# Ruxandra Mihaela Botez

## List of Publications by Year
in descending order

| 230 papers | 2,836 citations | 26 h-index (218677) | 38 g-index (315739) |
|---|---|---|---|
| 231 all docs | 231 docs citations | 231 times ranked | 695 citing authors |

| # | Article | IF | Citations |
|---|---------|-----|-----------|
| 1 | Dynamic responses due to the Dryden gust of an autonomous quadrotor UAV carrying a payload. Aeronautical Journal, 2023, 127, 116-138. | 1.6 | 4 |
| 2 | High-fidelity aerodynamic modeling of an aircraft using OpenFoam â€" application on the CRJ700. Aeronautical Journal, 2022, 126, 585-606. | 1.6 | 11 |
| 3 | Cruise Performances Improvement of the Regional Jet CRJ700 using an Adaptive Winglet. , 2022, , . | | 0 |
| 4 | CRJ 700 Aerodynamic Coefficients Identification in Dynamic Stall Conditions using Neural Networks. , 2022, , . | | 4 |
| 5 | New Method for the Flow Modeling around chord-wise Morphing Airfoil. , 2022, , . | | 3 |
| 6 | Overview of Morphing Aircraft and Unmanned Aerial Systems Methodologies and Results â€" Application on the Cessna Citation X, CRJ-700, UAS-S4 and UAS-S45. , 2022, , . | | 8 |
| 7 | Optimization and Design of a Flexible Droop-Nose Leading-Edge Morphing Wing Based on a Novel Black Widow Optimization Algorithmâ€"Part I. Designs, 2022, 6, 10. | 2.4 | 12 |
| 8 | Structural Design of a Morphing Winglet to optimize the Aerodynamic Performance of the CRJ-700 Aircraft. , 2022, , . | | 1 |
| 9 | Editorial for the Special Issue â€œAircraft Modeling and Simulationâ€• Applied Sciences (Switzerland), 2022, 12, 1234. | 2.5 | 0 |
| 10 | Lyapunov-based Robust Adaptive Configuration of the UAS-S4 Flight Dynamics Fuzzy Controller. Aeronautical Journal, 2022, 126, 1187-1209. | 1.6 | 10 |
| 11 | On the Effect of Flexibility on the Dynamics of a Suspended Payload Carried by a Quadrotor. Designs, 2022, 6, 31. | 2.4 | 1 |
| 12 | Multidisciplinary Optimization for Weight Saving in a Variable Tapered Span-Morphing Wing Using Composite Materialsâ€"Application to the UAS-S4. Actuators, 2022, 11, 121. | 2.3 | 6 |
| 13 | Aircraft Mathematical Model Identification for Flight Trajectories and Performance Analysis in Cruise. Journal of Aerospace Information Systems, 2022, 19, 530-549. | 1.4 | 3 |
| 14 | Identification and Validation of the Cessna Citation X Longitudinal Aerodynamic Coefficients in Stall Conditions using Multi-Layer Perceptrons and Recurrent Neural Networks. INCAS Bulletin, 2022, 14, 103-119. | 0.6 | 5 |
| 15 | Performance Improvement of the Regional Jet CRJ700 Aircraft Equipped with Adaptive Winglets. Journal of Aerospace Information Systems, 2022, 19, 677-693. | 1.4 | 1 |
| 16 | Attack and Defense on Aircraft Trajectory Prediction Algorithms. , 2022, , . | | 4 |
| 17 | New atmospheric data model for constant altitude accelerated flight performance prediction calculations and flight trajectory optimization algorithms. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2021, 235, 405-426. | 1.3 | 4 |
| 18 | A Smart Controlled Morphing Wing Experimental Model with the Structure based on a Full-Scaled Portion of a Real Wing. , 2021, , . | | 1 |

