

# Tugrul Oktay

## List of Publications by Year in descending order

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Version: 2024-02-01

53  
papers

540  
citations

759233

12  
h-index

794594

19  
g-index

53  
all docs

53  
docs citations

53  
times ranked

237  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Modeling and control of a helicopter slung-load system. <i>Aerospace Science and Technology</i> , 2013, 29, 206-222.  | 4.8 | 47        |
| 2  | Simultaneous quadrotor autopilot system and collective morphing system design. <i>Aircraft Engineering and Aerospace Technology</i> , 2020, 92, 1093-1100.  | 1.2 | 47        |
| 3  | Constrained predictive control of helicopters. <i>Aircraft Engineering and Aerospace Technology</i> , 2013, 85, 32-47.  | 0.8 | 31        |
| 4  | Combined passive and active helicopter main rotor morphing for helicopter energy save. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2016, 38, 1511-1525.  | 1.6 | 27        |
| 5  | Simultaneous Helicopter and Control-System Design. <i>Journal of Aircraft</i> , 2013, 50, 911-925.  | 2.4 | 26        |
| 6  | Simultaneous small UAV and autopilot system design. <i>Aircraft Engineering and Aerospace Technology</i> , 2016, 88, 818-834.   | 1.2 | 26        |
| 7  | Simultaneous Longitudinal and Lateral Flight Control Systems Design for Both Passive and Active Morphing TUVAs. <i>Elektronika Ir Elektrotehnika</i> , 2017, 23, .  | 0.8 | 25        |
| 8  | Comfortable helicopter flight via passive/active morphing. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , 2015, 51, 2876-2886.  | 4.7 | 20        |
| 9  | Neural network based redesign of morphing UAV for simultaneous improvement of roll stability and maximum lift/drag ratio. <i>Aircraft Engineering and Aerospace Technology</i> , 2018, 90, 1203-1212.   | 1.2 | 19        |
| 10 | Maximizing autonomous performance of fixed-wing unmanned aerial vehicle to reduce motion blur in taken images. <i>Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering</i> , 2018, 232, 857-868. | 1.0 | 18        |
| 11 | Flight Control Energy Saving via Helicopter Rotor Active Morphing. <i>Journal of Aircraft</i> , 2014, 51, 1784-1804.  | 2.4 | 15        |
| 12 | Simultaneous autonomous system and powerplant design for morphing quadrotors. <i>Aircraft Engineering and Aerospace Technology</i> , 2022, 94, 1228-1241.   | 1.2 | 15        |
| 13 | Quadrotorlarda Diferansiyel Morphingin Ğleri UĖsuĖya Etkisinin PID AlgoritmasĖ KullanĖlararak Ğncelenmesi. <i>Journal of Aviation</i> , 2020, 4, 15-21.   | 0.5 | 14        |
| 14 | Variance-constrained control of maneuvering helicopters with sensor failure. <i>Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering</i> , 2013, 227, 1845-1858.  | 1.3 | 12        |
| 15 | Performance of minimum energy controllers on tiltrotor aircraft. <i>Aircraft Engineering and Aerospace Technology</i> , 2014, 86, 361-374.  | 0.8 | 11        |
| 16 | Farklı UĖsuĖ Durumları İĖin Quadcopter Dinamik Modeli ve Simulasyonu. <i>European Journal of Science and Technology</i> , 0, , 132-142.   | 0.5 | 10        |
| 17 | Redesign of Morphing UAV for Simultaneous Improvement of Directional Stability and Maximum Lift/ Drag Ratio. <i>Advances in Electrical and Computer Engineering</i> , 2018, 18, 57-62.  | 0.9 | 10        |
