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Education Information

Doctorate, Azerbaycan Devlet Neft Akademisi, Kontrol Mühendisliği, Azerbaijan 1983 - 1986

Undergraduate, Moskova Havacılık Enstitüsü (Ulusal Araştırma Üniversitesi), Uçan Araçların Otomatik Kontrol Sistemleri, Russia 1975 - 1981

Foreign Languages

Russian

Dissertations

Doctorate, YARI BATIRILMIŞ YÜZEN SONDAJ PLATFORMUNUN DURUMUNUN OTOMATİK DENETİM VE KONTROL SİSTEMİ İÇİN İNFORMASYON BİRİKTİRİMİ , Azerbaycan Devlet Neft Akademisi, Kontrol Mühendisliği, 1986

Research Areas

Technical Sciences, Aeronautical and Space Engineering

Academic Titles / Tasks

Professor, Istanbul Technical University, Uçak Ve Uzay Bilimleri Fakültesi, Uçak Mühendisliği Bölümü, 1996 - Continues

Courses

Aviyonik Navigasyon Sistemleri, Postgraduate, 2023 - 2024

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Attitude filtering with uncertain process and measurement noise covariance using SVD-aided adaptive UKF**
Hajiyev C., Çilden Güler D.
International Journal of Robust and Nonlinear Control, vol.33, no.17, pp.10512-10531, 2023 (SCI-Expanded)
- II. **TRIAD-Aided Multiplicative EKF for Small Satellite Attitude Estimation and Magnetometer Calibration**
Kinatas H., Hajiyev C.
IEEE Sensors Journal, vol.23, no.22, pp.27161-27168, 2023 (SCI-Expanded)
- III. **Geomagnetic storms in the context of spacecraft attitude estimation under different noise levels**
Çilden Güler D., Kaymaz Z., Hajiyev C.
Advances in Space Research, vol.72, no.7, pp.2733-2740, 2023 (SCI-Expanded)
- IV. **Fault-tolerant state estimation methods of cluster satellites**
Yunus Erkeç T., Hajiyev C.
Advances in Space Research, vol.71, no.9, pp.3868-3882, 2023 (SCI-Expanded)
- V. **An innovation-based actuator/surface fault detection, isolation and filter tuning**
Hajiyev C.
AIRCRAFT ENGINEERING AND AEROSPACE TECHNOLOGY, vol.95, no.3, pp.464-473, 2023 (SCI-Expanded)
- VI. **Attitude and gyro bias estimation by SVD-aided EKF**
Hajiyev C., Çilden Güler D.
MEASUREMENT, vol.205, 2022 (SCI-Expanded)
- VII. **Identification of hydrodynamic coefficients of AUV in the presence of measurement biases**
Dinc M., Hajiyev C.
PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART M-JOURNAL OF ENGINEERING FOR THE MARITIME ENVIRONMENT, vol.236, no.3, pp.756-763, 2022 (SCI-Expanded)
- VIII. **Formation Flight for Close Satellites With GPS-Based State Estimation Method**
Erkeç T. Y., Hacızade C.
IEEE SENSORS JOURNAL, vol.22, no.15, pp.15457-15464, 2022 (SCI-Expanded)
- IX. **Backup Magnetometer-Only Attitude Estimation Algorithm for Small Satellites**
Yakupoglu-Altuntas S., Eşit M., SÖKEN H. E., Hajiyev C.
IEEE SENSORS JOURNAL, vol.22, no.13, pp.13544-13551, 2022 (SCI-Expanded)
- X. **INS's Error Compensation via Measurement Differencing Kalman Filter**
Hacızade C.
IEEE TRANSACTIONS ON INSTRUMENTATION AND MEASUREMENT, vol.71, 2022 (SCI-Expanded)
- XI. **NANOSATELLITE ATTITUDE ESTIMATION IN SUN AND ECLIPSE PERIODS WITHOUT GYROSCOPES**
Hajiyev C., Çilden Güler D.
APPLIED AND COMPUTATIONAL MATHEMATICS, vol.21, no.3, pp.246-258, 2022 (SCI-Expanded)
- XII. **Satellite attitude estimation using SVD-Aided EKF with simultaneous process and measurement covariance adaptation**
Hajiyev C., Çilden Güler D.
ADVANCES IN SPACE RESEARCH, vol.68, no.9, pp.3875-3890, 2021 (SCI-Expanded)
- XIII. **Geomagnetic disturbance effects on satellite attitude estimation**
Çilden Güler D., Kaymaz Z., Hajiyev C.
ACTA ASTRONAUTICA, vol.180, pp.701-712, 2021 (SCI-Expanded)
- XIV. **Integration of barometric and GPS altimeters via adaptive data fusion algorithm**
Hajiyev C., Hacızade U., Çilden Güler D.
INTERNATIONAL JOURNAL OF ADAPTIVE CONTROL AND SIGNAL PROCESSING, vol.35, no.1, pp.2-14, 2021 (SCI-Expanded)
- XV. **Attitude Estimation with Albedo Interference on Sun Sensor Measurements**
Çilden Güler D., Schaub H., Hajiyev C., Kaymaz Z.
JOURNAL OF SPACECRAFT AND ROCKETS, vol.58, no.1, pp.148-163, 2021 (SCI-Expanded)
- XVI. **Two-Stage Kalman Filter for Fault Tolerant Estimation of Wind Speed and UAV Flight Parameters**
Hajiyev C., Çilden Güler D., Hacızade U.

