



## Professor Erdinc Altug

### Address

Department of Mechanical Engineering  
Istanbul Technical University  
Inonu Cad. No:65, Beyoglu  
Istanbul, 34437, Turkey

### Contact

altuger@itu.edu.tr  
www.erdincaltug.com  
Office +90 212 293 1300 2469

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## SUMMARY

Professor in Engineering at the Istanbul Technical University; Founder and director of the Autonomous Systems Research Laboratory

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## PUBLICATIONS

### Books and Book Chapters

- Almpak, S., Konyalıođlu, T., İbrahim, H. Ş., and Altuđ, E. (2023). Manufacturing of a Hybrid VTOL UAV Using Rapid Prototyping Techniques, at the book New Technologies and Developments in Unmanned Systems – Proceedings of the International Symposium on Unmanned Systems and The Defense Industry 2022, published by Springer-Nature, ISSN 2730-7778. <https://link.springer.com/book/10.1007/978-3-031-37160-8>
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- Çakmak, Ö., Altuğ, E. Precise Orientation Control of Gimbals with Parametric Variations Using Model Reference Adaptive Controller. Accepted for publication in the IET Control Theory & Applications, 2024.
- Moral, K., Ayran, B. & Altug, E. Design and control of a modular multi-drone system with vertical assemble capability. *Int. J. Dynam. Control* 12, 2991–3004 (2024). <https://doi.org/10.1007/s40435-024-01404-9>
- Altuğ, E., & Türkmen, A. (2022). A Novel Mini Jet Engine Powered Unmanned Aerial Vehicle: Modeling and Control. *Unmanned Systems*, 10(1). <https://doi.org/10.1142/S2301385022500017>
- Acar, O. U., Güvenç, L., & Altuğ, E. (2020). Hardware-in-the-Loop Testing of Automatic Lift Dropping System for Heavy Trucks. *Journal of Intelligent and Robotic Systems: Theory and Applications*, 98(3–4). <https://doi.org/10.1007/s10846-019-01092-0>
- Altuğ, E., Mumucuoğlu, M. E., Yüksel, I. (2020). Design of an Automatic Item Pick-up System for Unmanned Aerial Vehicles”, *Celal Bayar University Journal of Science*, 16(1), p 25-33. <https://doi.org/10.18466/cbayarfbe.529996>
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- Kurt, H. B., & Altuğ, E. (2017). Development of an autonomous UAV platform for advanced research applications. *ACM International Conference Proceeding Series*. <https://doi.org/10.1145/3045714.3045718>
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## Technical Reports

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## Patents and Useful Models (under review)

- Useful Model 2018/11473 Rotor Tilt System for Multi-Rotor Air Vehicles
- Useful Model 2019/13169 Crane Delivery System for Unmanned Aerial Vehicles
- PATENT 2020/01081 Driverless Unmanned and Goods Transport System in Indoor Areas
- Useful Model 2020/01082 System That Provides Communication Between Autonomous Vehicles and People
- Useful Model 2020/05381 Smart Parachute Package Delivery System
- PATENT 2020/1016 An unmanned aerial vehicle with steerable jet engines