

International Conference of Aerospace Sciences

"AEROSPATIAL 2016"

26 - 27 October 2016, Bucharest, Romania

Final List of participants with papers accepted - 05.10.2016

Plenary Lectures

(in alphabetical order of the first author)

| No. | Author(s) | Title of paper | Section | Company |
|-----|--|---|---------|--|
| 1 | Adi ADUMITROAIE | Synergy between Safety Concepts and Damage Tolerance Capabilities of FRP Composite Structures | PL | Institute for Constructional Lightweight Design, JOHANNES KEPLER, UNIVERSITY LINZ, Altenberger Straße 69, Science Park I, MT0220, 4040 Linz, Austria |
| 2 | Yassir ABBAS | Aerodynamic of Damaged Aircraft | PL | Aeronautical Engineering Department, Engineering College, Karary University, Khartoum, Sudan |
| 3 | Hans BARNERSSOI | Setting up of a Fast Rotorcraft Project. Experience gained by a Project Manager. | PL | Ex-Project Manager, Airbus Helicopters Germany, Industriestrasse 4, 86609 Donauwörth, Germany |
| 4 | Ruxandra Mihaela BOTEZ | New Methodologies for Missed Approach Computing in Terms of Fuel Consumption and Emissions for a Boeing B-737-400 | PL | ETS, University of Quebec, Laboratory of Applied Research in Active Controls, Avionics and AeroServoElasticity LARCASE (www.larcase.etsmtl.ca), 1100 Notre Dame West, Montreal, Canada |
| 5 | Eric COUSTOLS | Review of Research Activities conducted at ONERA on Laminar Flows and Wing Buffet Control | PL | Director of Clean Sky 2 Programme at ONERA, ONERA Centre of Toulouse, 2 Avenue Edouard Belin FR-31055 Toulouse CEDEX 4 |
| 6 | Horia DUMITRESCU, Vladimir CARDOS | Issues of Paradigmatic Nature of Origin of Turbulence | PL | "Gheorghe Mihoc – Caius Iacob" Institute of Mathematical Statistics and Applied Mathematics of the Romanian Academy, Calea 13 Septembrie no. 13, 050711 Bucharest, Romania |
| 7 | Adriana NASTASE | Theoretical and Experimental Exploration of Supersonic Flow (Part 1) | PL | RWTH, Aachen University, Germany |
| 8 | Octavian Thor PLETER, Cristian Emil CONSTANTINESCU | Global Air and Maritime Co-operative Surveillance | PL | "POLITEHNICA" University of Bucharest, Faculty of Aerospace Engineering, Gh. Polizu Street 1-5, 011061, Bucharest, Romania |
| 9 | Virgil STANCIU | Design, the Way to Aerospace Metaengineering | PL | "POLITEHNICA" University of Bucharest, Faculty of Aerospace Engineering, Gh. Polizu Street 1-5, 011061, Bucharest, Romania |
| 10 | Jochen WILD | On the most common misunderstandings of high-lift flows | PL | German Aerospace Center, Institute of Aerodynamics and Flow Technology, Lilienthalplatz 7, 38108 Braunschweig, Germany |

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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 |

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| 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 |

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| 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 |

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Section 2 – Flight Mechanics and Systems Integration

(in alphabetical order of the first author)