MEASUREMENT SCIENCE REVIEW, vol.20, no.1, pp.35-42, 2020 (SCI-Expanded)

- XVII. Nontraditional Attitude Filtering with Simultaneous Process and Measurement Covariance Adaptation**
Hajiyev C., Soken H. E., Çilden Güler D.
JOURNAL OF AEROSPACE ENGINEERING, vol.32, no.5, 2019 (SCI-Expanded)
- XVIII. Nanosatellite attitude estimation using Kalman-type filters with non-Gaussian noise**
Çilden Güler D., Raitoharju M., Piche R., Hajiyev C.
AEROSPACE SCIENCE AND TECHNOLOGY, vol.92, pp.66-76, 2019 (SCI-Expanded)
- XIX. SVD-aided EKF attitude estimation with UD factorized measurement noise covariance**
Çilden Güler D., Hajiyev C.
ASIAN JOURNAL OF CONTROL, vol.21, no.4, pp.1423-1432, 2019 (SCI-Expanded)
- XX. ROBUST KALMAN FILTER-BASED FAULT-TOLERANT INTEGRATED BARO-INERTIAL-GPS ALTIMETER**
Contreras A. M., Hacızade C.
METROLOGY AND MEASUREMENT SYSTEMS, vol.26, no.4, pp.673-686, 2019 (SCI-Expanded)
- XXI. Evaluation of geomagnetic field models using magnetometer measurements for satellite attitude determination system at low earth orbits: Case studies**
Cilden-Guler D., Kaymaz Z., Hajiyev C.
ADVANCES IN SPACE RESEARCH, vol.61, no.1, pp.513-529, 2018 (SCI-Expanded)
- XXII. Spacecraft localization by indirect linear measurements from a single antenna**
Hajiyev C., Sofyali A.
AIRCRAFT ENGINEERING AND AEROSPACE TECHNOLOGY, vol.90, no.5, pp.734-742, 2018 (SCI-Expanded)
- XXIII. SINGLE-FRAME ATTITUDE DETERMINATION METHODS FOR NANOSATELLITES**
Cilden Guler D., CONGUROGLU E. S., Hajiyev C.
METROLOGY AND MEASUREMENT SYSTEMS, vol.24, no.2, pp.313-324, 2017 (SCI-Expanded)
- XXIV. Review on gyroless attitude determination methods for small satellites**
Hajiyev C., Cilden Guler D.
PROGRESS IN AEROSPACE SCIENCES, vol.90, pp.54-66, 2017 (SCI-Expanded)
- XXV. NANOSATELLITE ATTITUDE ESTIMATION FROM VECTOR MEASUREMENTS USING SVD-AIDED UKF ALGORITHM**
CILDEN D., SOKEN H. E., Hajiyev C.
METROLOGY AND MEASUREMENT SYSTEMS, vol.24, no.1, pp.113-125, 2017 (SCI-Expanded)
- XXVI. Gyro-free attitude and rate estimation for a small satellite using SVD and EKF**
Hajiyev C., Cilden D., SOMOV Y.
AEROSPACE SCIENCE AND TECHNOLOGY, vol.55, pp.324-331, 2016 (SCI-Expanded)
- XXVII. Active Fault-Tolerant Control of UAV Dynamics against Sensor-Actuator Failures**
Çalışkan F., HAJIYEV C.
JOURNAL OF AEROSPACE ENGINEERING, vol.29, no.4, 2016 (SCI-Expanded)
- XXVIII. Sensor Calibration Design Based on D Optimality Criterion**
HACIZADE C.
Metrology and Measurement Systems, vol.23, no.3, pp.413-424, 2016 (SCI-Expanded)
- XXIX. Orbital Calibration of Microsatellite Magnetometers Using a Linear Kalman Filter**
Hajiyev C.
MEASUREMENT TECHNIQUES, vol.58, no.9, pp.1037-1043, 2015 (SCI-Expanded)
- XXX. Single Station Antenna-Based Spacecraft Orbit Determination via Robust EKF against the Effect of Measurement Matrix Singularity**
Sofyali A., HAJIYEV C.
JOURNAL OF AEROSPACE ENGINEERING, vol.28, no.1, 2015 (SCI-Expanded)
- XXXI. Integration of navigation systems for autonomous underwater vehicles**
Dinc M., Hajiyev C.
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- XXXII. REKF and RUKF for pico satellite attitude estimation in the presence of measurement faults**

