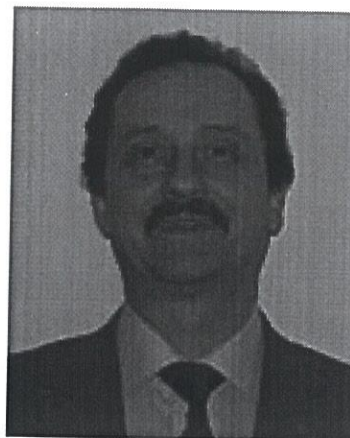




**Europass  
Curriculum Vitae**



**Personal information**

First name / Surname **Ion FUIOREA**

Address(es)

Telephone(s)

Fax(es)

E-mail

Mobile:

Nationality **Romanian**

Date of birth

Gender **Male**

**Work experience**

Dates **November 2011 - present**

Occupation or position held **Technical Manager**

Main activities and responsibilities **Design & research management**

Name and address of employer **SMART MECHANICS SRL, Stelea Spătaru, Nr. 10, Bucharest sector 3**

Type of business or sector **Engineering Research and Development**

Dates **February 2015 - 2018**

Occupation or position held **Head of Defence Department**

Main activities and responsibilities **Research management, Research**

Name and address of employer	National Research Institute COMOTI – B-dul Iuliu Maniu 220, Bucharest sector 6
Type of business or sector	Research and Development
Dates	November 2014 – February 2015
Occupation or position held	Technical & Manufacturing Manager
Main activities and responsibilities	Product design and manufacturing management
Name and address of employer	SC AEROTEH SA – Bdul Iuliu Maniu 220A Bucharest sector 6
Type of business or sector	Helicopter hydraulic system manufacturing
Dates	October 2007 – November 2014
Occupation or position held	General Manger
Main activities and responsibilities	Management, Research
Name and address of employer	S.C. STRAERO S.A. (Institute for Theoretical and Experimental Analysis of Aeronautical Structures)
Type of business or sector	Research and Development
Dates	August 2007 – October 2007
Occupation or position held	Scientifically Manger
Main activities and responsibilities	Research management, Research
Name and address of employer	S.C. STRAERO S.A. (Institute for Theoretical and Experimental Analysis of Aeronautical Structures)
Type of business or sector	Research and Development
Dates	October 2004 – present
Occupation or position held	Associated Professor
Main activities and responsibilities	Teaching the disciplines of: Aircraft Structures Calculus & Construction; Aero-elasticity; Finite Elements Method, System Engineering, Mechanical Engineering, Composite Materials
Name and address of employer	Polytechnic University of Bucharest
Type of business or sector	Education
Dates	2004 – 2007
Occupation or position held	Director in the State Central Office for Special Issues
Main activities and responsibilities	Planning the organization of National Economy for Defence
Name and address of employer	Romanian Govern
Type of business or sector	Administration
Dates	1996 – 2004
Occupation or position held	Professor

Main activities and responsibilities	Didactical activities with the students from the faculty as well as from the post-graduate courses, MBA studies (courses, seminars, laboratory activities,) for: Aircraft Structures Calculus & Construction, FEM, Research Aero-elastic Structures, Aircraft Composite Structures. Since 1999 PhD adviser, Aerspatial Engineering field. Starting 1996, Head of Aircraft Department, Dean of the Academy's Faculty of Aviation and Armours, Pro-rector for Teaching and Scientific Research and finally Rector.
Name and address of employer	Military Technical Academy
Type of business or sector	Education
Dates	1990 – 1996
Occupation or position held	Associate Professor
Main activities and responsibilities	Didactical activities with the students from the faculty as well as from the post-graduate courses, MBA studies (courses, seminars, laboratory activities,) for: FEM, Aircraft Composite Structures. Participating as chief of collective or as a member in some scientifically research collectives in many research contracts in the interest of the National Ministry of Defence
Name and address of employer	Military Technical Academy
Type of business or sector	Education
Dates	1981 – 1990
Occupation or position held	Lecturer
Main activities and responsibilities	Didactical activities with the students (courses, laboratory seminars, coordinating course projects and graduation papers, productive practical activities) for: The Mechanics of the Rigid and Distorting Solid, Mechanical Vibrations, Technology, Aircraft Composite Structures. Participating as chief of collective or as a member of the research collective, to different research contracts in the interest of the National Ministry of Defence or for economical agents from the defence industry.
Name and address of employer	Military Technical Academy
Type of business or sector	
Dates	1980 – 1981
Occupation or position held	Chief Engineer
Main activities and responsibilities	Participating directly in the Helicopters Repair Base setting up, being responsible for acquiring and preparing the technological stock of the base, for the fabrication preparation of the Puma helicopter repairs line.
Name and address of employer	Helicopters Repair Base – Otopeni
Type of business or sector	MoD
Dates	1977 – 1980
Occupation or position held	Technical Deputy for the Commander of the Special Squadron
Main activities and responsibilities	Aircraft maintenance
Name and address of employer	Otopeni Transport Wing