| No. | Author(s) | Title of paper | Section number | Company |
|-----|--|--|----------------|---|
| 1 | Yassir ABBAS ¹ , Mohammed MADBOULI ² , Gamal EL-BAYOUMI ² | Direct Spatial Motion Simulation of Aircraft Subjected to Engine Failure | 2 | ¹ Aeronautical Engineering Department, Engineering College, Karary University, Khartoum, Sudan ² Aeronautical Engineering Department, Engineering College, Cairo University, Giza State, Egypt |
| 2 | Radu BLIDERAN, Alexandru IONEL, Mihaela NASTASE | Efficiency Analysis of Earth-Mars Interplanetary Travel Using a Solar Sail Propulsion Device | 2 | INCAS – National Institute for Aerospace Research “Elie Carafoli”, B-dul Iuliu Maniu 220, Sector 6, Bucharest 061126, Romania |
| 3 | Bogdan DOBRESCU, Radu BLIDERAN, Adrian CHELARU | Decelerator systems for the atmospheric reentry of launcher upper stages | 2 | INCAS – National Institute for Aerospace Research “Elie Carafoli”, B-dul Iuliu Maniu 220, Sector 6, Bucharest 061126, Romania |
| 4 | Alexandru IONEL, Stefan PALAS, Irina-Carmen ANDREI | Performance Analysis of the IAR 99 SOIM and IAR 99 TD Propulsion Systems | 2 | INCAS – National Institute for Aerospace Research “Elie Carafoli”, B-dul Iuliu Maniu 220, Sector 6, Bucharest 061126, Romania |
| 5 | Achim IONITA ¹ , Andreea-Irina AFLOARE ² | Analysis of Dynamic Stability on Ground Roll for a Jet Transport Under Crosswind and Slippery Conditions | 2 | ¹ AEROSPACE Consulting, B-dul Iuliu Maniu 220, Sector 6, Bucharest 061126, Romania ² INCAS – National Institute for Aerospace Research “Elie Carafoli”, B-dul Iuliu Maniu 220, Sector 6, Bucharest 061126, Romania |
| 6 | Florin MINGIREANU ¹ , Marius STOIA-DJESKA ² | A Local Sensitivity Analysis of Some Performances of Reactive Projectiles, Rockets and Missiles | 2 | ¹ Romanian Space Agency, Mendeleev Street, nr. 21-25, Bucharest, 010362/ Romania ² “POLITEHNICA” University of Bucharest, Faculty of Aerospace Engineering, Polizu Street 1-7, postal code 011061, sector 1, Bucharest |

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| 7 | Mihaela NASTASE, Radu BLIDERAN, Alexandru IONEL | Numerical Simulation on the Efficiency of Propulsion Systems as Leo Deorbiting Devices | 2 | INCAS – National Institute for Aerospace Research “Elie Carafoli”, B-dul Iuliu Maniu 220, Sector 6, Bucharest 061126, Romania |
| 8 | Ana-Maria NECULAESCU ¹ , Ion STROE ² | A Preliminary Tool for Trajectory Optimization for a Small Launcher | 2 | ¹ INCAS – National Institute for Aerospace Research “Elie Carafoli”, B-dul Iuliu Maniu 220, Sector 6, Bucharest 061126, Romania ² “POLITEHNICA” University of Bucharest, 313 Splaiul Independenței, Bucharest 060042, Romania |
| 9 | Dumitru PEPELEA, Marius Gabriel COJOCARU, Mihai Victor PRICOP, Mihai Leonida NICULESCU | Dynamic Stability of Earth Re-Entry Capsule | 2 | INCAS – National Institute for Aerospace Research “Elie Carafoli”, B-dul Iuliu Maniu 220, Sector 6, Bucharest 061126, Romania |

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Section 3 – Astronautics and Astrophysics

