Ruxandra Mihaela Botez

List of Publications by Year
in descending order

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

#	Article	IF	Citations
1	Type-2 fuzzy tool condition monitoring system based on acoustic emission in micromilling. Information Sciences, 2014, 255, 121-134.	6.9	81
2	Real Time Morphing Wing Optimization Validation Using Wind-Tunnel Tests. Journal of Aircraft, 2010, 47, 1346-1355.	2.4	80
3	Modeling and Testing of a Morphing Wing in Open-Loop Architecture. Journal of Aircraft, 2010, 47, 917-923.	2.4	76
4	Closed-Loop Control Validation of a Morphing Wing Using Wind Tunnel Tests. Journal of Aircraft, 2010, 47, 1309-1317.	2.4	71
5	Transition Point Detection from the Surface Pressure Distribution for Controller Design. Journal of Aircraft, 2008, 45, 23-28.	2.4	64
6	A hybrid fuzzy logic proportional-integral-derivative and conventional on-off controller for morphing wing actuation using shape memory alloy Part 1: Morphing system mechanisms and controller architecture design. Aeronautical Journal, 2012, 116, 433-449.	1.6	59
7	A new non-linear vortex lattice method: Applications to wing aerodynamic optimizations. Chinese Journal of Aeronautics, 2016, 29, 1178-1195.	5.3	54
8	Closed-Loop Control Simulations on a Morphing Wing. Journal of Aircraft, 2008, 45, 1794-1803.	2.4	50
9	Numerical simulation and wind tunnel tests investigation and validation of a morphing wing-tip demonstrator aerodynamic performance. Aerospace Science and Technology, 2016, 53, 136-153.	4.8	49
10	A hybrid fuzzy logic proportional-integral-derivative and conventional on-off controller for morphing wing actuation using shape memory alloy Part 2: Controller implementation and validation. Aeronautical Journal, 2012, 116, 451-465.	1.6	48
11	Optimization and design of an aircraft's morphing wing-tip demonstrator for drag reduction at low speed, Part I – Aerodynamic optimization using genetic, bee colony and gradient descent algorithms. Chinese Journal of Aeronautics, 2017, 30, 149-163.	5.3	45
12	Fuel burn prediction algorithm for cruise, constant speed and level flight segments. Aeronautical Journal, 2013, 117, 491-504.	1.6	44
13	New Approach for the Identification and Validation of a Nonlinear F/A-18 Model by Use of Neural Networks. IEEE Transactions on Neural Networks, 2010, 21, 1759-1765.	4.2	43
14	Optimization and design of an aircraft's morphing wing-tip demonstrator for drag reduction at low speeds, Part II - Experimental validation using Infra-Red transition measurement from Wind Tunnel tests. Chinese Journal of Aeronautics, 2017, 30, 164-174.	5.3	42
15	Adaptive neuro-fuzzy inference system-based controllers for smart material actuator modelling. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2009, 223, 655-668.	1.3	39
16	Identification of a non-linear F/A-18 model by the use of fuzzy logic and neural network methods. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2011, 225, 559-574.	1.3	39
17	New altitude optimisation algorithm for the flight management system CMA-9000 improvement on the A310 and L-1011 aircraft. Aeronautical Journal, 2013, 117, 787-805.	1.6	36
18	Drag optimisation of a wing equipped with a morphing upper surface. Aeronautical Journal, 2016, 120, 473-493.	1.6	35