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| 19 | Aerodynamic Design Optimization of a Morphing Leading Edge and Trailing Edge Airfoil–Application on the UAS-S45. Applied Sciences (Switzerland), 2021, 11, 1664. | 2.5 | 30 |
| 20 | Dynamics of inverted flags: Experiments and comparison with theory. Journal of Fluids and Structures, 2021, 101, 103199. | 3.4 | 18 |
| 21 | New flight trajectory optimisation method using genetic algorithms. Aeronautical Journal, 2021, 125, 618-671. | 1.6 | 16 |
| 22 | New Numerical and Measurements Flow Analyses Near Radars. Applied Mechanics, 2021, 2, 303-331. | 1.5 | 3 |
| 23 | Wing component allocation for a morphing variable span of tapered wing using finite element method and topology optimisation – application to the UAS-S4. Aeronautical Journal, 2021, 125, 1313-1336. | 1.6 | 5 |
| 24 | New flight plan optimisation method utilising a set of alternative final point arrival time targets (RTA) Tj ETQq0 0 0 rgBT /Overlock 10 Tf | 1.6 | 0 |
| 25 | Aircraft Engine Performance Model Identification using Artificial Neural Networks. , 2021, , . | | 6 |
| 26 | Structural Sizing and Topology Optimization Based on Weight Minimization of a Variable Tapered Span-Morphing Wing for Aerodynamic Performance Improvements. Biomimetics, 2021, 6, 55. | 3.3 | 1 |
| 27 | New Aerodynamic Studies of an Adaptive Winglet Application on the Regional Jet CRJ700. Biomimetics, 2021, 6, 54. | 3.3 | 11 |
| 28 | Morphing Winglet Design for Aerodynamic Performance Optimization of the CRJ-700 Aircraft. Part 1 – Structural Design. INCAS Bulletin, 2021, 13, 113-128. | 0.6 | 3 |
| 29 | Structural Design and Control of a Morphing Winglet to optimize the Aerodynamic Performance of the CRJ-700 Aircraft. Part 2 – Control. INCAS Bulletin, 2021, 13, 129-137. | 0.6 | 1 |
| 30 | Design and experimental testing of a control system for a morphing wing model actuated with miniature BLDC motors. Chinese Journal of Aeronautics, 2020, 33, 1272-1287. | 5.3 | 13 |
| 31 | Novel morphing wing actuator control-based Particle Swarm Optimisation. Aeronautical Journal, 2020, 124, 55-75. | 1.6 | 18 |
| 32 | New Adaptive Algorithm Development for Monitoring Aircraft Performance and Improving Flight Management System Predictions. Journal of Aerospace Information Systems, 2020, 17, 97-112. | 1.4 | 10 |
| 33 | Flapping of heavy inverted flags: a fluid-elastic instability. Journal of Fluid Mechanics, 2020, 904, . | 3.4 | 18 |
| 34 | New Reliability Studies of Data-Driven Aircraft Trajectory Prediction. Aerospace, 2020, 7, 145. | 2.2 | 24 |
| 35 | Blade element momentum new methodology and wind tunnel test performance evaluation for the UAS-S45 BÃlaam propeller. CEAS Aeronautical Journal, 2020, 11, 937-953. | 1.7 | 9 |
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| 37 | New Methodology for Aircraft Performance Model Identification for Flight Management System Applications. Journal of Aerospace Information Systems, 2020, 17, 294-310. | 1.4 | 2 |
| 38 | Airfoils Generation Using Neural Networks, CST Curves and Aerodynamic Coefficients. , 2020, , . | | 2 |
| 39 | Comparison and analyses of a variable span-morphing of the tapered wing with a varying sweep angle. Aeronautical Journal, 2020, 124, 1146-1169. | 1.6 | 16 |
| 40 | Adaptive Fuzzy Control of Chaotic Flapping relied upon Lyapunov-based Tuning Laws. , 2020, , . | | 5 |
| 41 | Disturbance Rejection in Longitudinal Control for the UAS-S4 EhÃ©catl Design. , 2020, , . | | 2 |
| 42 | Design and Validation of a New Morphing Camber System by Testing in the Priceâ€"PaÃ¯doussis Subsonic Wind Tunnel. Aerospace, 2020, 7, 23. | 2.2 | 23 |
| 43 | Commercial Aircraft Trajectory Optimization to Reduce Flight Costs and Pollution: Metaheuristic Algorithms. Lecture Notes in Mechanical Engineering, 2020, , 33-62. | 0.4 | 9 |
| 44 | Aerodynamic Modelling of Unmanned Aerial System through Nonlinear Vortex Lattice Method, Computational Fluid Dynamics and Experimental Validation - Application to the UAS-S45 BÃlaam: Part 1.. INCAS Bulletin, 2020, 12, 91-103. | 0.6 | 8 |
| 45 | Aerodynamic Modelling of Unmanned Aerial System through Nonlinear Vortex Lattice Method, Computational Fluid Dynamics and Experimental Validation - Application to the UAS-S45 BÃlaam: Part 2.. INCAS Bulletin, 2020, 12, 99-115. | 0.6 | 8 |
| 46 | Artificial Neural Networks-Extended Great Deluge Model to predict Actuators Displacements for a Morphing Wing Tip System. INCAS Bulletin, 2020, 12, 13-24. | 0.6 | 6 |
| 47 | Cessna Citation X Takeoff and Departure Trajectories Prediction in Presence of Winds. Journal of Aerospace Information Systems, 2020, 17, 659-681. | 1.4 | 2 |
| 48 | Flight phase and altitude-dependent geometrical vertical flight plan optimization minimizing the total number of vertical plan segments. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2019, 233, 4825-4838. | 1.3 | 6 |
| 49 | Fuzzy Logic-Based Control for a Morphing Wing Tip Actuation System: Design, Numerical Simulation, and Wind Tunnel Experimental Testing. Biomimetics, 2019, 4, 65. | 3.3 | 7 |
| 50 | A new hybrid control methodology for a morphing aircraft wing-tip actuation mechanism. Aeronautical Journal, 2019, 123, 1757-1787. | 1.6 | 9 |
| 51 | Vertical flight profile optimization for a cruise segment with RTA constraints. Aeronautical Journal, 2019, 123, 970-992. | 1.6 | 13 |
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| 53 | Cessna Citation X simulation turbofan modelling: identification and identified model validation using simulated flight tests. Aeronautical Journal, 2019, 123, 433-463. | 1.6 | 14 |
| 54 | Identification and Validation of an Engine Performance Database Model for the Flight Management System. Journal of Aerospace Information Systems, 2019, 16, 307-326. | 1.4 | 16 |

