

SCI JOURNAL
PUBLICATIONS

- J1. **Kurkcu, B.**, Kasnakoglu, C. “Robust Autopilot Design Based on a Disturbance/Uncertainty/Coupling Estimator.” *IEEE Transactions on Control System Technology*, 2018.
- J2. **Kurkcu, B.**, Kasnakoglu, C. and Efe, M. O. “Disturbance/Uncertainty Estimator Based Integral Sliding Mode Control.” *IEEE Transactions on Automatic Control*, 2018.
- J3. **Kurkcu, B.**, Kasnakoglu and C., Efe, M. O. “Disturbance/Uncertainty Estimator Based Robust Control of Non-minimum Phase Systems.” *IEEE/ASME Transactions on Mechatronics*, 2018.
- J4. **Kurkcu, B.** and Kasnakoglu. “Robust Temperature Control of a Thermoelectric Cooler via μ -Synthesis” *Journal of Electronic Materials*, 2018.

NON-SCI
JOURNAL
PUBLICATIONS

- NJ1. **Kurkcu, B.**, Kasnakoglu, C. “Estimation of Unknown Disturbances in Gimbal Systems.” *Applied Mechanics and Materials*, 2015

INTERNATIONAL
CONFERENCE
PUBLICATIONS

- IC1. Gunes, U., **Kurkcu, B.**, and Kasnakoglu, C. “A Comparison of \mathcal{H}_∞ -Synthesis and Feedback Linearization for Rotary Inverted Pendulum” *11th International Conference on Mechanical and Aerospace Engineering (ICMAE)*, 2020
- IC2. Akyurek, S., **Kurkcu, B.**, Kasnakoglu, C., and Kaynak, U. “Control Loss Recovery Autopilot Design for Fixed-Wing Aircraft.” *IFAC Papers Online*, 2016
- IC3. Akyurek, S., Ozden, G. S., **Kurkcu, B.**, Kasnakoglu, C., and Kaynak, U. “Design of a flight stabilizer for fixed-wing aircrafts using \mathcal{H}_∞ -loop shaping method.” *9th International Conference on Electrical and Electronics Engineering (ELECO)*, 2015
- IC4. **Kurkcu, B.**, Kasnakoglu, C. “LQG/LTR position control of a BLDC motor with experimental validation.” *9th International Conference on Electrical and Electronics Engineering (ELECO)*, 2015

NATIONAL
CONFERENCE
PUBLICATIONS

- NC1. Buyuksarikulak, M., S., **Kurkcu, B.**, and Karakurt, M. “Effects of Different Disturbance Sources on Stabilization Performance for Two Axis Gimbal Systems.” *TOK Automatic Control National Committee Meeting, Eskisehir, Turkey*, 2016 - In Turkish.
- NC2. **Kurkcu, B.**, Kasnakoglu, C. and Cetin, S. “Optimal State-Space Control of a Brushless DC Motor.” *TOK Automatic Control National Committee Meeting, Kocaeli, Turkey*, 2014 - In Turkish.
- NC3. **Kurkcu, B.**, Celik, M., Cetin, S., and Ozsoy, I. “Modelling, Simulation and Application of a Brushless DC Motor for a Guided System.” *TOK Automatic Control National Committee Meeting-Malatya, Turkey*, 2013 - In Turkish.
- NC4. Kuzucu, A., Bayraktaroglu, Z., Y., **Kurkcu, B.**, and Meric, V. “Propulsion by Undulatory Motion.” *National Mechanics Congress-Kayseri, Turkey*, 2009 - In Turkish.

AWARDS

Academic Awards

- IEEE Turkey Best PhD Thesis Award 2020
- National Mechanics Congress - Best Paper Award 2009