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| No. | Author(s) | Title of paper | Section number | Company |
|-----|---|---|----------------|--|
| 1 | Anna-Maria Theodora ANDREESCU ¹ , Maximilian-Vlad TEODORESCU ² , Jeni Alina POPESCU ¹ , Valeriu-Alexandru VILAG ¹ , Adrian STOICESCU ¹ | Concept Study of Radio Frequency (RF) Plasma Thruster for Space Propulsion | 3 | ¹ Romanian Research and Development Institute for Gas Turbines COMOTI, http://www.comoti.ro ² National Institute for Laser, Plasma and Radiation Physics INFLPR, http://www.inflpr.ro |
| 2 | Corneliu BERBENTE | A Possible Universe in Pulsation by Using a Hydro-Dynamical Model for Gravity | 3 | "POLITEHNICA" University of Bucharest, Faculty of Aerospace Engineering, Department "Elie Carafoli" Aerospace Science, Polizu Street 1-7, postal code 011061, sector 1, Bucharest |
| 3 | Roxana Alexandra PETRE*, Thien Van NGUYEN, Ion STROE | Using Binet type of equation for relative motion | 3 | "POLITEHNICA" University of Bucharest, Department of Mechanics, 313 Splaiul Independentei, Bucharest, Romania |
| 4 | Ion STROE ¹ , Dan N. DUMITRIU ² | General Oscillatory Motion of a Large Spacecraft around its Equilibrium Attitude Posture, due to the Gravitational Moments Effect | 3 | ¹ "POLITEHNICA" University of Bucharest, 313 Splaiul Independenței, Bucharest 060042, Romania ² Institute of Solid Mechanics of the Romanian Academy, Str. Constantin Mille 15, Bucharest 010141, Romania |

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Section 4 – Materials and Structures

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| No. | Author(s) | Title of paper | Section number | Company |
|-----|--|---|----------------|---|
| 1 | Viorel ANGHEL, Stefan SOROHAN, Ioan STOICA | On The Buckling Analysis of a Cold Formed Steel Profile Arch Structure | 4 | "POLITEHNICA" University of Bucharest, Strength of Materials Department, Splaiul Independentei no. 313, Sector 6, Code 060042, Bucharest, Romania |
| 2 | Theodor ASAVEI ¹ , Marilena TOMUT ² , Mariana BOBEICA ¹ , Sohichiroh AOGAKI ¹ , Mihail CERNAIANU ¹ , Daniel URSESCU ¹ , Dan STUTMAN ¹ | Materials in Extreme Environments at ELI-NP | 4 | ¹ ELI-NP, "Horia Hulubei" National Institute for Physics and Nuclear Engineering, 30 Reactorului Street, RO-077125, Bucharest-Magurele, Romania ² GSI Helmholtzzentrum für Schwerionenforschung GmbH, 64291 Darmstadt, Germany |
| 3 | Grigore CICAN, Alexandru-Daniel MITRACHE | Rocket Solid Propellant Alternative Based on Ammonium Dinitramide | 4 | "POLITEHNICA" University of Bucharest, Faculty of Aerospace Engineering, Gh. Polizu Street 1-5, 011061, Bucharest, Romania |
| 4 | Alina DRAGOMIRESCU ^{*1} , Adriana STEFAN ¹ , Victor MANOLIU ² , Alexandru MIHAILESCU ¹ , Gheorghe IONESCU ² , Mihail BOTAN ¹ | The oxidation behavior of classical thermal barrier coatings exposed to extreme temperature | 4 | ¹ INCAS – National Institute for Aerospace Research "Elie Carafoli", B-dul Iuliu Maniu 220, Sector 6, Bucharest 061126, Romania ² AEROSPACE Consulting, B-dul Iuliu Maniu 220, Sector 6, Bucharest 061126, Romania |
| 5 | Victor MANOLIU ¹ , Gheorghe IONESCU ¹ , Mihai BOTAN ² , | Advanced Ceramic Coatings in Aeronautics | 4 | ¹ AEROSPACE Consulting, B-dul Iuliu Maniu 220, Sector 6, Bucharest 061126, Romania, ² INCAS – National Institute for Aerospace Research "Elie Carafoli", Materials Unit, B-dul |