- Soeken H. E., HAJIYEV C.
JOURNAL OF SYSTEMS ENGINEERING AND ELECTRONICS, vol.25, no.2, pp.288-297, 2014 (SCI-Expanded)
- XXXIII. **Robust Kalman filtering for small satellite attitude estimation in the presence of measurement faults**
Soken H. E., HAJIYEV C., SAKAI S.
EUROPEAN JOURNAL OF CONTROL, vol.20, no.2, pp.64-72, 2014 (SCI-Expanded)
- XXXIV. **Robust adaptive unscented Kalman filter for attitude estimation of pico satellites**
Hajiyev C., SOKEN H. E.
INTERNATIONAL JOURNAL OF ADAPTIVE CONTROL AND SIGNAL PROCESSING, vol.28, no.2, pp.107-120, 2014 (SCI-Expanded)
- XXXV. **Generalized Rayleigh quotient based innovation covariance testing applied to sensor/actuator fault detection**
Hajiyev C.
MEASUREMENT, vol.47, pp.804-812, 2014 (SCI-Expanded)
- XXXVI. **Extended Kalman filter application for high-noise cancelation in control telemetry channels of oil electric submersible pump**
Ali-Zade P., HAJIYEV C., Hajiyeva U., YILMAZ M.
JOURNAL OF PETROLEUM SCIENCE AND ENGINEERING, vol.110, pp.109-118, 2013 (SCI-Expanded)
- XXXVII. **Two-stage Kalman filter-based actuator/surface fault identification and reconfigurable control applied to F-16 fighter dynamics**
Hajiyev C.
INTERNATIONAL JOURNAL OF ADAPTIVE CONTROL AND SIGNAL PROCESSING, vol.27, no.9, pp.755-770, 2013 (SCI-Expanded)
- XXXVIII. **Adaptive Fading UKF with Q-Adaptation: Application to Picosatellite Attitude Estimation**
Soken H. E., HAJIYEV C.
JOURNAL OF AEROSPACE ENGINEERING, vol.26, no.3, pp.628-636, 2013 (SCI-Expanded)
- XXXIX. **A review of in-flight detection and identification of aircraft icing and reconfigurable control**
Çalışkan F., HAJIYEV C.
PROGRESS IN AEROSPACE SCIENCES, vol.60, pp.12-34, 2013 (SCI-Expanded)
- XL. **Robust Adaptive Kalman Filter for estimation of UAV dynamics in the presence of sensor/actuator faults**
Hajiyev C., SOKEN H. E.
AEROSPACE SCIENCE AND TECHNOLOGY, vol.28, no.1, pp.376-383, 2013 (SCI-Expanded)
- XLI. **Identification of Orbital Measurements**
Hacızade C.
Measurement Techniques, vol.55, no.11, pp.1234-1239, 2013 (SCI-Expanded)
- XLII. **Identification of orbital measurements of spacecraft**
Hajiyev C.
MEASUREMENT TECHNIQUES, vol.55, no.11, pp.1234-1239, 2013 (SCI-Expanded)
- XLIII. **UKF-Based Reconfigurable Attitude Parameters Estimation and Magnetometer Calibration**
Soken H. E., HAJIYEV C.
IEEE TRANSACTIONS ON AEROSPACE AND ELECTRONIC SYSTEMS, vol.48, no.3, pp.2614-2627, 2012 (SCI-Expanded)
- XLIV. **UKF based in-flight calibration of magnetometers and rate gyros for pico satellite attitude determination**
Soeken H. E., HAJIYEV C.
ASIAN JOURNAL OF CONTROL, vol.14, no.3, pp.707-715, 2012 (SCI-Expanded)
- XLV. **Fault tolerant integrated radar/inertial altimeter based on Nonlinear Robust Adaptive Kalman filter**
Hajiyev C.
AEROSPACE SCIENCE AND TECHNOLOGY, vol.17, no.1, pp.40-49, 2012 (SCI-Expanded)
- XLVI. **Tracy-Widom distribution based fault detection approach: Application to aircraft sensor/actuator fault detection**