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19	Numerical and experimental transition results evaluation for a morphing wing and aileron system. Aeronautical Journal, 2018, 122, 747-784.	1.6	35
20	Experimental validation of a new morphing trailing edge system using Price — Païdoussis wind tunnel tests. Chinese Journal of Aeronautics, 2019, 32, 1353-1366.	5.3	35
21	On–off and proportional–integral controller for a morphing wing. Part 1: Actuation mechanism and control design. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2012, 226, 131-145.	1.3	34
22	On–off and proportional–integral controller for a morphing wing. Part 2: Control validation — 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
23	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
24	Optimization of an Unmanned Aerial System' Wing Using a Flexible Skin Morphing Wing. SAE International Journal of Aerospace, 2013, 6, 115-121.	4.0	29
25	Flight Trajectory Optimization Through Genetic Algorithms for Lateral and Vertical Integrated Navigation. Journal of Aerospace Information Systems, 2015, 12, 533-544.	1.4	29
26	Numerical and experimental validation of a morphed wing geometry using Price-Païdoussis wind-tunnel testing. Aeronautical Journal, 2016, 120, 757-795.	1.6	29
27	New Methodology for Wind Tunnel Calibration Using Neural Networks - EGD Approach. SAE International Journal of Aerospace, 0, 6, 761-766.	4.0	28
28	Methodology for Vertical-Navigation Flight-Trajectory Cost Calculation Using a Performance Database. Journal of Aerospace Information Systems, 2015, 12, 519-532.	1.4	28
29	Flight trajectories optimization under the influence of winds using genetic algorithms. , 2013, , .		25
30	Cessna Citation X Engine Model Identification from Flight Tests. SAE International Journal of Aerospace, 0, 8, 203-213.	4.0	25
31	Tool wear assessment based on type-2 fuzzy uncertainty estimation on acoustic emission. Applied Soft Computing Journal, 2015, 31, 14-24.	7.2	24
32	Proportional fuzzy feed-forward architecture control validation by wind tunnel tests of a morphing wing. Chinese Journal of Aeronautics, 2017, 30, 561-576.	5.3	24
33	Modeling novel methodologies for unmanned aerial systems — Applications to the UAS-S4 Ehecatl and the UAS-S45 Bálaam. Chinese Journal of Aeronautics, 2019, 32, 58-77.	5.3	24
34	New Reliability Studies of Data-Driven Aircraft Trajectory Prediction. Aerospace, 2020, 7, 145.	2.2	24
35	Cessna Citation X Aircraft Global Model Identification from Flight Tests. SAE International Journal of Aerospace, 0, 6, 106-114.	4.0	23
36	Design and Validation of a New Morphing Camber System by Testing in the Price—Païdoussis Subsonic Wind Tunnel. Aerospace, 2020, 7, 23.	2.2	23

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37	Adaptive neuro-fuzzy controllers for an open-loop morphing wing system. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2009, 223, 965-975.	1.3	21
38	New adaptive controller method for SMA hysteresis modelling of a morphing wing. Aeronautical Journal, 2010, 114, 1-13.	1.6	21
39	New helicopter model identification method based on flight test data. Aeronautical Journal, 2011, 115, 295-314.	1.6	21
40	Design and Experimental Validation of a Control System for a Morphing Wing. , 2012, , .		21
41	Design, numerical simulation and experimental testing of a controlled electrical actuation system in a real aircraft morphing wing model. Aeronautical Journal, 2015, 119, 1047-1072.	1.6	21
42	Analysis of UAS-S4 Ã‰hecatl aerodynamic performance improvement using several configurations of a morphing wing technology. Aeronautical Journal, 2016, 120, 1337-1364.	1.6	20
43	Design and wind tunnel experimental validation of a controlled new rotary actuation system for a morphing wing application. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2016, 230, 132-145.	1.3	20
44	Model and controller reduction for flexible aircraft preserving robust performance. IEEE Transactions on Control Systems Technology, 2002, 10, 229-237.	5.2	19
45	Fuzzy Logic Method Use in F/A-18 Aircraft Model Identification. Journal of Aircraft, 2010, 47, 10-17.	2.4	19
46	How the Airfoil Shape of a Morphing Wing Is Actuated and Controlled in a Smart Way. Journal of Aerospace Engineering, 2015, 28, .	1.4	19
47	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
48	New reference trajectory optimization algorithm for a flight management system inspired in beam search. Chinese Journal of Aeronautics, 2017, 30, 1459-1472.	5.3	19
49	Four-Dimensional Aircraft En Route Optimization Algorithm Using the Artificial Bee Colony. Journal of Aerospace Information Systems, 2018, 15, 307-334.	1.4	19
50	Chebyshev Polynomials for Unsteady Aerodynamic Calculations in Aeroservoelasticity. Journal of Aircraft, 2006, 43, 165-171.	2.4	18
51	Novel morphing wing actuator control-based Particle Swarm Optimisation. Aeronautical Journal, 2020, 124, 55-75.	1.6	18
52	Flapping of heavy inverted flags: a fluid-elastic instability. Journal of Fluid Mechanics, 2020, 904, .	3.4	18
53	Dynamics of inverted flags: Experiments and comparison with theory. Journal of Fluids and Structures, 2021, 101, 103199.	3.4	18
54	Variations in Optical Sensor Pressure Measurements due to Temperature in Wind Tunnel Testing. Journal of Aircraft, 2009, 46, 1314-1318.	2.4	17

