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International Researcher IDs

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Dissertations

Postgraduate, Development and application of flight control software based on STM32f4 microprocessor for quadrotor unmanned air vehicle, Yildiz Technical University, Faculty Of Mechanical Engineering, Department Of Mechatronics Engineering, 2022

Research Areas

Discrete Time Systems and Computer Control, Artificial Intelligence, Computer Learning and Pattern Recognition, System Dynamics and Control, Robotics

Academic Titles / Tasks

Research Assistant, Yildiz Technical University, Faculty Of Mechanical Engineering, Department Of Mechatronics Engineering, 2019 - Continues

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Parameterizing history-dependent dynamics of skeletal muscle with a new nonlinear stiffness and damping formulation**
Gürkan B., İscan M., Yılmaz C.
TRANSACTIONS OF THE INSTITUTE OF MEASUREMENT AND CONTROL, vol.0, no.0, 2025 (SCI-Expanded)
- II. **Adaptive elliptic trajectory-based received signal strength indicator antenna tracking algorithm**
Taş A. İ., İscan M., Gurkan B., Yılmaz C.
TRANSACTIONS OF THE INSTITUTE OF MEASUREMENT AND CONTROL, vol.46, no.11, pp.2077-2086, 2024 (SCI-Expanded)
- III. **A novel elliptic trajectory formula for active RSSI-based antenna tracking algorithm**
İşcan M., Taş A. İ., Gürkan B., Yılmaz C.
TRANSACTIONS OF THE INSTITUTE OF MEASUREMENT AND CONTROL, vol.45, no.14, pp.2760-2770, 2023 (SCI-Expanded)

Papers Published in Refereed Scientific Meetings

- I. **Sensor Fusion Design by Extended and Unscented Kalman Filter Approaches for Position and Attitude Estimation** Pozisyon ve Yönelim Tahmini için, Genisletilmiş ve Kokusuz Kalman Filtresi Yaklaşımlarıyla Sensör Füzyonu Tasarımı
Sahin H., GÜRKAN B., ÖMÜRLÜ V. E.
4th International Congress on Human-Computer Interaction, Optimization and Robotic Applications, HORA 2022, Ankara, Turkey, 9 - 11 June 2022
- II. **Development of High Ratio Performance/Weight Mechatronic Systems by Using Regenerative Design Techniques**
Güzel S. B., Yesir G., Kılınc B., Erzincanlı F. F., Gürkan B., Ömürlü V. E.
Uluslararası Katılımlı Mekatronik Öğrenci Konferansı, Mekon2021 , İstanbul, Turkey, 25 June 2021, pp.1-6
- III. **STM32F407VG microprocessor based flight controller design experimented on a quadrotor**
ÖMÜRLÜ V. E., Gurkan B.
6th International Conference on Electrical and Electronics Engineering, ICEEE 2019, İstanbul, Turkey, 16 - 17 April 2019, pp.302-306

Metrics

Publication: 6

Citation (Scopus): 5

H-Index (Scopus): 2