğa Bilimleri Fak., Elektrik-Elektronik Mühendisliği Bölümü, 2013 - 2017

Research Assistant, Ohio State University, College Of Engineering, Nuclear Engineering, 2009 - 2012

## Professional Experience

Fakülte Yönetim Kurulu Üyesi, Abdullah Gül Üniversitesi, 2016 - Continues

Fakülte Kurulu Üyesi, Abdullah Gul University, Mühendislik Fakültesi, 2016 - Continues

Farabi Coordinator, Abdullah Gül Üniversitesi, 2014 - Continues

Coordinator of Faculty Training Program, Abdullah Gül Üniversitesi, 2013 - 2015

Mühendis, Adalet Bakanlığı, 2006 - 2007

## Courses

Senior Design Project, Under Graduate, 2018 - 2019

Introduction to Robotics, Under Graduate, 2019 - 2020

Linear Systems, Post Graduate, 2019 - 2020

Nonlinear Dynamics and Chaos, Doctorate, 2019 - 2020

Ms Thesis, Post Graduate, 2018 - 2019

Electric Circuits 2, Under Graduate, 2018 - 2019

Senior Design Project, Under Graduate, 2019 - 2020

Feedback Control Systems, Under Graduate, 2019 - 2020

PhD Thesis, Doctorate, 2019 - 2020

Feedback Control systems, Under Graduate, 2016 - 2017, 2017 - 2018

Exploring Profession, Under Graduate, 2016 - 2017, 2017 - 2018

Introduction to Robotics, Under Graduate, 2017 - 2018

Introduction to Robotics, Doctorate, 2017 - 2018

Applied Programmable Logic Controllers, Under Graduate, 2017 - 2018

Introduction to Robotics, Post Graduate, 2017 - 2018

Exploring Profession, Under Graduate, 2017 - 2018

Applied Programmable Logic Controllers, Under Graduate, 2016 - 2017

Control Theory, Under Graduate, 2016 - 2017

Sliding Mode Control Theory and Applications, Doctorate, 2016 - 2017

Linear Systems, Doctorate, 2014 - 2015, 2016 - 2017

Electronic Instrumentation and Measurements, Post Graduate, 2014 - 2015

Nonlinear Control, Doctorate, 2014 - 2015

Linear Systems, Post Graduate, 2013 - 2014

Nonlinear Dynamics and Chaos, Post Graduate, 2013 - 2014

## Advising Theses

Ablay G., İçöz K., Designing a system to manipulate micro magnetic beads and cells, Post Graduate, M.BÖYÜK(Student), 2018

ABLAY G., Sliding Mode and PID Based Tracking Control of Magnetic Levitation Plant and HIL Tests, Post Graduate, Y.Eroğlu(Student), 2016

## Jury Memberships

Appointment Academic Staff, Appointment Academic Staff, Abdullah Gül Üniversitesi, August, 2019

Doctoral Examination, Doctoral Examination, Abdullah Gül Üniversitesi, February, 2019

Doctorate, Tez Savunma Jürisi, Erciyes Üniversitesi, November, 2018

Doctoral Examination, Tez Savunma Jürisi, Erciyes Üniversitesi, November, 2018

Post Graduate, Tez Savunma Jürisi, Erciyes Üniversitesi, May, 2018

Doctorate, Doçentlik Sınav Jürisi, Erciyes Üniversitesi, March, 2018

Post Graduate, Tez Savunma Jürisi, Erciyes Üniversitesi, April, 2017

Post Graduate, MSc Thesis Jury Member, Abdullah Gül Üniveritesi, July, 2016

Competition, TÜBİTAK Kontrol Paneli-2, TÜBİTAK, December, 2015

Competition, TÜBİTAK Kontrol Paneli, TÜBİTAK, April, 2015

Academic Staff Examination, Araştırma Görevlisi Alımı, Abdullah Gül Üniversitesi, September, 2013

Appointment Academic Staff, Öğretim Üyeliğine Atama, Abdullah Gül Üniversitesi, July, 2013