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55	Development of a High-Fidelity Simulation Model for a Research Environment. , 0, , .		17
56	New methods of optimization of the flight profiles for performance database-modeled aircraft. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2015, 229, 1853-1867.	1.3	17
57	Aerodynamic performance improvement of the UAS-S4 Ã‰hecatl morphing airfoil using novel optimization techniques. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2016, 230, 1164-1180.	1.3	17
58	Improving the UAS-S4 Ã‰hecal airfoil high angles-of-attack performance characteristics using a morphing wing approach. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2016, 230, 118-131.	1.3	17
59	Low-speed aerodynamic characteristics improvement of ATR 42 airfoil using a morphing wing approach. , 2012, , .		16
60	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
61	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
62	New flight trajectory optimisation method using genetic algorithms. Aeronautical Journal, 2021, 125, 618-671.	1.6	16
63	Chaotic Dynamics of Articulated Cylinders in Confined Axial Flow. Journal of Fluids and Structures, 1993, 7, 719-750.	3.4	15
64	Method of Unsteady Aerodynamic Forces Approximation for Aeroservoelastic Interactions. Journal of Guidance, Control, and Dynamics, 2002, 25, 985-987.	2.8	15
65	Aero structural modeling of a wing using CATIA V5 and XFLR5 software and experimental validation using the Price- PaÃ¯doussis wing tunnel. , 2015, , .		15
66	Vertical profile optimization for the Flight Management System CMA-9000 using the golden section search method. , 2012, , .		14
67	Method to Calculate Aircraft VNAV Trajectory Cost Using a Performance Database. , 2014, , .		14
68	Aircraft Vertical Route Optimization Deterministic Algorithm for a Flight Management System. , 0, , .		14
69	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
70	Cessna Citation X Engine Model Identification and Validation in the Cruise Regime from Flight Tests based on Neural Networks combined with Extended Great Deluge Algorithm. , 2017, , .		14
71	Cessna Citation X simulation turbofan modelling: identification and identified model validation using simulated flight tests. Aeronautical Journal, 2019, 123, 433-463.	1.6	14
72	3D Cruise Trajectory Optimization Inspired by a Shortest Path Algorithm. Aerospace, 2020, 7, 99.	2.2	14

