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Research Areas

Control and System Engineering, Robotics and Mechatronics Systems, Biosignal Processing

Academic Titles / Tasks

Assistant Professor, Hacettepe University, Mühendislik Fakültesi, Elektrik ve Elektronik Bölümü, 2019 - Continues

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Predictive uncertainty in state-estimation drives active sensing**
KARAGÖZ O. K., KILIÇ A., Aydın E. Y., ANKARALI M. M., UYANIK İ.
BIOINSPIRATION & BIOMIMETICS, vol.20, no.1, 2024 (SCI-Expanded)
- II. **On the analysis and control of a bipedal legged locomotion model via partial feedback linearization**
Hamzacebi H., UYANIK İ., MORGÜL Ö.
BIOINSPIRATION & BIOMIMETICS, no.5, 2024 (SCI-Expanded)
- III. **Salience of multisensory feedback regulates behavioral variability**
Comertler M. S., UYANIK İ.
BIOINSPIRATION & BIOMIMETICS, vol.17, no.1, 2022 (SCI-Expanded)
- IV. **Variability in locomotor dynamics reveals the critical role of feedback in task control.**
Uyanik İ., Sefati S., Stamper S., Cho K., Ankarali M., Fortune E., Cowan N.
eLife, vol.9, 2020 (SCI-Expanded)
- V. **Frequency-Domain Subspace Identification of Linear Time-Periodic (LTP) Systems**
Uyanik İ., SARANLI U., ANKARALI M. M., Cowan N. J., Morgul O.
IEEE TRANSACTIONS ON AUTOMATIC CONTROL, vol.64, no.6, pp.2529-2536, 2019 (SCI-Expanded)
- VI. **Harmonic transfer functions based controllers for linear time-periodic systems**
Hidir E. K., Uyanik İ., Morgul O.
TRANSACTIONS OF THE INSTITUTE OF MEASUREMENT AND CONTROL, vol.41, no.8, pp.2171-2184, 2019 (SCI-Expanded)
- VII. **Sensory Cues Modulate Smooth Pursuit and Active Sensing Movements**
Uyanik İ., Stamper S. A., Cowan N. J., Fortune E. S.
FRONTIERS IN BEHAVIORAL NEUROSCIENCE, vol.13, 2019 (SCI-Expanded)
- VIII. **State-space identification of switching linear discrete time-periodic systems with known scheduling**

signals

Uyanik I., Hamzacebi H., ANKARALI M. M.

TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.27, no.4, pp.2755-2768, 2019 (SCI-Expanded)

- IX. **Enhancing 3D range image measurement density via dynamic Papoulis-Gerchberg algorithm**
Kuzucu E., Ozturk D., Gul M., Ozbay B., Arisoy A. M., Sirin H. O., Uyanik İ.
TRANSACTIONS OF THE INSTITUTE OF MEASUREMENT AND CONTROL, vol.40, no.16, pp.4407-4420, 2018 (SCI-Expanded)
- X. **A low-cost feedback control systems laboratory setup via Arduino-Simulink interface**
Uyanik İ., Catalbas B.
COMPUTER APPLICATIONS IN ENGINEERING EDUCATION, vol.26, no.3, pp.718-726, 2018 (SCI-Expanded)
- XI. **Identification of a vertical hopping robot model via harmonic transfer functions**
Uyanik İ., Ankarali M. M., Cowan N. J., SARANLI U., Morgul O.
TRANSACTIONS OF THE INSTITUTE OF MEASUREMENT AND CONTROL, vol.38, no.5, pp.501-511, 2016 (SCI-Expanded)
- XII. **Experimental Validation of a Feed-Forward Predictor for the Spring-Loaded Inverted Pendulum Template**
Uyanik İ., Morgul O., SARANLI U.
IEEE TRANSACTIONS ON ROBOTICS, vol.31, no.1, pp.208-216, 2015 (SCI-Expanded)

Refereed Congress / Symposium Publications in Proceedings

- I. **Reshaping Active Sensing via Closing a Feedback Loop Around Free Behavior**
Topcakar S., Aydin E. Y., DEMİREL A., UYANIK İ.
32nd IEEE Signal Processing and Communications Applications Conference (SIU), Mersin, Turkey, 15 - 18 May 2024
- II. **A Novel Membrane with Soft Sensors to Directly Measure Mechanical Strain**
Kumbay Yildiz Ş., Düz N., Aydin E. Y., Akar S., Artuner H., Dinçer P. R., Uyanik I.
Neuroscience 2023 - Society for Neuroscience, Washington, Kiribati, 11 November 2023
- III. **Characterization of Soft Robotic Antenna for Close-Proximity Distance Perception Yakın Mesafe Algisi için Yumuşak Robotik Duyarga Karakterizasyonu**
Demir O., Öztürk E., Sayar E., Uyanik I., Yildiz Ş. K.
31st IEEE Conference on Signal Processing and Communications Applications, SIU 2023, İstanbul, Turkey, 5 - 08 July 2023
- IV. **Identification and Control of a Linear Time-Periodic Test Bench Using Harmonic Transfer Functions and LQR Controllers**
Sert B., ÇATALBAŞ B., UYANIK İ.
9th International Conference on Control, Decision and Information Technologies, CoDIT 2023, Rome, Italy, 3 - 06 July 2023, pp.2366-2371
- V. **Tracking the Nodal Point of Weakly Electric Fish Using Artificial Neural Networks Zayıf Elektrik Balıklarının Düğüm Noktasının Yapay Sinir Ağları Kullanılarak Takip Edilmesi**
ÇATALBAŞ B., Elikuru D., Aydin E. Y., UYANIK İ.
31st IEEE Conference on Signal Processing and Communications Applications, SIU 2023, İstanbul, Turkey, 5 - 08 July 2023
- VI. **A Biologically Inspired Soft Robotic Antenna for Insect-like Robots Böceğimsi Robotlar için Biyolojik Olarak Esinlenilmiş Yumuşak Robotik Duyarga**
Kaymak O., Sen F., Yuksel F., UYANIK İ., Yildiz S. K.
30th Signal Processing and Communications Applications Conference, SIU 2022, Safranbolu, Turkey, 15 - 18 May 2022
- VII. **System Identification of the Target Tracking Behavior of Zebrafish During Rheotaxis Zebra**

Baliklarinin Reotaksi Esnasindaki Hedef Takip Davranışinin Sistem Taniyimi

Koc O., Demirel A., Aydın E. Y., Ibisoglu F., Solmaz S. I., Ari K., Idman A., UYANIK İ.

30th Signal Processing and Communications Applications Conference, SIU 2022, Safranbolu, Turkey, 15 - 18 May 2022

VIII. Characterization of zebrafish desmin orthologs and incomplete penetrance in CRISPR/Cas9-generated stable knockouts

Kayman Kürekçi G., Kural Mangit E., Sağlam B., Ergin B., Uyanık İ., Korkusuz P., Talim B., Puralı N., Dinçer P. R.

The 2nd Zebrafish Workshop in Turkey, İzmir, Turkey, 18 March 2021

Metrics

Publication: 22

Citation (WoS): 40

Citation (Scopus): 36

H-Index (WoS): 4

H-Index (Scopus): 4