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| | Adriana STEFAN ² , Alina DRAGOMIRESCU* ² | | | Iuliu Maniu 220, Sector 6, Bucharest 061126, Romania |
| 6 | Camelia Elena MUNTEANU, Alexandru-Mihai CISMILIANU | VTVL concept optimisation of the landing gear | 4 | INCAS – National Institute for Aerospace Research “Elie Carafoli”, B-dul Iuliu Maniu 220, Sector 6, Bucharest 061126, Romania |
| 7 | Claudia NICULESCU, Adrian SALISTEAN, Georgeta POPESCU | Harness/Container Equipment for Parachutes with Variable Volume | 4 | National R&D Institute for Textile and Leather Bucharest (INCDTP), 16 Lucretiu Patrascanu, 030508 Bucharest, Romania |
| 8 | George PELIN ^{1,2} , Camelia MUNTEANU ¹ , Cristina-Elisabeta PELIN ¹ , Adriana STEFAN ¹ | Mechanical Tests and Model Finite Element Analysis for Ablative Phenolic Composites Nanofilled with Silicon Carbide | 4 | ¹ INCAS – National Institute for Aerospace Research “Elie Carafoli”, Materials Unit, B-dul Iuliu Maniu 220, Sector 6, Bucharest 061126, Romania ² “POLITEHNICA” University of Bucharest, Faculty of Applied Chemistry and Materials Science, 1-7 Gh. Polizu St, 011061, Bucharest, Romania |
| 9 | Radu-Robert PITICESCU ¹ , Victor MANOLIU ² , Alexandru MIHAILESCU ³ , Arcadii SOBETKII ¹ , Gheorghe IONESCU ² , Adrian Mihail MOTOC ¹ | Zirconia Compounds Coatings on C Substrates: Combinatorial EB-PVD Deposition and Thermal Characterisation | 4 | ¹ National R&D Institute for Nonferrous and Rare Metals, 102 Biruintei Blvd, Pantelimon 077145, Romania ² AEROSPACE Consulting, B-dul Iuliu Maniu 220, Sector 6, Bucharest 061126, Romania ³ INCAS – National Institute for Aerospace Research “Elie Carafoli”, Materials Unit, B-dul Iuliu Maniu 220, Sector 6, Bucharest 061126, Romania |
| 10 | Cristian POSTOLACHE, Viorel FUGARU | Multipurpose Interaction Chamber for Evaluation of the Outer Space Effects in Condensed Matter | 4 | Horia Hulubei National Institute for Physics and Nuclear Engineering, 30, Reactorului St., Magurele, Ilfov, Romania |
| 11 | Adriana Georgeta SANDU*, Marin SANDU, Stefan SOROHAN, Dan Mihai CONSTANTINESCU | Dimensioning of a Sandwich Panel with Orthotropic Core Consisting of Lightweight Profiles | 4 | “POLITEHNICA” University of Bucharest, Department of Strength of Materials, Splaiul Independenței 313, 060042, Bucharest, Romania |
| 12 | Stefan SOROHAN*, Dan Mihai CONSTANTINESCU, Marin SANDU, Adriana Georgeta SANDU | Use of Modal Fea for Accurate Estimation of out of Plane Shear Moduli of Honeycomb Cores in Sandwich Panels | 4 | “POLITEHNICA” University of Bucharest, Department of Strength of Materials, Splaiul Independenței 313, 060042, Bucharest, Romania |

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Section 5 – Systems, Subsystems and Control in Aeronautics

(in alphabetical order of the first author)