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73	Simulation Study of the Aerodynamic Force Distributions on the UAS-S45 Baalam Wing with an Upswept Blended Winglet. INCAS Bulletin, 2019, 11, 21-38.	0.6	14
74	Vertical flight profile optimization for a cruise segment with RTA constraints. Aeronautical Journal, 2019, 123, 970-992.	1.6	13
75	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
76	Three routes to chaos for a three-degree-of-freedom articulated cylinder system subjected to annular flow and impacting on the outer pipe. Nonlinear Dynamics, 1995, 7, 429-450.	5.2	12
77	Identification of F/A-18 model from flight tests using the fuzzy logic method. , 2009, , .		12
78	New methodology and code for Hawker 800XP aircraft stability derivatives calculation from geometrical data. Aeronautical Journal, 2010, 114, 367-376.	1.6	12
79	Fuel burn and emissions evaluation for a missed approach procedure performed by a B737-400. , 2013, , .		12
80	New method to compute the missed approach fuel consumption and its emissions. Aeronautical Journal, 2016, 120, 910-929.	1.6	12
81	Design and Validation of a Position Controller in the Price-Paï¯doussis Wind Tunnel. , 2014, , .		12
82	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
83	Generic New Modeling Technique for Turbofan Engine Thrust. Journal of Propulsion and Power, 2013, 29, 1492-1495.	2.2	11
84	A hybrid original approach for prediction of the aerodynamic coefficients of an ATR-42 scaled wing model. Chinese Journal of Aeronautics, 2016, 29, 41-52.	5.3	11
85	New control methodology for a morphing wing demonstrator. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2018, 232, 1479-1494.	1.3	11
86	Vertical flight path segments sets for aircraft flight plan prediction and optimisation. Aeronautical Journal, 2018, 122, 1371-1424.	1.6	11
87	New Aerodynamic Studies of an Adaptive Winglet Application on the Regional Jet CRJ700. Biomimetics, 2021, 6, 54.	3.3	11
88	High-fidelity aerodynamic modeling of an aircraft using OpenFoam â€" application on the CRJ700. Aeronautical Journal, 2022, 126, 585-606.	1.6	11
89	A gain scheduling approach for a flexible aircraft. , 2002, , .		10
90	Identification of a MIMO state space model of an F/A-18 aircraft using a subspace method. Aeronautical Journal, 2009, 113, 183-190.	1.6	10

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91	Evolutionary Algorithms for Robust Cessna Citation X Flight Control. , 0, , .		10
92	New Numerical Study of Boundary Layer Behavior on A Morphing Wing-with-Aileron System. , 2014, , .		10
93	Commercial Aircraft Lateral Flight Reference Trajectory Optimization. IFAC-PapersOnLine, 2016, 49, 1-6.	0.9	10
94	Cessna Citation X Stall Characteristics Identification from Flight Data using Neural Networks. , 2017, , .		10
95	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
96	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
97	Lyapunov-based Robust Adaptive Configuration of the UAS-S4 Flight Dynamics Fuzzy Controller. Aeronautical Journal, 2022, 126, 1187-1209.	1.6	10
98	Identification of an F/A-18 Nonlinear Model Between Control and Structural Deflections. , 2009, , .		9
99	Control strategies for an experimental morphing wing model. , 2014, , .		9
100	A new hybrid control methodology for a morphing aircraft wing-tip actuation mechanism. Aeronautical Journal, 2019, 123, 1757-1787.	1.6	9
101	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
102	Commercial Aircraft Trajectory Optimization to Reduce Flight Costs and Pollution: Metaheuristic Algorithms. Lecture Notes in Mechanical Engineering, 2020, , 33-62.	0.4	9
103	DYNAMICS OF AN ARTICULATED CYLINDER IN ANNULAR FLOW VIA NON-LINEAR AND PARTIALLY LINEARIZED VERSIONS OF AN ANALYTICAL MODEL. Journal of Sound and Vibration, 1996, 192, 645-668.	3.9	8
104	Approximation of Unsteady Aerodynamic Forces Q(k,M) by Use of Fuzzy Techniques. AIAA Journal, 2005, 43, 2093-2099.	2.6	8
105	New Mixed Method for Unsteady Aerodynamic Force Approximations for Aeroservoelasticity Studies. Journal of Aircraft, 2006, 43, 1538-1542.	2.4	8
106	An Intelligent Controller based Fuzzy Logic Techniques for a Morphing Wing Actuation System using Shape Memory Alloy. , 2011, , .		8
107	Application of a Morphing Wing Technology on Hydra Technologies Unmanned Aerial System UAS-S4. , 2014, , .		8
108	Numerical Optimization and Experimental Testing of a Morphing Wing with Aileron System. , 2016, , .		8