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| 55 | Design, Manufacturing, and Testing of a New Concept for a Morphing Leading Edge using a Subsonic Blow Down Wind Tunnel. Biomimetics, 2019, 4, 76. | 3.3 | 10 |
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| 62 | Four-Dimensional Aircraft En Route Optimization Algorithm Using the Artificial Bee Colony. Journal of Aerospace Information Systems, 2018, 15, 307-334. | 1.4 | 19 |
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| 65 | Vertical flight path segments sets for aircraft flight plan prediction and optimisation. Aeronautical Journal, 2018, 122, 1371-1424. | 1.6 | 11 |
| 66 | Geographical area selection and construction of a corresponding routing grid used for in-flight management system flight trajectory optimization. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2017, 231, 809-822. | 1.3 | 2 |
| 67 | Flight control clearance of the Cessna Citation X using evolutionary algorithms. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2017, 231, 510-532. | 1.3 | 14 |
| 68 | Longitudinal Aerodynamic Coefficients of Hydra Technologies UAS-S4 from Geometrical Data. , 2017, , . | | 6 |
| 69 | Numerical and Experimental Testing of a Morphing Upper Surface Wing Equipped with Conventional and Morphing Ailerons. , 2017, , . | | 2 |
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| 71 | Cessna Citation X Stall Characteristics Identification from Flight Data using Neural Networks. , 2017, , . | | 10 |
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| 77 | Four- and Three-Dimensional Aircraft Reference Trajectory Optimization Inspired by Ant Colony Optimization. Journal of Aerospace Computing, Information, and Communication, 2017, 14, 597-616. | 0.8 | 19 |
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| 79 | Method to Calculate Cessna Citation X Aircraft Climb and Cruise Trajectory using an Aero-Propulsive Model. , 2017, , . | | 6 |
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| 88 | Commercial Aircraft Lateral Flight Reference Trajectory Optimization. IFAC-PapersOnLine, 2016, 49, 1-6. | 0.9 | 10 |
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| 116 | A New Method for Tuning PI Gains for Position Control of BLDC Motor Based Wing Morphing Actuators. , 2015, , . | | 5 |
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| 123 | New Numerical Study of Boundary Layer Behavior on A Morphing Wing-with-Aileron System. , 2014, , . | | 10 |
| 124 | Control strategies for an experimental morphing wing model. , 2014, , . | | 9 |
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| 129 | New Methodology for the Calculation of Aerodynamic Coefficients on ATR-42 Scaled Model With Neural Network â€" EGD Method. , 2014, , . | | 4 |
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| 144 | Onâ€"off and proportionalâ€"integral controller for a morphing wing. Part 2: Control validation â€" numerical simulations and experimental tests. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2012, 226, 146-162. | 1.3 | 32 |

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