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

- **Feedback controller designs for an electromagnetic micromanipulator**  
Boyuk M., Eroglu Y., ABLAY G., İÇÖZ K.  
PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART I-JOURNAL OF SYSTEMS AND CONTROL ENGINEERING, 2019 (Journal Indexed in SCI)
- **Design, modeling, and control of a horizontal magnetic micromanipulator**  
ABLAY G., Boyuk M., İÇÖZ K.  
TRANSACTIONS OF THE INSTITUTE OF MEASUREMENT AND CONTROL, vol.41, pp.3190-3198, 2019 (Journal Indexed in SCI)
- **Robust integral controllers for high-order class-D power amplifiers**  
ABLAY G.  
IET POWER ELECTRONICS, vol.11, pp.593-599, 2018 (Journal Indexed in SCI)
- **Robust tracking controller for SEPIC drivers**  
ABLAY G.  
ELECTRONICS LETTERS, vol.52, pp.2007-2008, 2016 (Journal Indexed in SCI)
- **Cascade sliding mode-based robust tracking control of a magnetic levitation system**  
Eroğlu Y., ABLAY G.  
PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART I-JOURNAL OF SYSTEMS AND CONTROL ENGINEERING, vol.230, pp.851-860, 2016 (Journal Indexed in SCI)
- **Chaotic Map Construction from Common Nonlinearities and Microcontroller Implementations**  
ABLAY G.  
INTERNATIONAL JOURNAL OF BIFURCATION AND CHAOS, vol.26, 2016 (Journal Indexed in SCI)
- **A robust estimator-based optimal algebraic approach to steam generator feedwater control system**  
ABLAY G.  
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.24, pp.206-218, 2016 (Journal Indexed in SCI)
- **Novel chaotic delay systems and electronic circuit solutions**  
Ablay G.

- NONLINEAR DYNAMICS, vol.81, pp.1795-1804, 2015 (Journal Indexed in SCI)  
**Variable structure controllers for unstable processes**  
Ablay G.
- JOURNAL OF PROCESS CONTROL, vol.32, pp.10-15, 2015 (Journal Indexed in SCI)  
**Chaos in PID Controlled Nonlinear Systems**  
Ablay G.
- JOURNAL OF ELECTRICAL ENGINEERING & TECHNOLOGY, vol.10, pp.1843-1850, 2015 (Journal Indexed in SCI)  
**Robust estimator-based optimal control designs for U-tube steam generators**  
Ablay G.
- TRANSACTIONS OF THE INSTITUTE OF MEASUREMENT AND CONTROL, vol.37, pp.636-644, 2015 (Journal Indexed in SCI)  
**Coefficient ratios-based robust sliding surface and integral sliding mode control designs with optimal transient responses**  
Ablay G.
- IET CONTROL THEORY AND APPLICATIONS, vol.8, pp.1896-1904, 2014 (Journal Indexed in SCI)  
**Online Condition Monitoring of Battery Systems With a Nonlinear Estimator**  
Ablay G.
- IEEE TRANSACTIONS ON ENERGY CONVERSION, vol.29, pp.232-239, 2014 (Journal Indexed in SCI)  
**A modeling and control approach to advanced nuclear power plants with gas turbines**  
Ablay G.
- ENERGY CONVERSION AND MANAGEMENT, vol.76, pp.899-909, 2013 (Journal Indexed in SCI)  
**Robust reactivity, neutron source, and precursor estimators for nuclear reactors**  
Ablay G.
- NUCLEAR ENGINEERING AND DESIGN, vol.265, pp.526-533, 2013 (Journal Indexed in SCI)  
**Fault Detection in Nuclear Systems Using Sliding Mode Observers**  
Ablay G., Aldemir T.
- NUCLEAR SCIENCE AND ENGINEERING, vol.173, pp.82-98, 2013 (Journal Indexed in SCI)  
**Chaotic Data Encryption for Long-Distance Monitoring of Nuclear Reactors**  
Ablay G., Koksal C. E. , Aldemir T.
- NUCLEAR SCIENCE AND ENGINEERING, vol.170, pp.27-43, 2012 (Journal Indexed in SCI)  
**OBSERVATION OF THE DYNAMICS OF NUCLEAR SYSTEMS USING SLIDING MODE OBSERVERS**  
Ablay G., Aldemir T.
- NUCLEAR TECHNOLOGY, vol.174, pp.64-76, 2011 (Journal Indexed in SCI)  
**Sliding mode control of uncertain unified chaotic systems**  
Ablay G.
- NONLINEAR ANALYSIS-HYBRID SYSTEMS, vol.3, pp.531-535, 2009 (Journal Indexed in SCI)

