

Prof. Fikret Çalışkan

Personal Information

Fax Phone: [+90 212 285 2920](tel:+902122852920)

Email: caliskanf@itu.edu.tr

Web: <http://akademi.itu.edu.tr/caliskanf/>

Address: İTÜ Elektrik Elektronik Fak. Kontrol ve Otomasyon müh. bölümü, Ayazağa, İstanbul

Education Information

Doctorate, University Of London-Queen Mary And Westfield College, Mühendsilk Fak., United Kingdom 1989 - 1993

Post Graduate, İstanbul Teknik Üniversitesi, Elektrik-Elektronik Fakültesi, Kontrol Ve Bilgisayar Mühendisliği Bölümü, Turkey 1984 - 1987

Under Graduate, İstanbul Teknik Üniversitesi, Elektrik-Elektronik Fakültesi, Elektronik Ve Haberleşme Mühendisliği Bölümü, Turkey 1980 - 1984

Foreign Languages

English

Dissertations

Doctorate, Self Repairing Flight Control Systems, University Of London-Queen Mary And Westfield College, 1993

Post Graduate, Senkron jeneratörün adaptif Kontrolü, İstanbul Teknik Üniversitesi, Elektrik-Elektronik Fakültesi, Kontrol Ve Otomasyon Mühendisliği Bölümü, 1987

Research Areas

Technical Sciences, Electrical and Electronics Engineering

Academic Titles / Tasks

Professor, Istanbul Technical University, Elektrik-Elektronik, Kontrol Ve Otomasyon Mühendisliği, 1985 - Continues

Academic and Administrative Experience

İstanbul Teknik Üniversitesi, Elektrik-Elektronik Fakültesi, 2013 - 2015

İstanbul Teknik Üniversitesi, Elektrik-Elektronik Fakültesi, Kontrol Ve Otomasyon Mühendisliği Bölümü, 2005 - 2008

Courses

Çok Değişkenli Kontrol Kuramı, Doctorate, 2016 - 2017

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

- I. **Model Predictive Control and Controller Parameter Optimisation of Combustion Instabilities**
Yazar I., Caliskan F., Vepa R.
INTERNATIONAL JOURNAL OF TURBO & JET-ENGINES, vol.36, no.2, pp.185-194, 2019 (Journal Indexed in SCI)
- II. **Estimation for Air Combat Games with Unknown Enemy Inputs**
Caliskan F.
JOURNAL OF AEROSPACE ENGINEERING, vol.25, no.2, pp.191-209, 2012 (Journal Indexed in SCI)
- III. **Sensor and control surface/actuator failure detection and isolation applied to F-16 flight dynamic**
Hajiyev C., CALISKAN F.
AIRCRAFT ENGINEERING AND AEROSPACE TECHNOLOGY, vol.77, no.2, pp.152-160, 2005 (Journal Indexed in SCI)
- IV. **Kalman filter and neural network-based icing a identification applied to A340 aircraft dynamics**
Aykan R., HAJIYEV C., CALISKAN F.
AIRCRAFT ENGINEERING AND AEROSPACE TECHNOLOGY, vol.77, no.1, pp.23-33, 2005 (Journal Indexed in SCI)
- V. **Robust quadratic stabilization applied to design of continuous-time and discrete-time observers**
Caliskan F., Zohdy M.
ISA TRANSACTIONS, vol.42, no.3, pp.381-389, 2003 (Journal Indexed in SCI)
- VI. **Sensor/actuator fault diagnosis based on statistical analysis of innovation sequence and Robust Kalman Filtering**
Hajiyev C., CALISKAN F.
AEROSPACE SCIENCE AND TECHNOLOGY, vol.4, no.6, pp.415-422, 2000 (Journal Indexed in SCI)
- VII. **Real-time implementation of an algorithm for self-repairing control systems based on LQG optimization**
Caliskan F.
PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART I-JOURNAL OF SYSTEMS AND CONTROL ENGINEERING, vol.212, pp.27-36, 1998 (Journal Indexed in SCI)

Refereed Congress / Symposium Publications in Proceedings

- I. **Neural Network Based Icing Identification and Fault Tolerant Control of a 340 Aircraft**
Caliskan F.
Conference of the World-Academy-of-Science-Engineering-and-Technology, Prague, Czech Republic, 27 - 29 July 2007, vol.22, pp.111-116
- II. **Game estimators for air combat games with unknown enemy inputs**
Caliskan F., Mukai H., Katz I., Tanikawa A.
Annual American Control Conference (ACC 2003), Colorado, United States Of America, 04 June 2003 - 06 June 2006, pp.5381-5387
- III. **EKF based surface fault detection and reconfiguration in aircraft control systems**
Caliskan F., Hajiyev C.
2000 American Control Conference (ACC 2000), Illinois, United States Of America, 28 - 30 June 2000, pp.1220-1224
- IV. **Aircraft sensor fault diagnosis based on Kalman filter innovation sequence**
Caliskan F., Hajiyev C.
37th IEEE Conference on Decision and Control, Tama, Japan, 16 - 18 December 1998, pp.1313-1314
- V. **Fault detection in flight control systems via innovation sequence of Kalman filter**
Hajiyev C., Caliskan F.
UKACC International Conference on Control 98, Swansea, England, 1 - 04 September 1998, pp.1528-1533

Supported Projects

Çalışkan F., Project Supported by Higher Education Institutions, Politik Platformlar Sensör/Eyleci Arızalarına Karşı Bir İHA'nın Yeniden Şekillendirilebilir Kontrolü, 2015 - 2018

Çalışkan F., Project Supported by Higher Education Institutions, İnsansız Hava Aracındaki Sensör ve Eyleyici Arıza Teşhisi, 2014 - 2018

Çalışkan F., Project Supported by Higher Education Institutions, A Review of in Flight Detection and Identification of Aircraft Icing and Reconfigurable, 2012 - 2018

Çalışkan F., Project Supported by Higher Education Institutions, Robust Actuator Fault Detection and Isolation in a Multi Area Interconnected Power System, 2011 - 2018

Çalışkan F., Project Supported by Higher Education Institutions, A340 Uçağının Sinir Ağlarıyla Buzlanma Kestirimi ve Arıza Toleranslı Kontrol, 2007 - 2018

Çalışkan F., Project Supported by Higher Education Institutions, Robot Kontrol Sistemlerindeki Algılayıcılarda Meydana Gelen Arızaların Tespit ve Teşhisi için Algoritmalar, 2005 - 2008

Çalışkan F., Project Supported by Higher Education Institutions, F-16 Uçağında Arıza Tespiti, Teşhisi ve Yeniden Yapılandırılabilir Kontrol, 2003 - 2005

Activities in Scientific Journals

turkish journal of electrical and computer engineering, Editor, 2015 - Continues

Scientific Refereeing

ISA Transactions, SCI Journal, August 2017

Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, SCI Journal, March 2017

Citations

Total Citations (WOS):261

h-index (WOS):9