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Section 1 – Aerodynamics

(in alphabetical order of the first author)

No.	Author(s)	Title of paper	Section number	Company
1	Yassir ABBAS ^{*1} , Ahmed ABBAS ² , Qussay ALSANOSS ²	Evaluation of the Cmark Panel Method Software for the Solution of Flow Around Airfoils	1	¹ Aeronautical Engineering Department, Engineering College, Karary University, Khartoum, Sudan ² Aeronautical Research Centre, Khartoum, Sudan
2	Sorin ARSENE*, Ioan SEBESAN	Study on the aerodynamic forces acting on a passenger train consisting of two railcars Siemens Desiro	1	"POLITEHNICA" University of Bucharest, Transport Faculty, Depart Rolling Stock Railway, Splaiul Independentei no. 313, Sector 6, 060042, Bucharest, Romania
3	Agneta M. BALINT ¹ , Stefan BALINT ^{*2}	Numerical illustration of the global and local stability and instability of the constant spatially developing 1D gas flow	1	¹ West University of Timisoara, Department of Physics, Bulv. V.Parvan 4, 300223 Timisoara, Romania ² West University of Timisoara, Department of Computer Science, Bulv. V.Parvan 4, 300223 Timisoara, Romania
4	Agneta M. BALINT ¹ , Stefan BALINT ^{*2}	Numerical illustration of the global and local stability and instability of the constant spatially developing 2D gas flow	1	¹ West University of Timisoara, Department of Physics, Bulv. V.Parvan 4, 300223 Timisoara, Romania ² West University of Timisoara, Department of Computer Science, Bulv. V.Parvan 4, 300223 Timisoara, Romania
5	Alina BOGOI, Dragos ISVORANU, Sterian DANAILA*	Assessment of some high-order finite difference schemes on the scalar conservation law with periodical conditions	1	"POLITEHNICA" University of Bucharest, Department of Aerospace Engineering, Splaiul Independentei 313, 060042, Bucharest, Romania
6	Valentin Adrian Jean BUTOESCU	Influence of the Rigid Wind Tunnel Walls on a Harmonically Oscillating Wing	1	INCAS – National Institute for Aerospace Research "Elie Carafoli", B-dul Iuliu Maniu 220, Sector 6, Bucharest 061126, Romania

7	Andreea CERNAT, Alexandru IONEL, Irina-Carmen ANDREI, Stefan PALAS, Adrian MIHAI, Tiberiu SALAORU	Simulation Tool for Predicting Ground Test Performance of a Turbofan Propulsion System Air Inlet	1	INCAS – National Institute for Aerospace Research “Elie Carafoli”, B-dul Iuliu Maniu 220, Sector 6, Bucharest 061126, Romania
8	Marius Gabriel COJOCARU*, Mihai Leonida NICULESCU, Dumitru PEPELEA Mihaita Gilbert STOICAN, Mihai Victor PRICOP	Ice Accretion Prediction for 2D Geometries in the Presence of Ice Crystals	1	INCAS – National Institute for Aerospace Research “Elie Carafoli”, Flow Physics Department, Numerical Simulation Unit, B-dul Iuliu Maniu 220, Bucharest 061136, Romania
9	Alexandru DUMITRACHE, Florin FRUNZULICA, Alexandru MITREA	Hybrid Methods for Design and Analysis for Small UAV Rotor Blades	1	“Gheorghe Mihoc – Caius Iacob” Institute of Mathematical Statistics and Applied Mathematics of the Romanian Academy, Bucharest, Calea 13 Septembrie no. 13, 050711 Bucharest, Romania “POLITEHNICA” University of Bucharest, Faculty of Aerospace Engineering, Gh. Polizu Street 1-5, 011061, Bucharest, Romania
10	Florin FRUNZULICĂ ^{*1,2} , Ciprian OLTEANU ³	Numerical Investigation of a Vertical-Axis Wind Turbine with Variable-Pitch	1	¹ POLITEHNICA University of Bucharest, Faculty of Aerospace Engineering, Polizu 1-6, RO-011061, Bucharest, Romania ² Institute of Statistics and Applied Mathematics, 13 Septembrie 13, sect.5, RO-050711, Bucharest, Romania ³ Turbomecanica S.A., Iuliu Maniu 244, sect 6, RO-061126, Bucharest, Romania
11	Alexandru IONEL, Mihaela NASTASE	QUASI-3D 1D Quasi-Steady Flow Solid Rocket Motor Grain Burnback Analysis	1	INCAS – National Institute for Aerospace Research “Elie Carafoli”, B-dul Iuliu Maniu 220, Sector 6, Bucharest 061126, Romania
12	Mihaela NASTASE, Alexandru IONEL	2D 0-D Unsteady Flow Numerical Modelling of Solid Rocket Motor Grain Burnback of Complex Propellant Geometries	1	INCAS – National Institute for Aerospace Research “Elie Carafoli”, B-dul Iuliu Maniu 220, Sector 6, Bucharest 061126, Romania

13	Mihai Leonida NICULESCU, Maria Cristina FADGYAS, Marius Gabriel COJOCARU, Mihai Victor PRICOP, Dumitru PEPELEA, Mihaita Gilbert STOICAN	Hypersonic Aerodynamics for Several Test Cases	1	INCAS – National Institute for Aerospace Research “Elie Carafoli”, B-dul Iuliu Maniu 220, Sector 6, Bucharest 061126, Romania
14	Doru SAFTA ¹ , Ioan ION ²	Towards The Effects of Initial Grain Temperatures and Erosive Burning on Homogeneous Solid Propellant Combustion	1	¹ MTA - Military Technical Academy, B-dul George Cosbuc 81-83, Bucharest 050141, Romania ² University “Eftimie Murgu”, Piata Traian Vuia 1-4, Resita 320085, Romania
15	Virgil STANCIU, Cristina PAVEL	Holistic Treatment of Double Flow Turbofan Performance Using Harmonic Hyperbolic Law	1	“POLITEHNICA” University of Bucharest, Faculty of Aerospace Engineering, Gh. Polizu Street 1-5, 011061, Bucharest, Romania
16	Marius STOIA-DJESKA	The Development of a Reduced Order Model for The Aeroelastic Analysis of a Test Wing Used for Wind-Tunnel Aeroelastic Experiments	1	“POLITEHNICA” University of Bucharest, Faculty of Aerospace Engineering, Gh. Polizu Street 1-5, 011061, Bucharest, Romania