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109	Identification and Validation of the Cessna Citation X Engine Component Level Modeling with Flight Tests. , 2017, , .		8
110	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
111	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
112	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
113	New Methodologies for Aircraft Stability Derivatives Determination from Its Geometrical Data. , 2009, , .		7
114	Transition-Flow-Occurrence Estimation: A New Method. Journal of Aircraft, 2010, 47, 703-708.	2.4	7
115	Control of Actuation System Based Smart Material Actuators in a Morphing Wing Experimental Model. , 2013, , .		7
116	Cessna Citation X Airplane Grey-Box Model Identification without Preliminary Data. , 2014, , .		7
117	Aircraft Vertical Reference Trajectory Optimization With a RTA Constraint Using the ABC Algorithm. , 2016, , .		7
118	Aircraft Vertical Route Optimization by Beam Search and Initial Search Space Reduction. Journal of Aerospace Information Systems, 2018, 15, 157-171.	1.4	7
119	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
120	Performance Databade Creation using a Level D Simulator for Cessna Citation X Aircraft in Cruise Regime. , 2015, , .		7
121	Robust Stabilization of Uncertain Aircraft Active Systems. JVC/Journal of Vibration and Control, 2005, 11, 187-200.	2.6	6
122	Identification of structural surfaces' positions on an F/A-18 using the subspace identification method from flight flutter tests. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2007, 221, 719-731.	1.3	6
123	Unsteady Aerodynamic Forces Mixed Method for Aeroservoelasticity Studies on an F/A-18 Aircraft. Journal of Aircraft, 2007, 44, 1378-1383.	2.4	6
124	New methodology combining neural network and extended great deluge algorithms for the ATR-42 wing aerodynamics analysis. Aeronautical Journal, 2016, 120, 1049-1080.	1.6	6
125	Longitudinal Aerodynamic Coefficients of Hydra Technologies UAS-S4 from Geometrical Data. , 2017, , .		6
126	Semi-empirical estimation and experimental method for determining inertial properties of the Unmanned Aerial System â€" UAS-S4 of Hydra Technologies. Aeronautical Journal, 2017, 121, 1648-1682.	1.6	6

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127	Method to Calculate Cessna Citation X Aircraft Climb and Cruise Trajectory using an Aero-Propulsive Model. , 2017, , .		6
128	Methodology of Estimation of Aerodynamic Coefficients of the UAS-E4 EhÃ©catl using Datcom and VLM Procedure. , 2017, , .		6
129	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
130	Aircraft Engine Performance Model Identification using Artificial Neural Networks. , 2021, , .		6
131	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
132	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
133	Optimal flight control on the hawker 800 XP business aircraft. , 2012, , .		5
134	Micro-electromechanical systems gyro performance improvement through bias correction over temperature using an adaptive neural network-trained fuzzy inference system. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2012, 226, 1121-1138.	1.3	5
135	Unmanned Aerial System Hydra Technologies Ã‰hecatl wing optimization using a morphing approach. , 2013, , .		5
136	Construction of an aircraft's VNAV flight envelope for in-FMS flight trajectory computation and optimization. , 2014, , .		5
137	A New Method for Tuning PI Gains for Position Control of BLDC Motor Based Wing Morphing Actuators. , 2015, , .		5
138	Self-adaptive morphing wing model, smart actuated and controlled by using a multiloop controller based on a laminar flow real time optimizer. , 2016, , .		5
139	Design, Development and Validation of a Cessna Citation X Aerodynamic Model using OpenVSP Software. , 2018, , .		5
140	Adaptive Fuzzy Control of Chaotic Flapping relied upon Lyapunov-based Tuning Laws. , 2020, , .		5
141	Wing component allocation for a morphing variable span of tapered wing using finite element method and topology optimisation â€" application to the UAS-S4. Aeronautical Journal, 2021, 125, 1313-1336.	1.6	5
142	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
143	Ground Dynamics Model Validation by Use of Landing Flight Test. Journal of Aircraft, 2007, 44, 2063-2068.	2.4	4
144	Method Based on Chebyshev Polynomials for Aerservoelastic Interactions on an F/A-18 Aircraft. Journal of Aircraft, 2007, 44, 330-333.	2.4	4