| No. | Author(s) | Title of paper | Section number | Company |
|-----|---|---|----------------|--|
| 1 | Adrian MIHAI, Alexandru IONEL, Tiberiu SALAORU, Stefan PALAS, Radu BOGATEANU, Manuela CALCEA, Viorica ILINOIU | Software Generated Fuel Consumption Profile for a Light Attack and Jet Trainer Mission | 5 | INCAS – National Institute for Aerospace Research “Elie Carafoli”, B-dul Iuliu Maniu 220, Sector 6, Bucharest 061126, Romania |
| 2 | Irina-Carmen ANDREI, Alexandru IONEL, Stefan PALAS | Modelling of Selected Performance Criteria in Developing a VTVL Liquid Propulsion System | 5 | INCAS – National Institute for Aerospace Research “Elie Carafoli”, B-dul Iuliu Maniu 220, Sector 6, Bucharest 061126, Romania |
| 3 | Irina-Carmen ANDREI, Alexandru IONEL, Adrian MIHAI, Stefan PALAS, Tiberiu SALAORU | Numerical Modelling Application for Simulating Engine Test Cell Validation Methodology of a Turbofan Exhaust System | 5 | INCAS – National Institute for Aerospace Research “Elie Carafoli”, B-dul Iuliu Maniu 220, Sector 6, Bucharest 061126, Romania |
| 4 | Grigore CICAN ¹ , Ionut-Florian POPA ² | Optimizing Ion Propulsion Systems Depending on the Nature of the Propellant | 5 | ¹ “POLITEHNICA” University of Bucharest, Faculty of Aerospace Engineering, Gh. Polizu Street 1-5, 011061, Bucharest, Romania ² National Research and Development Institute for Gas Turbines COMOTI, 220 D Iuliu Maniu, Bd., sector 6, cod 061126, OP76, CP174, Bucharest, Romania |

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| 5 | Elfatih G. HAMDI*, Gamal M. Sayed EL-BAYOUMI, Ayman H. M. KASEM | On \mathcal{H}_∞ Control and its UAV Applications | 5 | Aeronautical Engineering Department, Engineering College, Cairo University, Giza State, Egypt |
| 6 | Laurentiu MORARU | A Brief Discussion Regarding Types of Cavitation in Squeeze Film Dampers and Cavitation's Effects | 5 | "POLITEHNICA" University of Bucharest, Faculty of Aerospace Engineering, Gh. Polizu Street 1-5, 011061, Bucharest, Romania |
| 7 | Laura Alina STIKA, Jeni Alina POPESCU, Sorin Gabriel TOMESCU, Valeriu-Alexandru VILAG | Performance Estimation on Micro Gas Turbine Plant Recuperator | 5 | Romanian Research and Development Institute for Gas Turbines COMOTI, web page: http://www.comoti.ro |
| 8 | Cristian VIDAN*, Silviu Ionut BADEA | Longitudinal automatic control system for a light weight aircraft | 5 | Military Technical Academy, Faculty of Mechatronics and Integrated Armament Systems, M2 Department of Aircraft Integrated Systems and Mechanics, 39-49 George Coşbuc Avenue, Sector 5, Bucharest 050141, Romania |

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Section 6 – Experimental Investigations in Aerospace Sciences

(in alphabetical order of the first author)

| No. | Author(s) | Title of paper | Section number | Company |
|-----|---|---|----------------|--|
| 1 | Mariana BOBEICA ¹ , Sohichiroh AOGAKI ¹ , Theodor ASAVEI ¹ , Mihail CERNAIANU ¹ , Petru GHENUCE ¹ , Florin NEGOITA ¹ , Dan STUTMAN ^{1,2} | Radiobiology Experiment Design and Modeling for Space Applications at ELI-NP | 6 | ¹ "Horia Hulubei" National Institute for Physics and Nuclear Engineering, Extreme Light Infrastructure Nuclear Physics ELI-NP, 30 Reactorului Street, RO-077125, Bucharest-Magurele, Romania ² Johns Hopkins University, 3400 N Charles St., Baltimore, Maryland 21218, USA |
| 2 | Alexandru IONEL, Tiberiu SALAORU, Mihaela NASTASE | Introduction to Zero Point Energy Sample Calculations With Case Studies for Prolific Applications | 6 | INCAS – National Institute for Aerospace Research "Elie Carafoli", B-dul Iuliu Maniu 220, Sector 6, Bucharest 061126, Romania |
| 3 | Gina MANDA ¹ , Ionela Victoria NEAGOE ¹ , Cristian POSTOLACHE ² , Mariana BOBEICA ³ | Redox Biology in Space Missions - Towards New Molecular Targets for Radioprotection | 6 | ¹ "Victor Babes" National institute of Pathology, Bucharest, Romania ² "Horia Hulubei" National Institute for R&D in Physics and Nuclear Engineering, Magurele, Romania ³ ELI-NP, "Horia Hulubei" National Institute for Physics and Nuclear Engineering, Magurele, Romania |
| 4 | Cristian POSTOLACHE, Viorel FUGARU, Sorin BERCEA, Aurelia CELAREL, Constantin CENUSA | Characterization of Gamma Radiation Fields Emitted by 60-CO Sources Inside of Multifunctional Interaction Chamber | 6 | Horia Hulubei National Institute for Physics and Nuclear Engineering, 30, Reactorului St., Magurele, Ilfov, Romania |