| 18 | Quadrotorlarda Yaw Hareketi İĖin EĖzamanlı Olmayan BaĖkalaĖm TasarĖmĖ. <i>Journal of Aviation</i> , 2019, 3, 81-88.   | 0.5 | 9         |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 19 | Helicopter Control Energy Reduction Using Moving Horizontal Tail. Scientific World Journal, The, 2015, 2015, 1-10.   | 2.1 | 8         |
| 20 | A simulation-based method using artificial neural networks for solving the inverse kinematic problem of articulated robots. Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering, 2017, 231, 470-479. | 2.5 | 8         |
| 21 | Integrated Maneuvering Helicopter Model and Controller Design. , 2012, , .   |     | 7         |
| 22 | Effect of the Simultaneous Variation in Blade Root Chord Length and Blade Taper on Helicopter Flight Control Effort. International Journal of Aerospace Engineering, 2017, 2017, 1-8.  | 0.9 | 7         |
| 23 | Improvement of the thrust-torque ratio of an unmanned helicopter by using the ABC algorithm. Aircraft Engineering and Aerospace Technology, 2020, 92, 1133-1139.   | 1.2 | 7         |
| 24 | En uygun gÃ¼vde sÃ¼rÃ¼kleme katsayÃ±sÃ± hesapÃ± iÃ§in yeni bir Ã¶renme algoritmasÃ±. Sakarya University Journal of Science, 2017, 21, 63-63.   | 0.7 | 7         |
| 25 | Lateral Autonomous Performance Maximization of Tactical Unmanned Aerial Vehicles by Integrated Passive and Active Morphing. International Journal of Advanced Research in Engineering, 2017, 3, 1.   | 0.2 | 7         |
| 26 | PID BASED HIERARCHICAL AUTONOMOUS SYSTEM PERFORMANCE MAXIMIZATION OF A HYBRID UNMANNED AERIAL VEHICLE (HUAUV). Anadolu University Journal of Sciences & Technology, 2017, 18, 1-1.   | 0.2 | 7         |
| 27 | Simultaneous Design of a Small UAV (Unmanned Aerial Vehicle) Flight Control System and Lateral State Space Model. Journal of Aviation, 0, , .  | 0.5 | 7         |
| 28 | Quadrotor Flight System Design using Collective and Differential Morphing with SPSA and ANN. International Journal of Intelligent Systems and Applications in Engineering, 2021, 9, 159-164.   | 1.5 | 7         |
| 29 | Combined Quadrotor Autopilot System and Differential Morphing System Design. Journal of Aviation, 0, , .   | 0.5 | 7         |
| 30 | Model Predictive Control of Maneuvering Helicopters. , 2012, , .   |     | 6         |
| 31 | DÃ¼rt Rotorlu Ã°HA Pervanesinde UÃ§uÅŸ HÃ±zÃ± ve DÃ¶nme HÃ±zÃ±nÃ±n Ã°tme KatsayÃ±sÃ± Ã°zerine Etkilerinin SayÃ±sal AraÅŸtÃ±rÃ±lmasÃ±. Journal of Aviation, 2021, 5, 9-15.  | 0.5 | 6         |
| 32 | Quadrotorlarda PID AlgoritmasÃ± Kullanarak Diferansiyel Morphingin YanlamasÃ±na UÃ§uÅŸ Ã°zerine Etkisinin Ã°ncelenmesi. European Journal of Science and Technology, 0, , 636-644.  | 0.5 | 6         |
| 33 | Unmanned Aerial Vehicles (UAVs) According to Engine Type. Journal of Aviation, 0, , .  | 0.5 | 6         |
| 34 | Output variance constrained bending control of rotating Euler-Bernoulli beam. Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering, 2017, 231, 202-211.   | 2.5 | 5         |
| 35 | Maximum lift/drag ratio improvement of TUAVs via small aerodynamic modifications. Aircraft Engineering and Aerospace Technology, 2018, 90, 1438-1444.  | 1.2 | 5         |