Type of business or sector	MoD
<b>Education and training</b>	
Dates	1996
Name and type of organisation providing education and training	NATO College of Defence, Rome
Dates	1990 – 1994
Title of qualification awarded	PhD. In Aerospatale Engineering
Name and type of organisation providing education and training	Military Technical Academy
Level in national or international classification	PhD.
Dates	1979 – 1984
Title of qualification awarded	Licence in Mathematics
Name and type of organisation providing education and training	The Faculty of Mathematics, University of Bucharest
Level in international classification	BA
Dates	1972 – 1977
Title of qualification awarded	Engineer
Name and type of organisation providing education and training	Military Academy – Military Airframe & Engines
Level in international classification	BA

**Personal skills and competences**

Mother tongue(s) **Romanian**

Other language(s)

Self-assessment

*European level (\*)*

French

English

Italian

**Understanding**

Listening    Reading

B2

B2

C2

C2

A2

A2

**Speaking**

Spoken interaction    Spoken production

B2

B2

C2

C2

A2

A2

**Writing**

B2

C2

A2

Technical skills and competences	<ul style="list-style-type: none"> <li>▪ 1<sup>st</sup> Grade Scientific Researcher, attested by the Ministry of Education and Research</li> <li>▪ Expert CNCSIS Evaluator, in the fields of New Materials and Aviation</li> <li>Expert CORDIS Evaluator for R&amp;D projects in the fields of New Materials and Aviation FP5, FP6, FP7</li> </ul>
Computer skills and competences	CAD, FEM, CFD, MatLab
<b>Additional information</b>	<p>Project Manager for the recent research projects:</p> <ul style="list-style-type: none"> <li>▪ Project IDEI 137/2008 081: Mathematical models for complex ultimate states in composite materials 2008</li> <li>▪ Project PN II 82-081: Aero-elastic vibration damping by using advanced activ control techniques 2008</li> <li>▪ Project CEEX 65: Integrated system for multidisciplinary analysis and optimal projecting 2006</li> <li>▪ FP 7: CLEAN SKY Joint technology initiative – Smart Fixed Wing</li> <li>▪ FP5: TAURUS – Aero-elasticity simulation environment 2002-2005</li> <li>▪ CLEAN SKY2 : Joint Technology Initiative – Eco Design - Electrical Test Bench Drive Systems: Mechanical Interfaces 2015 – 2017</li> <li>▪ ESA: Sealing Systems for a Phobos Sample Return Mission, MREP2 2017 – 2019</li> <li>▪ ESA, MREP2: Breadboard of a Sealing Systems for a Phobos Sample Return Mission 2018 - present</li> </ul>