- Hajiyev C.
ISA TRANSACTIONS, vol.51, no.1, pp.189-197, 2012 (SCI-Expanded)
- XLVII. **Robust Estimation of UAV Dynamics in the Presence of Measurement Faults**
Hajiyev C., SOKEN H. E.
JOURNAL OF AEROSPACE ENGINEERING, vol.25, no.1, pp.80-89, 2012 (SCI-Expanded)
- XLVIII. **Innovation based two-interval overlap test for failure prediction in measurement systems**
Hajiyev C.
MEASUREMENT, vol.44, no.9, pp.1543-1550, 2011 (SCI-Expanded)
- XLIX. **GNSS SIGNALS PROCESSING VIA LINEAR AND EXTENDED KALMAN FILTERS**
Hajiyev C.
ASIAN JOURNAL OF CONTROL, vol.13, no.2, pp.273-282, 2011 (SCI-Expanded)
- L. **Testing the covariance matrix of the innovation sequence with sensor/actuator fault detection applications**
Hajiyev C.
INTERNATIONAL JOURNAL OF ADAPTIVE CONTROL AND SIGNAL PROCESSING, vol.24, no.9, pp.717-730, 2010 (SCI-Expanded)
- LI. **Pico satellite attitude estimation via Robust Unscented Kalman Filter in the presence of measurement faults**
Soken H. E., HAJIYEV C.
ISA TRANSACTIONS, vol.49, no.3, pp.249-256, 2010 (SCI-Expanded)
- LII. **Determination of optimum measurement points via A-optimality criterion for the calibration of measurement apparatus**
Hajiyev C.
MEASUREMENT, vol.43, no.4, pp.563-569, 2010 (SCI-Expanded)
- LIII. **Fault detection in sensor information fusion Kalman filter**
Okatan A., HAJIYEV C., Hajiyeva U.
AEU-INTERNATIONAL JOURNAL OF ELECTRONICS AND COMMUNICATIONS, vol.63, no.9, pp.762-768, 2009 (SCI-Expanded)
- LIV. **Aircraft icing detection, identification, and reconfigurable control based on Kalman filtering and neural networks**
Caliskan F., AYKAN R., HAJIYEV C.
JOURNAL OF AEROSPACE ENGINEERING, vol.21, no.2, pp.51-60, 2008 (SCI-Expanded)
- LV. **Fuzzy logic-based automated engine health monitoring for commercial aircraft**
Demirci S., HAJIYEV C., SCHWENKE A.
AIRCRAFT ENGINEERING AND AEROSPACE TECHNOLOGY, vol.80, no.5, pp.516-525, 2008 (SCI-Expanded)
- LVI. **Determining the Operating Conditions of Floating Marine Platforms Based on the Predicted Motion Control Under Conditions of Wind and Wave Disturbances**
Hacizade C.
Measurement Techniques, vol.51, no.1, pp.28-33, 2008 (SCI-Expanded)
- LVII. **Adaptive filtration algorithm with the filter gain correction applied to integrated INS/radar altimeter**
Hajiyev C.
PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART G-JOURNAL OF AEROSPACE ENGINEERING, vol.221, pp.847-855, 2007 (SCI-Expanded)
- LVIII. **Innovation approach based measurement error self-correction in dynamic systems**
Hajiyev C.
MEASUREMENT, vol.39, no.7, pp.585-593, 2006 (SCI-Expanded)
- LIX. **A Sequential Method of Calibrating Measurement Instruments with a Kalman filter**
Hacizade C.
MEASUREMENT TECHNIQUES, vol.49, no.4, pp.357-366, 2006 (SCI-Expanded)
- LX. **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 (SCI-Expanded)
- LXI. **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 (SCI-Expanded)
- LXII. **Error analysis and motion determination of a flight simulator**
Yurt S. N., Ozkol I., HAJIYEV C.
AIRCRAFT ENGINEERING AND AEROSPACE TECHNOLOGY, vol.76, no.2, pp.185-192, 2004 (SCI-Expanded)
- LXIII. **Attitude Determination and Control System Design of the ITU UUBF LEO1 Satellite**
Hacızade C.
ACTA ASTRONAUTICA, vol.52, pp.493-499, 2003 (SCI-Expanded)
- LXIV. **An Approach to Improve the Offshore Platform Coordinates Accuracy by Using Multichannel Kalman Filtering**
Hacızade C.
ISA Transactions, Journal of Automation and Measurement, vol.42, no.1, pp.53-61, 2003 (SCI-Expanded)
- LXV. **An approach to improve the offshore platform coordinates accuracy by using multichannel Kalman filtering**
Hacızade C., Çalışkan F.
ISA TRANSACTIONS, vol.42, no.1, pp.53-61, 2003 (SCI-Expanded)
- LXVI. **Optimization of the PD coefficient in a flight simulator control via genetic algorithms**
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AIRCRAFT ENGINEERING AND AEROSPACE TECHNOLOGY, vol.74, no.2, pp.147-153, 2002 (SCI-Expanded)
- LXVII. **Integrated sensor/actuator FDI and reconfigurable control for fault-tolerant flight control system design**
Hacızade C., Çalışkan F.
AERONAUTICAL JOURNAL, vol.105, no.1051, pp.525-533, 2001 (SCI-Expanded)
- LXVIII. **Optimization of the allowed drilling area in the operation of offshore platforms**
Hacızade C.
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- LXIX. **Integrated sensor actuator FDI and reconfigurable control for fault tolerant flight control system design**
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The Aeronautical Journal, vol.105, no.1051, pp.525-533, 2001 (SCI-Expanded)
- LXX. **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 (SCI-Expanded)
- LXXI. **A recurrent algorithm for estimating a linear regression model with account of the regression vector error**
Hacızade C.
Industrial Laboratory, vol.66, no.7, pp.486-489, 2000 (SCI-Expanded)
- LXXII. **Innovation sequence application to aircraft sensor fault detection: comparison of checking covariance matrix algorithms**
Caliskan F., HAJIYEV C.
ISA TRANSACTIONS, vol.39, no.1, pp.47-56, 2000 (SCI-Expanded)
- LXXIII. **A optimal plan for locating extension wells when prospecting for oil deposits**
Hacızade C.
MEASUREMENT TECHNIQUES, vol.43, no.3, pp.222-228, 2000 (SCI-Expanded)
- LXXIV. **Sensor Fault Detection in Flight Control Systems Based on the Kalman Filter Innovation Sequence**
Hacızade C.
IMechE Proceedings , Part I, J.Systems & Control Engineering, vol.213, pp.243-248, 1999 (SCI-Expanded)
- LXXV. **Sensor fault detection in flight control systems based on the Kalman filter innovation sequence**