## Articles Published in Other Journals

- **Cuk converter control with a robust integral switching controller**  
ABLAY G.  
Journal of Electrical Engineering, vol.18, pp.333-338, 2018 (Refereed Journals of Other Institutions)
- **An interactive control engineering course**  
ABLAY G., ABLAY S.  
International Journal of Scientific Engineering Research, vol.9, pp.104-109, 2018 (Refereed Journals of Other Institutions)
- **Chaotic encryption based data transmission using delta and delta sigma modulators**  
ABLAY G.  
International Journal of Applied Mathematics, Electronics and Computers, vol.4, pp.368-373, 2016 (Refereed Journals of Other Institutions)

- **A chaotic random bit generator with image encryption applications**  
ABLAY G.  
International Journal of Computing Academic Research, vol.5, pp.207-214, 2016 (Refereed Journals of Other Institutions)
- **Robust Chaos Based Random Number Generation for Monte Carlo Simulations**  
ABLAY G.  
International Journal of Computing, Communication and Instrumentation Engineering, vol.3, pp.287-291, 2016 (Refereed Journals of Other Institutions)
- **Belirsizlik içeren ve doğrusal olmayan robot kollarının gürbüz denetimi**  
ABLAY G., Uçar A.  
Anadolu Üniversitesi Bilim ve Teknoloji Dergisi, vol.10, no.2, pp.367-382, 2009 (National Refreed University Journal)

## Books & Book Chapters

- **Elektrik ve Elektronik - Yeni Başlayanlar İçin Rehber Kitap**  
ABLAY G.  
Nobel Akademik Yayıncılık, 2019

## Refereed Congress / Symposium Publications in Proceedings

- **A backstepping based contactless manipulation of a magnetic microparticle**  
ABLAY G., Eroğlu Y., Büyük M., İÇÖZ K.  
International Conference on Material Science and Technology (IMSTEC'19), Ankara, Turkey, 18 - 20 October 2019
- **Geriadımlamal Yaklaşım ile Bir Manyetik Mikromanipülatörün Kontrolü**  
ABLAY G., Eroğlu Y., Büyük M., İÇÖZ K.  
Otomatik Kontrol Ulusal Toplantısı, TOK2019, Turkey, 11 - 14 September 2019, pp.221-224
- **A Magnetic Micromanipulator and its Control**  
ABLAY G., Büyük M., Eroğlu Y.  
International Conference on Human-Computer Interaction, Optimization and Robotic Applications (HORA 2019), Nevşehir, Turkey, 5 - 06 July 2019
- **On the Magnetic Tweezer Design and Modeling**  
ABLAY G., İÇÖZ K., Büyük M., Eroğlu Y.  
International Eurasian Conference on Biological and Chemical Sciences (EURASIANBIOCHEM 2019), Ankara, Turkey, 28 - 29 June 2019
- **Active control of magnetic particles with a horizontal magnetic tweezer**  
ABLAY G., BÖYÜK M., Eroğlu Y., İÇÖZ K.  
International Mediterranean Science and Engineering Congress (IMSEC 2018), Adana, Turkey, 24 - 26 October 2018
- **A horizontal magnetic tweezer for single molecule micromanipulations**  
ABLAY G., BÖYÜK M., Eroğlu Y., İÇÖZ K.  
International Symposium on Multidisciplinary Studies and Innovative Technologies (ISMSIT 2018), Ankara, Turkey, 19 - 21 October 2018
- **Design, analysis and control of electromagnetic micromanipulators**  
ABLAY G.  
International Conference on Multidisciplinary Innovative Engineering Applications (CIEA 2018), 20 - 22 September 2018
- **A robust switching controller for developed dc-dc converters**  
ABLAY G.