## Annexes Papers and articles (selection)

- Fuiorea, A homogenous anisotropic model for a complex regular structure, International Conference COMPOSITES IN CONSTRUCTION, Porto, 10-12 Oct. 2001;
- Fuiorea, An Method for Tsai-Wu Failure Criterion validation, The 20<sup>th</sup> SAMPE Europe Jubilee International Conference, Paris, 1999;
- I FUIOREA – O metoda de rezolvare in deplasari a problemei placilor plane compozite – INCAS Bulletin Vol. 3, Issue 2, 2011-10-31
- I FUIOREA – W TIU - Decoupling Effects - A Novel Method for Composites Characterization - Proceedings of the Romanian Academy, Series A, of the Romanian Academy, Volume 12, Number 1/2011
- I FUIOREA, L FLORE, R MARIN, D GABOR - A Fem Composite Blade Model Calibration – Efficiency and Innovation through ANSYS & FLOWMASTER Numeric Simulation Sinaia, 6-7 October 2011
- D GABOR, I FUIOREA - Engineering Constants Anticipation for Composite Materials - Efficiency and Innovation through ANSYS & FLOWMASTER Numeric Simulation Sinaia, 6-7 October 2011
- Prof. Ion Fuiorea, Cs I Mihail Stoicescu, Ing. Dumitrita Gabor, Ing. Ionel Popescu - The Influence of The Specimen Clamping Framework Upon the Stress State - The 17th International Scientific Conference Knowledge-Based Organisation 2011
- Ion FUIOREA, Lică FLORE, Dumitrita GABOR - A POINT OF VIEW UPON RAYLEIGH DAMPING HYPOTHESIS, AEROSPATIAL 2012, Bucharest;
- Ion FUIOREA, Mihai MIHĂILĂ-ANDRES, Dumitrita GABOR - AN AEROELASTIC PROBLEM SOLVED WITH THE ANSYS MFX CODE, Eficiență și Inovație prin Simulare Numerică, ANSYS & FLOWMASTER, Sinaia, 2012
- ION FUIOREA, IULIANA SPRINȚU, ANALYTICAL SOLUTIONS OF THE MECHANICAL ANSWER OF THIN ORTHOTROPIC PLATES, PROCEEDINGS OF THE ROMANIAN ACADEMY, Series A, Volume 14, Number 4/200x, pp. 343–350, 2018
- Constantinescu Adrian, Bertram Voker, Ion Fuiorea, *Wedge Shapped Shell Structure Impacting Water Surface*, Conference of the ASME Vessels and Piping, Vol 4, Series: Pressure Vessel and Piping Division of the American Society of Mechanical Engineers, pag 55 – 62, 2018
- Albert ARNAU CUBILLO, Ion FUIOREA, *Numerical Estimation of Mechanical Characteristics of an Unidirectional Composite Ply and Study of the Solution Convergence* - VII International Conference on Textile Composites and Inatable Structures STRUCTURAL MEMBRANES 2015 E. Oñate, K.-U.Bletzinger and B. Kroplin (Eds)2017
- Pislaru-Danescu L., Morega A., Popa M., Morega M., Chihai R., Bunea F., Fuiorea I., Lica F., Dumitrita G., Popescu I, *New Type of Piezoelectric Circular Motor Conceived for Outer Space Applications*, IEE IEEE Transaction on Dielectrics and Electrical Insulation, 2018
- Pislaru-Danescu L., Morega A., Popa M., Morega M., Chihai R., Bunea F., Fuiorea I., Lica F., Dumitrita G., Popescu I, *New Type of Magnetostrictive Linear Motor Conceived for Outer Space Applications*, IEE Transaction on Magnetics.2017

### **Monographies & tutorials**

- I Fuiorea, D Ionescu, S Stefan – Mechanics . Dynamics, Military Technical Academy, 1988 (244 pag)
- I Fuiorea, D Ionescu, S Stefan - Mechanics . Statics – Tutorial, Military Technical Academy, 1990 (268 pag)
- I Fuiorea, D Ionescu, S Stefan - Mechanics . Cinematics – Tutorial, Military Technical Academy, 1992 (292 pag)
- I Fuiorea, D Ionescu, S Stefan - Mechanics . Dynamics Vol I – Tutorial, Military Technical Academy, 1993 (299 pag)
- I Fuiorea, D Ionescu, S Stefan - Mechanics . Dynamics Vol II – Tutorial, Military Technical Academy, 1994 (347 pag)
- I Fuiorea, D Ionescu, S Stefan – Analytical Mechanics – Tutorial, Military Technical Academy, 1995 (363 pag)
- I Fuiorea – Composite materials. Mechanical Answer Design – Pan Publishing House 1995 (210 pag)
- D Ionescu, P Lixandru, I Fuiorea sa – Mechanics – Complements - Military Technical Academy, 1997 (266 pag)
- I Fuiorea – Finite Element Method for Aeroelastic Structures - Military Technical Academy, 1998 (266 pag)
- I Manole, V Stanciu, I Fuiorea - Romanian Engineering Aeronautic Education History – media uno, 2001 (432 pag)

03.03.2021