Çalışkan F., Hacızade C.

PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART I-JOURNAL OF SYSTEMS AND CONTROL ENGINEERING, vol.213, pp.243-248, 1999 (SCI-Expanded)

LXXVI. Distributions of scalar measures of a Wishart random matrix

Hacızade C.

Industrial Laboratory, vol.0, no.5, pp.340-341, 1999 (SCI-Expanded)

LXXVII. Experimental Design in Problems Involving Measurement of the Mass of Petroleum Products in Storage Tanks

Hacızade C.

MEASUREMENT TECHNIQUES, vol.39, no.6, pp.629-632, 1996 (SCI-Expanded)

LXXVIII. Multidimensional Dynamical System Mathematical Model Adequacy Operative Verifying

Hacızade C.

AUTOMATION AND REMOTE CONTROL, vol.56, no.7, pp.949-955, 1995 (SCI-Expanded)

LXXIX. Sequential Method for Verifying Adequacy of Mathematical Models for Multidimensional Dynamical Systems with Biased Measurements

Hacızade C.

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LXXX. Problems in Analyzing Hydrostatic Measurements of the Mass of Petroleum Products by Data Measurement Systems

Hacızade C.

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Articles Published in Other Journals

I. Estimation of the Relative States of Satellite Formation Flights Using the Adaptive Extended Kalman Filter

Tuncay Yunus Erkeç Y., Chingiz Hajiyeu H.