- International Scientific and Vocational Studies Congress (BILMES2018), Nevşehir, Turkey, 5 - 08 July 2018  
**Micromanipulation based on electromagnetic actuators**  
ABLAY G., İÇÖZ K., BÖYÜK M.
- International Scientific and Vocational Studies Congress (BILMES2018), Nevşehir, Turkey, 5 - 08 July 2018  
**Electromagnetic Micromanipulator Designs for Biological Species**  
BÖYÜK M., İÇÖZ K., ABLAY G.  
International Eurasian Conference on Biological and Chemical Sciences (EURASIANBIOCHEM 2018), Ankara, Turkey, 16 - 20 April 2018, pp.156-162
- **Design of Magnetic Tweezers for Single Molecule Manipulation**  
CANLILAR M. A. , SELİM F. T. , PAYAS A., BÖYÜK M., İÇÖZ K., ABLAY G.  
International Conference on Materials Science Mechanical and Automation Engineering and Technology (IMSMATEC 2018), İzmir, Turkey, 10 - 12 April 2018, pp.1-5
- **Analysis of Chaotic PWM Controller for Electric Drivers**  
ABLAY G.  
International Conference on Materials Science Mechanical and Automation Engineering and Technology (IMSMATEC 2018), İzmir, Turkey, 10 - 12 April 2018, pp.1-5
- **Design of magnetic actuator based microsensor system**  
ABLAY G., İÇÖZ K.  
2nd International Mediterranean Science and Engineering Congress, 25 - 27 October 2017
- **Automotive buck converter control with variable structure systems**  
ABLAY G.  
International Mediterranean Science and Engineering Congress (IMSEC 2017), Adana, Turkey, 25 - 27 October 2017, pp.1-6
- **Nickel micro pads and columns for trapping immunomagnetic beads and captured leukemia cells**  
BÖYÜK M., HASAN M., ABLAY G., İÇÖZ K.  
2nd International Conference on Material Science and Technology in Cappadocia (IMSTEC 2017), Nevşehir, Turkey, 10 - 11 October 2017
- **An Overview of Chaotic Communication Methods with FPGA Realizations**  
ABLAY G.  
International Conference on Mechatronics Systems and Control Engineering (ICMSCE 2017), Kayseri, Turkey, 15 - 16 January 2017
- **Data encryption using a chaotic delta modulator**  
ABLAY G.  
International Mediterranean Science and Engineering Congress (IMSEC 2016), Adana, Turkey, 26 - 27 October 2016
- **Cascade control of magnetic levitation with sliding modes**  
Eroğlu Y., ABLAY G.  
International Conference on Control, Mechatronics and Automation (ICCMA 2015), Barcelona, Spain, 20 - 22 December 2015
- **PI V plus sliding mode based cascade control of magnetic levitation**  
Eroğlu Y., ABLAY G.  
International Conference on Electrical and Electronics Engineering (ELECO 2015), Bursa, Turkey, 25 - 27 November 2015, pp.785-789
- **Prosesler için değişken yapıli kontrolörler**  
ABLAY G., Eroğlu Y.  
Otomatik Kontrol Ulusal Toplantısı, TOK2015, Denizli, Turkey, 10 - 12 September 2015
- **Chaotic control for mixing applications**  
ABLAY G.  
Otomatik Kontrol Ulusal Toplantısı, TOK2015, Denizli, Turkey, 10 - 12 September 2015
- **State feedback control of chaotic systems and electronic implementations**  
ABLAY G.