| 36 | Combined active flow and flight control systems design for morphing unmanned aerial vehicles. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2019, 233, 5393-5402.                                      | 1.3 | 5         |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 37 | Hexarotor Longitudinal Flight Control with Deep Neural Network, PID Algorithm and Morphing. European Journal of Science and Technology, 0, , .  | 0.5 | 5         |
| 38 | Bağlantı plus Değerinin Etkileri: $\hat{I}^3$ -Re $\hat{I}$ , SST T $\hat{A}$ 1/4rb $\hat{A}$ 1/4lans Modeli Kullanılarak 3D NACA 4412 Kanad $\hat{A}$ n $\hat{A}$ n Say $\hat{A}$ sal Analizi. European Journal of Science and Technology, 0, , 692-702.                           | 0.5 | 5         |
| 39 | Designing, Dynamic Modeling and Simulation of ISTEICOPTER. Journal of Aviation, 0, , .  | 0.5 | 5         |
| 40 | Robustness of variance constrained controllers for complex, control oriented helicopter models. , 2013, , .   |     | 4         |
| 41 | Legal and Ethical Issues of Unmanned Aerial Vehicles. Journal of Aviation, 0, , .   | 0.5 | 4         |
| 42 | Quadrotorlarda Diferansiyel ve Kollektif Morphing ile Yanal Kontrol. Journal of Aviation, 2020, 4, 48-54.   | 0.5 | 4         |
| 43 | Combined outputs variance constrained and input variance constrained design for flight control. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2015, 229, 2196-2204.   | 1.3 | 3         |
| 44 | Constrained control of helicopter vibration to reduce motion blur. Aircraft Engineering and Aerospace Technology, 2018, 90, 1326-1336.  | 1.2 | 2         |
| 45 | D $\hat{A}$ ğner Kanatlı $\hat{A}$ $\hat{A}$ nsans $\hat{A}$ z Hava Arac $\hat{A}$ n $\hat{A}$ n Sistem Tasar $\hat{A}$ m $\hat{A}$ ve Kontrol $\hat{A}$ 1/4. European Journal of Science and Technology, 0, , .  | 0.5 | 2         |
| 46 | Anfis Based Thrust Estimation of a Small Rotary Wing Drone. European Journal of Science and Technology, 0, , 738-742.   | 0.5 | 2         |
| 47 | NACA 4412 Kanad $\hat{A}$ $\hat{A}$ zerinde Bir Emme Kanal $\hat{A}$ Tasarlanmas $\hat{A}$ n $\hat{A}$ n Aerodinamik Etkileri. European Journal of Science and Technology, 0, , 1001-1007.  | 0.5 | 2         |
| 48 | Bağlantı Kanat Ucu Tasar $\hat{A}$ m $\hat{A}$ ve Avantajlar $\hat{A}$ . European Journal of Science and Technology, 0, , 606-610.  | 0.5 | 1         |
| 49 | Stability Evaluation of a Fixed-Wing Unmanned Aerial Vehicle with Morphing Wingtip. Journal of Aviation, 2022, 6, 103-109.  | 0.5 | 1         |
| 50 | Energy Saving via Integrated Passive and Active Morphing During Maneuvers. , 2016, , 297-312.   |     | 0         |
| 51 | HAVACILIK VE UZAY UYGULAMALARINDA $\hat{A}$ ZEK $\hat{A}$ L HAFIZALI ALA $\hat{A}$ ZIMLAR. $\hat{A}$ -mer Halisdemir $\hat{A}$ eniversitesi M $\hat{A}$ 1/4hendislik Bilimleri Dergisi, 0, , 335-349.   | 0.5 | 0         |
| 52 | Autonomous flight performance improvement of the morphing aerial robot by aerodynamic shape redesign. Sakarya University Journal of Science, 0, , 1-1.  | 0.7 | 0         |
| 53 | $\hat{A}$ -zg $\hat{A}$ 1/4n Trikopterin $\hat{A}$ -zellikleri ve Diğ $\hat{A}$ er $\hat{A}$ nsans $\hat{A}$ z Hava Ara $\hat{A}$ lar $\hat{A}$ ile Karğ $\hat{A}$ lağ $\hat{A}$ t $\hat{A}$ r $\hat{A}$ lmas $\hat{A}$ . European Journal of Science and Technology, 0, , 816-825. | 0.5 | 0         |