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145	Modeling of Structural Deflections on a F/A-18 Aircraft Following Flight Flutter Tests by Use of Subspace Identification Method. , 2007, , .		4
146	THE BIAS TEMPERATURE DEPENDENCE ESTIMATION AND COMPENSATION FOR AN ACCELEROMETER BY USE OF THE NEURO-FUZZY TECHNIQUES. Transactions of the Canadian Society for Mechanical Engineering, 2008, 32, 383-400.	0.8	4
147	Civil turbofan engines thrust generic model. , 2012, , .		4
148	A new method to reduce the noise of the miniaturised inertial sensors disposed in redundant linear configurations. Aeronautical Journal, 2013, 117, 111-132.	1.6	4
149	New Methodology for the Calculation of Aerodynamic Coefficients on ATR-42 Scaled Model With Neural Network â€" EGD Method. , 2014, , .		4
150	Systemic modeling and design approach for morphing wing aileron controller using Matlab/Simulink. , 2015, , .		4
151	Control validation of a morphing wing in an open loop architecture. , 2015, , .		4
152	Experimental Validation of an Optimized Wing Geometry Using Small Wind Tunnel Testing. , 2015, , .		4
153	Trajectory Optimization for vertical navigation using the Harmony Search algorithm. IFAC-PapersOnLine, 2016, 49, 11-16.	0.9	4
154	New Methodology for Longitudinal Flight Dynamics Modelling of the UAS-S4 Ehecatl towards its Aerodynamics Estimation Modelling. , 2017, , .		4
155	Identification and Validation of the Cessna Citation X Turbofan Modelling with Flight Tests. , 2018, , .		4
156	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
157	CRJ 700 Aerodynamic Coefficients Identification in Dynamic Stall Conditions using Neural Networks. , 2022, , .		4
158	Stabilisation, tracking and disturbance rejection control design for the UAS-S45 BÃ¡laam. Aeronautical Journal, 0, , 1-23.	1.6	4
159	Dynamic responses due to the Dryden gust of an autonomous quadrotor UAV carrying a payload. Aeronautical Journal, 2023, 127, 116-138.	1.6	4
160	Attack and Defense on Aircraft Trajectory Prediction Algorithms. , 2022, , .		4
161	Method for Flutter Aeroservoelastic Open Loop Analysis. , 2002, , 547.		3
162	Approximations of unsteady aerodynamic forces for closed loop flutter aeroservoelasticity studies. , 2006, , .		3

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163	Improved Method for Creating Time-Domain Unsteady Aerodynamic Models. Journal of Aerospace Engineering, 2007, 20, 204-208.	1.4	3
164	Adaptive Neuro-Fuzzy Controllers for an Open Loop Morphing Wing System. , 2009, , .		3
165	MODELING AND NUMERICAL SIMULATION OF AN ALGORITHM FOR THE INERTIAL SENSORS ERRORS REDUCTION AND FOR THE INCREASE OF THE STRAP-DOWN NAVIGATOR REDUNDANCY DEGREE IN A LOW COST ARCHITECTURE. Transactions of the Canadian Society for Mechanical Engineering, 2010, 34, 1-16.	0.8	3
166	Controller optimization in real time for a morphing wing in a Wind Tunnel. , 2010, , .		3
167	A New Morphing Wing Mechanism Using Smart Actuators Controlled by a Self-Tuning Fuzzy Logic Controller. , 2011, , .		3
168	Two-dimensional airfoil shape optimization for airfoils at low speeds. , 2012, , .		3
169	Application of the weight function method on a high incidence research aircraft model. Aeronautical Journal, 2013, 117, 897-912.	1.6	3
170	Analysis of the Aerodynamic Performance of a Morphing Wing-Tip Demonstrator Using a Novel Nonlinear Vortex Lattice Method. , 2016, , .		3
171	A Genetic Algorithm Optimization Method for a Morphing Wing Tip Demonstrator Validated Using Infra Red Experimental Data. , 2016, , .		3
172	Control Techniques for a Smart Actuated Morphing Wing Model: Design, Numerical Simulation and Experimental Validation. , 2018, , 351-397.		3
173	New Numerical and Measurements Flow Analyses Near Radars. Applied Mechanics, 2021, 2, 303-331.	1.5	3
174	Design and Experimental Validation of a Combined PI and Bi-Positional Laws Controller for Delaying the Transition from Laminar Flow to Turbulent Flow over a Morphing Wing. Lecture Notes in Electrical Engineering, 2011, , 51-76.	0.4	3
175	New Method for the Flow Modeling around chord-wise Morphing Airfoil. , 2022, , .		3
176	Morphing Winglet Design for Aerodynamic Performance Optimization of the CRJ-700 Aircraft. Part 1 â€" Structural Design. INCAS Bulletin, 2021, 13, 113-128.	0.6	3
177	Aircraft Mathematical Model Identification for Flight Trajectories and Performance Analysis in Cruise. Journal of Aerospace Information Systems, 2022, 19, 530-549.	1.4	3
178	Closed-Loop Aeroservoelastic Analysis Validation Method. Journal of Aircraft, 2004, 41, 962-964.	2.4	2
179	Approximation of unsteady aerodynamic forces Q(k,M) by use of fuzzy techniques. , 2005, , .		2
180	Aerodynamic forces based on an error analytical formulation for aeroservoelasticity studies on an F/A-18 aircraft. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2006, 220, 421-428.	1.3	2