- International Scientific Conference on Physics and Control, PHYSCON 2015, İstanbul, Turkey, 19 - 22 August 2015  
**Integral sliding mode control of DC servo driven conveyor system**  
ABLAY G., Eroğlu y.
- International Conference on Automatic Control (ICOAC 2015), Ankara, Turkey, 15 - 17 April 2015, pp.1-6  
**Kayan kipli kontrole optimal yanıtli kayan yüzey tasarımı**  
ABLAY G.
- Otomatik Kontrol Ulusal Toplantısı, Bursa, Turkey, 11 - 13 September 2014, pp.259-263  
**Dayanıklı referans takibi için integral kayan kipli kontrol tasarımı**  
ABLAY G.
- Otomatik Kontrol Ulusal Toplantısı, Bursa, Turkey, 11 - 13 September 2014, pp.264-267  
**An observer-based fault diagnosis in battery systems of hybrid vehicles**  
ABLAY G.
- Int. Conference on Electrical and Electronics Engineering (ELECO 2013), Bursa, Turkey, 28 - 30 November 2013, pp.238-242  
**Steam generator level control with an observer based algebraic approach**  
ABLAY G.
- Int. Conference on Electrical and Electronics Engineering, Bursa, Turkey, 27 - 29 November 2013, pp.137-141  
**Modeling and simulation of advanced nuclear reactors**  
ABLAY G.
- Int. Conference on Electronics, Computer and Computation (ICECCO 2013), Ankara, Turkey, 11 - 13 October 2013, pp.151-154  
**Ni-MH batarya sistemlerinde gözleyici-temelli hata teşhisi**  
ABLAY G.
- Otomatik Kontrol Ulusal Toplantısı, Malatya, Turkey, 15 - 17 September 2013, pp.801-804  
**U-Tüp buhar jeneratörü seviye kontrolü için gözleyici-temelli kontrolör tasarımı**  
ABLAY G.
- Otomatik Kontrol Ulusal Toplantısı, Malatya, Turkey, 15 - 17 September 2013, pp.869-873  
**Feedwater control system design for boiling water reactors using the coefficient diagram method**  
ABLAY G., Aldemir T.
- Int. Meeting on Nuclear Plant Instrumentation, Control and Human Machine Interface Technologies (NPIC&HMIT), San Diego, United States Of America, 15 - 17 June 2012, pp.860-868  
**Level control of U-tube steam generators in nuclear power plants**  
ABLAY G.
- Graduate Research Day, The Ohio State University, Columbus, United States Of America, 15 - 16 April 2012, pp.1-3  
**A sliding mode output observer for sensor fault detection in nuclear reactors**  
ABLAY G., Aldemir T.
- Transactions of the American Nuclear Society, Washington, United States Of America, 11 - 13 October 2011, vol.105, pp.745-747  
**Sliding mode observer based fault detection in nuclear systems**  
ABLAY G., Aldemir T.
- Transactions of the American Nuclear Society, Florida, United States Of America, 5 - 07 June 2011, vol.104, pp.388-390  
**Control and simulation of the advanced nuclear reactors**  
ABLAY G., Aldemir T.
- Transactions of the American Nuclear Society, Florida, United States Of America, 5 - 07 June 2011, vol.104, pp.745-747  
**Sliding mode estimation of nuclear systems-Point reactor model**  
ABLAY G., Aldemir T.
- Transactions of the American Nuclear Society, San Diego, United States Of America, 10 - 12 June 2010, vol.102, pp.159-160  
**Sliding mode estimation of nuclear systems-U tube steam generator**

ABLAY G., Aldemir T.

Transactions of the American Nuclear Society, San Diego, United States Of America, 10 - 12 June 2010, vol.102, pp.161-162

● **Observer based sliding mode control of uncertain chaotic systems**

ABLAY G., Aldemir T.

Int. Conference on Electrical and Electronics Engineering (ELECO 2009), Bursa, Turkey, 26 - 28 November 2009, pp.307-311

● **Synchronization of different chaotic systems using generalized active control**

ABLAY G., Aldemir T.

Int. Conference on Electrical and Electronics Engineering (ELECO 2009), Bursa, Turkey, 4 - 06 October 2009, pp.182-186

● **Sliding mode control of a chaotic nonlinear gyro**

ABLAY G.

Int. Aerospace Conference, Ankara, Turkey, 15 - 17 June 2009, pp.1-6

● **Durum geribesleme ile doğrusallaştırma ve kaotik sistemlerin gözleyici temelli kontrolü**

ABLAY G.

Otomatik Kontrol Ulusal Toplantısı, İstanbul, Turkey, 11 - 13 September 2007, pp.1-4

● **Dinamiğinde belirsizlik içeren bir uçağın boylamasına hareketinin dayanıklı denetimi**

ABLAY G., Uçar A.

Elektrik-Elektronik-Bilgisayar Mühendisliği Sempozyumu ve Fuarı, Bursa, Turkey, 25 - 27 November 2006, pp.235-239

● **Belirsizlik içeren esnek eklemlı robot kollarının dayanıklı denetimi**

ABLAY G., Uçar A.

Otomatik Kontrol Ulusal Toplantısı, Ankara, Turkey, 15 - 17 September 2006, pp.283-287

● **Belirsizlik içeren uçak dinamiğinin boylamsal kontrolü**

ABLAY G., Uçar A.