Gyroscopy and Navigation, vol.14, no.2, pp.154-165, 2023 (Scopus)

II. A Covariance Matching-Based Adaptive Measurement Differencing Kalman Filter for INS's Error Compensation

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WSEAS Transactions on Systems and Control, vol.18, pp.478-486, 2023 (Scopus)

III. TRIAD aided adaptive Kalman filter for fault tolerant attitude estimation of a nanosatellite

Kinatas H., Hajiyeu C.

International Journal of Sustainable Aviation, vol.9, no.3, pp.191-204, 2023 (ESCI)

IV. Magnetic Torquers Only Attitude Control of a 3U Cube Satellite

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V. GNSS-based position estimation with Kalman filters

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VI. TRIAD-Aided EKF for Satellite Attitude Estimation and Sensor Calibration

Gokcay M. A., Hajiyeu C.

WSEAS Transactions on Applied and Theoretical Mechanics, vol.17, pp.207-214, 2022 (Scopus)

VII. QUEST Aided EKF for Attitude and Rate Estimation Using Modified Rodrigues Parameters

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VIII. Sensor FDI and reconfiguration in B-747 aircraft flight control system

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INTERNATIONAL JOURNAL OF SUSTAINABLE AVIATION, vol.8, no.4, pp.312-335, 2022 (ESCI)

- IX. **Fault Tolerant Attitude Estimation for a Nanosatellite Using Adaptive Kalman Filter with Single Scaling Factor**
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Havacılık ve Uzak Teknolojileri Dergisi, vol.15, no.2, pp.74-93, 2022 (Peer-Reviewed Journal)
- X. **Comparison of TRIAD+EKF and TRIAD+UKF Algorithms for Nanosatellite Attitude Estimation**
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- XI. **Fault-tolerant estimation of satellite orbital states**
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- XII. **GNSS Signal Processing with EKF and UKF for Stationary User Position Estimation**
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- XIII. **Active fault tolerant flight control for UAV actuator failures**
Mammadov H., HACIZADE C.
Mathematics In Engineering, Science And Aerospace, vol.10, no.4, pp.657-670, 2019 (Scopus)
- XIV. **Two-Stage Kalman Filter for Estimation of Wind Speed and UAV States by using GPS, IMU and Air Data System**
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- XV. **SVD-Aided UKF for Estimation of Nanosatellite Rotational Motion Parameters**
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WSEAS Transactions on Signal Processing, vol.14, pp.27-35, 2018 (Peer-Reviewed Journal)
- XVI. **Fault tolerant control of attitude dynamics of nanosatellites**
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- XVII. **Attitude and Rate Estimation for Nanosatellite from Vector Measurements Using SVD-Aided UKF Algorithm**
ÇILDEN GÜLER D., SOKEN H. E., HACIZADE C.
International Journal of Mathematical and Computational Methods, vol.2, pp.346-353, 2017 (Peer-Reviewed Journal)
- XVIII. **Singular value decomposition based satellite attitude determination using different sensor configurations**
Guler D., Hajiyeve C.
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- XIX. **Two-stage Kalman filter for estimating the actuator control effectiveness factors of UAV**
Vural S. Y., Hajiyeve C.
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- XX. **Fault tolerant estimation of electro-mechanical actuator parameters via robust EKF**
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- XXI. **Sensor Actuator Fault Detection Isolation and Accommodation Applied to UAV Model**
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- XXII. **Nontraditional Approach to Satellite Attitude Estimation**
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H-Index (Scopus): 21

Invited Talks

International Symposium on Electric Aircraft and Autonomous Systems, Conference, Institute of Aviation, Warsaw

University of Technology and Air Force Institute of Technology, Poland, July 2023

International Symposium on Unmanned Systems: AI, Design and Efficiency, Conference, KTH Royal Institute of Technology, Sweden, June 2023

International Symposium on Sustainable Aviation, Conference, RMIT University, Australia, August 2022

International Symposium on Electric Aviation and Autonomous Systems, Conference, University of Maribor, Slovenia, July 2022

International Symposium on Electric Aircraft and Autonomous System 2021, Conference, Eskişehir Teknik Üniversitesi, Turkey, December 2021

Mathematical Models in Engineering and Systems, Conference, WSEAS, Portugal, April 2019

Aeronautical and Mechanical Engineering, Conference, WSEAS, Italy, December 2017

Sürdürülebilir Havacılık Araştırmaları, Workshop, GEBZE TEKNİK ÜNİVERSİTESİ, Turkey, April 2017

16th International Conference on Robotics, Control and Manufacturing Technology, Conference, WSEAS, Czech Republic, March 2016