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Section 7 – ATS and full Automation ATM

(in alphabetical order of the first author)

| No. | Author(s) | Title of paper | Section number | Company |
|-----|---|--|----------------|--|
| 1 | Gabriela STROE ¹ , Irina-Carmen ANDREI ² | Automation and Systems Issues in Air Traffic Control | 7 | ¹ "POLITEHNICA" University of Bucharest, Faculty of Aerospace Engineering, Polizu Street 1-7, postal code 011061, sector 1, Bucharest ² INCAS – National Institute for Aerospace Research "Elie Carafoli", B-dul Iuliu Maniu 220, Sector 6, Bucharest 061126, Romania |
| 2 | Gabriela STROE ¹ , Irina-Carmen ANDREI ² | Automated Conflict Resolution in Air Traffic Management | 7 | ¹ "POLITEHNICA" University of Bucharest, Faculty of Aerospace Engineering, Polizu Street 1-7, postal code 011061, sector 1, Bucharest ² INCAS – National Institute for Aerospace Research "Elie Carafoli", B-dul Iuliu Maniu 220, Sector 6, Bucharest 061126, Romania |

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Section 8 – Management in Aerospace Activities

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| No. | Author(s) | Title of paper | Section number | Company |
|-----|--|---|----------------|---|
| 1 | Aurelian Virgil BALUTA | The Mix of Laws Involved in The Activity of the Companies in the Aerospace Field | 8 | "Spiru Haret" University, 13 Ion Ghica Str., District 3, Bucharest, 030045 |
| 2 | Aurelian Virgil BALUTA ¹ , Gabriela IOSIF ² | Communications Principles for Team/ Group Performance in Aerospace Field of Activities | 8 | ¹ "Spiru Haret" University, 13 Ion Ghica Str., District 3, Bucharest, 030045 ² National Institute for R & D in Electrical Engineering ICPE-CA, Splaiul Unirii, Nr. 313, Sector 3, 030138, Bucuresti, Romania |
| 3 | Casandra Venera BALAN (PIETREANU)*, Valentin-Marian IORDACHE | Limitations of systemic accident analysis methods | 8 | "POLITEHNICA" University of Bucharest, Aerospace Engineering Department, Polizu Street 1-7, sector 1, Bucharest 011061, Romania |
| 4 | Claudia DOBRE ^{1,2} | Identification of Gaps and Bottlenecks to Innovation in the European Aeronautics Research Landscape | 8 | ¹ INCAS – National Institute for Aerospace Research "Elie Carafoli", B-dul Iuliu Maniu 220, Bucharest 061126, Romania ² Bucharest University of Economic Studies, ASE, Piata Romana 6, Bucharest 010374, Romania |
| 5 | Vlad MARAZAN | Weather related general aviation accidents in Europe from a pilot's point of view | 8 | Aircraft Owners and Pilots Association of Romania |
| 6 | Taofik OLAYIWOLA*, Adim Kingsley OBUH | The Safety Management System of the Nigerian Aerospace. Corporate Safety Commitment | 8 | Concord Hangar Limited, Concord Terminal Building, Murtala Muhammed Airport, Lagos, Nigeria |