Ulusal Havacılık ve Uzay Konferansı, Ankara, Turkey, 15 - 16 June 2006, no.21, pp.1-5

● **Belirsizlik ve doğrusal olmayan eleman içeren sistemler için bir dayanımlı durum geribeslemeli kontrolör**

ABLAY G., Uçar A.

GAP V. Mühendislik Kongresi, Şanlıurfa, Turkey, 4 - 06 April 2006, pp.732-739

## Supported Projects

ABLAY G., TUBITAK Project, Elektromanyetik Levitasyon ile Çalışan Biyosensör-Mikrorobot Sistemlerinin Geliştirilmesi ve Kontrolü, 2017 - Continues

ABLAY G., ALTINTAŞ A., BORISENOK S., Öğrencisi Y., Öğrencisi Y., Project Supported by Higher Education Institutions, Elektronik Devrelerinde Kaotikleştirme ve Rastgeleleştirme için Geribeslemeli Algoritmalar ve Bunların Güvenli Haberleşme Uygulamaları, 2015 - 2017

ABLAY G., TUBITAK Project, Proses kontrol sistemleri için kayan kipli kontrol geliştirilmesi ve FPGA-temelli pratik uygulanması, 2014 - 2016

ABLAY G., Project Supported by Other Private Institutions, Radio communication technologies and cryptography, 2013 - 2014

## Activities in Scientific Journals

Turkish Journal of Electrical and Computer Engineering, Editor, 2015 - 2017



## Memberships / Tasks in Scientific Organizations

Member, 2015 - Continues

Member, 2014 - Continues

Member, 2014 - Continues

Member, 2009 - 2015

Member, 2010 - 2011

## Scientific Refereeing

ELECTRONICS LETTERS, SCI Journal, November 2019

IEEE ACCESS, SCI Journal, October 2019

NONLINEAR DYNAMICS, SCI Journal, September 2019

IEEE Transactions On Industrial Electronics, SCI Journal, September 2019

PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART I-JOURNAL OF SYSTEMS AND CONTROL ENGINEERING, Journal Indexed in SCI-E, August 2019

IET CONTROL THEORY AND APPLICATIONS, SCI Journal, July 2019

TUBITAK Project, 1511 - TUBITAK Priority Fields Research Technology Development and Innovation PDP, Abdullah Gul University, Turkey, June 2019

TRANSACTIONS OF THE INSTITUTE OF MEASUREMENT AND CONTROL, Journal Indexed in SCI-E, May 2019

TRANSACTIONS OF THE INSTITUTE OF MEASUREMENT AND CONTROL, Journal Indexed in SCI-E, March 2019

NUCLEAR ENGINEERING AND TECHNOLOGY, SCI Journal, March 2019

TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Abdullah Gul University, Turkey, February 2019

Transactions of Institute of Measurement and Control, SCI Journal, September 2018

Turkish Journal of Electrical Engineering and Computer Science, SCI Journal, August 2018

TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Abdullah Gul University, Turkey, June 2018

TUBITAK Project, 1501 - Industry R & D Projects Support Program, Abdullah Gul University, Turkey, June 2018

IET Control Theory and Applications, SCI Journal, May 2018

TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Abdullah Gul University, Turkey, May 2018

Transactions of Institute of Measurement and Control, SCI Journal, April 2018

Electronics Letters, SCI Journal, March 2018

IEEE Transactions on Industrial Electronics, SCI Journal, March 2018

Nonlinear Dynamics, SCI Journal, March 2018

TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Abdullah Gul University, Turkey, December 2017

Transactions of Institute of Measurement and Control, SCI Journal, January 2017

European Transactions on Electrical Power, SCI Journal, October 2016

Transactions of Institute of Measurement and Control, SCI Journal, October 2016

Electronics Letters, SCI Journal, October 2016

IEEE Transactions on Industrial Electronics, SCI Journal, September 2016

Transactions of Institute of Measurement and Control, SCI Journal, September 2016

IET Control Theory and Applications, SCI Journal, August 2016

Nonlinear Dynamics, SCI Journal, July 2016

Control Engineering Practice, SCI Journal, July 2016

Transactions of Institute of Measurement and Control, SCI Journal, June 2016

Automatica, SCI Journal, June 2016

TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Abdullah Gul University,

Turkey, June 2016

IEEE Transactions on Energy Conversion, SCI Journal, May 2016

Transactions of Institute of Measurement and Control, SCI Journal, April 2016

Applied Soft Computing, SCI Journal, March 2016

Annals of Nuclear Energy, SCI Journal, January 2016

Nuclear Science and Technique, SCI Journal, October 2015

Asian Journal of Control, SCI Journal, September 2015

IEEE Transactions on Systems, Man and Cybernetics: Systems, SCI Journal, August 2015