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181	Aeroservoelasticity Analysis Method Based on an Error Analytical Form Applied on a Business Aircraft. JVC/Journal of Vibration and Control, 2008, 14, 1217-1230.	2.6	2
182	Rigid and Control Modes Aerodynamic Unsteady Forces Aeroservoelastic Modeling. Journal of Guidance, Control, and Dynamics, 2008, 31, 1372-1385.	2.8	2
183	Neuro-Fuzzy Controller for SMAs for a Morphing Wing Application. , 2010, , .		2
184	Generic New Modelling Technique for Turbofan Engines Thrust. , 2012, , .		2
185	New Methodology for the Prediction of the Aerodynamic Coefficients of an ATR-42 Scaled Wing Model. , 2014, , .		2
186	Weight functions method for stability analysis applied as design tool for Hawker 800XP aircraft. Aeronautical Journal, 2015, 119, 981-998.	1.6	2
187	New methodology for the controller of an electrical actuator for morphing a wing. , 2015, , .		2
188	Geometrical Vertical Trajectory Optimization â€" Comparative Performance Evaluation of Phase versus Phase and Altitude-Dependent Preferred Gradient Selection. IFAC-PapersOnLine, 2016, 49, 17-22.	0.9	2
189	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
190	Numerical and Experimental Testing of a Morphing Upper Surface Wing Equipped with Conventional and Morphing Ailerons. , 2017, , .		2
191	New Methodology for Aircraft Performance Model Identification for Flight Management System Applications. Journal of Aerospace Information Systems, 2020, 17, 294-310.	1.4	2
192	Airfoils Generation Using Neural Networks, CST Curves and Aerodynamic Coefficients. , 2020, , .		2
193	Disturbance Rejection in Longitudinal Control for the UAS-S4 EhÃ©catl Design. , 2020, , .		2
194	Cessna Citation X Takeoff and Departure Trajectories Prediction in Presence of Winds. Journal of Aerospace Information Systems, 2020, 17, 659-681.	1.4	2
195	Calculus Model for a Rolling Guided Missile. JVC/Journal of Vibration and Control, 2001, 7, 863-889.	2.6	1
196	Ground Dynamics Model Validation by Use of Landing Flight Test Data. , 2006, , .		1
197	Simulation and prediction of main rotor, tail rotor, and engine parameters from flight tests. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2008, 222, 817-834.	1.3	1
198	Method for aerodynamic unsteady forces time calculations on an F/A-18 aircraft. Aeronautical Journal, 2008, 112, 27-32.	1.6	1