Journal of Intelligent and Robotic Systems, SCI Journal, July 2015

Transactions of Institute of Measurement and Control, SCI Journal, June 2015

Automatica, SCI Journal, May 2015

Applied Soft Computing, SCI Journal, April 2015

Nuclear Energy Science & Power Generation Technology, SCI Journal, March 2015

IEEE Transactions of Industrial Electronics, SCI Journal, March 2015

Nonlinear Dynamics, SCI Journal, March 2015

ISA Transactions, SCI Journal, March 2015

IEEE Transactions of Nuclear Science, SCI Journal, September 2014

Turkish Journal of Electrical Engineering and Computer Science, SCI Journal, July 2014

Nuclear Engineering and Design, SCI Journal, June 2014

IEEE Transactions of Power Electronics, SCI Journal, May 2014

Nuclear Technology, SCI Journal, May 2014

Nuclear Science and Engineering, SCI Journal, April 2014

IEEE Transactions of Energy Conversion, SCI Journal, April 2014

IET Control Theory and Applications, SCI Journal, April 2014

## **Invited Congress and Symposium Activities**

International Symposium on Multidisciplinary Studies and Innovative Technologies (ISMSIT 2018), Attendee, Turkey, 2018

International Conference on Multidisciplinary Innovative Engineering Applications (CIEA 2018), Attendee, Turkey, 2018

International Conference on Multidisciplinary Innovative Engineering Applications, Invited Speaker, Sivas, Turkey, 2018

International Scientific and Vocational Studies Congress (BILMES2018), Attendee, Turkey, 2018

International Eurasian Conference on Biological and Chemical Sciences (EURASIANBIOCHEM 2018), Attendee, Turkey, 2018

International Conference on Materials Science Mechanical and Automation Engineering and Technology (IMSMATEC 2018), Attendee, Turkey, 2018

International Mediterranean Science and Engineering Congress (IMSEC 2017), Attendee, Turkey, 2017

International Conference on Mechatronics Systems and Control Engineering (ICMSCE 2017), Attendee, Kayseri, Turkey, 2017

International Conference on Mechatronics Systems and Control Engineering (ICMSCE 2017), Attendee, Turkey, 2017

International Mediterranean Science and Engineering Congress (IMSEC 2016), Attendee, Adana, Turkey, 2016

International Conference on Advanced Technology & Sciences (ICAT 2016), Attendee, --Seçiniz--, Turkey, 2016

International Mediterranean Science and Engineering Congress, Session Moderator, Adana, Turkey, 2016

Otomatik Kontrol Ulusal Toplantısı, Attendee, Turkey, 2016

International Conference on Trends in Computing and Information Technology (ICTCIT 2016), Attendee, Turkey, 2016

International Conference on Data Mining, Electronics and Information Technology, Attendee, Turkey, 2016

International Conference on Electrical and Electronics Engineering, Session Moderator, Bursa, Turkey, 2015

International Conference on Control, Mechatronics and Automation, Attendee, Spain, 2015

International Conference on Electrical and Electronics Engineering, Attendee, Turkey, 2015

International Conference on Automatic Control, Attendee, Turkey, 2015

International Scientific Conference on Physics and Control, Attendee, Turkey, 2015

Ulusal Otomatik Kontrol Toplantısı, Session Moderator, Kocaeli, Turkey, 2014

Ulusal Otomatik Kontrol Toplantısı, Session Moderator, Malatya, Turkey, 2013

## **Citations**

Total Citations (WOS):131

h-index (WOS):7

## **Awards**

Ablay G., Yayın Teşvik Ödülü, Tübitak, November 2019

ABLAY G., Best presenter award, International Conference on Advanced Technology & Sciences, October 2016

ABLAY G., Best paper award, International Conference on Control, Mechatronics and Automation, December 2015

ABLAY G., Graduate Research Award, Ohio State University, July 2012