#	Article	IF	Citations
199	Weight Functions Method application on a delta-wing X-31 configuration. , 2012, , .		1
200	Weight functions method for stability analysis: applications and experimental validation for Hawker 800XP Aircraft. , 2012, , .		1
201	New methodology for a business aircraft model Hawker 800 XP stability analysis using Presagis FLsim. , 2012, , .		1
202	Numerical study of UAS-S4 Ã‰hecatl aerodynamic performance improvement obtained with the use of a morphing wing approach. , 2015, , .		1
203	A wind tunnel tested control system for a morphing wing actuation mechanism. , 2016, , .		1
204	A Smart Controlled Morphing Wing Experimental Model with the Structure based on a Full-Scaled Portion of a Real Wing. , 2021, , .		1
205	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
206	Aircraft X-31 Stability Analysis and Validation with Experimental Data. , 2012, , .		1
207	Particle Swarm Optimization with Required Time of Arrival Constraint for Aircraft Trajectory. SAE International Journal of Aerospace, 0, 13, 269-291.	4.0	1
208	Structural Design of a Morphing Winglet to optimize the Aerodynamic Performance of the CRJ-700 Aircraft. , 2022, , .		1
209	Structural Design and Control of a Morphing Winglet to optimize the Aerodynamic Performance of the CRJ-700 Aircraft. Part 2 â€" Control. INCAS Bulletin, 2021, 13, 129-137.	0.6	1
210	On the Effect of Flexibility on the Dynamics of a Suspended Payload Carried by a Quadrotor. Designs, 2022, 6, 31.	2.4	1
211	Performance Improvement of the Regional Jet CRJ700 Aircraft Equipped with Adaptive Winglets. Journal of Aerospace Information Systems, 2022, 19, 677-693.	1.4	1
212	New Technique for a Helicopter Flight Model Estimation Based on Flight Test Data. , 2006, , .		0
213	Validation of a Ground Dynamics Model Formulation By use of Landing Data. , 2006, , .		0
214	NUMERICAL AND EXPERIMENTAL STUDY OF AN ALGORITHM OF ATTITUDE FOR A STRAP-DOWN INERTIAL SYSTEM. Transactions of the Canadian Society for Mechanical Engineering, 2006, 30, 429-442.	0.8	0
215	Flight dynamics helicopter model validation based on flight test data. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2007, 221, 757-765.	1.3	0
216	Relationships between flying qualities and flight tests parameters for the F/A-18 aircraft. Aeronautical Journal, 2007, 111, 281-282.	1.6	0

#	Article	IF	Citations
217	Poster abstract: Precision improvement of aircrafts attitude estimation through gyro sensors data fusion in a redundant inertial measurement unit. , 2014, , .		0
218	Numerical optimization of the S4 Ã‰hecatl UAS airfoil using a morphing wing approach. , 2014, , .		0
219	Numerical and experimental validation of a morphed wing geometry using Price-PaÃ¯doussis wind-tunnel testing â€" CORRIGENDUM. Aeronautical Journal, 2016, 120, 1335-1335.	1.6	0
220	Aerodynamic analysis of upper surface wing morphing efficiency for the S4 Ã‰hecatl unmanned aerial system. , 2016, , .		0
221	Open loop morphing wing architecture based ANFIS controller. , 2016, , .		0
222	Accuracy of Two Nonlinear Finite Wing Models in the Aerodynamic Prediction of Wing Sweep Effects. , 2017, , .		0
223	New flight plan optimisation method utilising a set of alternative final point arrival time targets (RTA) Tj ETQq1 1 0.784314 rgBT /Overlock	1.6	0
224	Aerodynamic Forces Approximations Calculated With a New Analytical Formulation. , 2006, , .		0
225	Miniaturized Inertial Sensors' Noise Reduction by using Redundant Linear Configurations. , 2011, , .		0
226	Intelligent Control of a Morphing Wing Part 2: Validation Phase. , 2011, , .		0
227	Intelligent Control of a Morphing Wing Part 1: Design Phase. , 2011, , .		0
228	A Numerical Implemented Method for the Aircraft Attitude Determination. , 2012, , .		0
229	Cruise Performances Improvement of the Regional Jet CRJ700 using an Adaptive Winglet. , 2022, , .		0
230	Editorial for the Special Issue â€œAircraft Modeling and Simulationâ€. Applied Sciences (Switzerland), 2022, 12, 1234.	2.5	0