

Europass Curriculum Vitae



Personal information

First name(s) / Surname(s) **Teodor Lucian Grigorie**
Address(es) A.I. Cuza Street, Isalnita, Dolj, Romania
E-mail lucian.grigorie@mta.ro, ltgrigorie@yahoo.com
Nationality Romanian
Date of birth 22.01.1975
Gender male

Work experience

Dates	<i>01.10.2018 up to now</i>
Occupation or position held	First Degree Scientific Researcher
Main activities and responsibilities	Research and teaching activities
Name and address of employer	Military Technical Academy "Ferdinand I", Faculty of Aircraft and Military Vehicles, Center of Excellence in Self-Propelled Systems and Technologies for Defense and Security, Bucharest, RO
Type of business or sector	Education and research
Dates	<i>01.10.2017 up to now</i>
Occupation or position held	<i>PhD Supervisor</i>
Main activities and responsibilities	Coordination of PhD Students, Research and teaching activities
Name and address of employer	University Politehnica Bucharest, Faculty of Aerospace Engineering, Bucharest, Romania
Type of business or sector	Education and research
Dates	<i>01.01.2014 up to now</i>
Occupation or position held	Associate Professor
Main activities and responsibilities	Research and teaching activities
Name and address of employer	Ecole de Technologie Superieure in Montreal, Quebec, Canada
Type of business or sector	Education and research
Dates	<i>01.10.2009 – 0.1.10.2018</i>
Occupation or position held	Associate Professor
Main activities and responsibilities	Teaching and research activities
Name and address of employer	University of Craiova, Faculty of Electrical Engineering, Craiova, Romania
Type of business or sector	Education and research
Dates	<i>01.10.2005 – 01.10.2009</i>
Occupation or position held	Senior Lecturer
Main activities and responsibilities	Teaching and research activities
Name and address of employer	University of Craiova, Faculty of Electrical Engineering, Craiova, Romania
Type of business or sector	Education and research
Dates	<i>01.10.2001 – 01.10.2005</i>
Occupation or position held	Assistant Professor
Main activities and responsibilities	Teaching and research activities
Name and address of employer	University of Craiova, Faculty of Electrical Engineering, Craiova, Romania
Type of business or sector	Education and research

Dates	01.10.1998 – 01.10.2001
Occupation or position held	University preparatory
Main activities and responsibilities	Teaching and research activities
Name and address of employer	University of Craiova, Faculty of Electrical Engineering, Craiova, Romania
Type of business or sector	Education and research
Education and training	
Dates	2017
Title of qualification awarded	Habilitation in Aerospace Engineering, Habilitation certificate issued by Romanian Ministry of National Education
Principal subjects/occupational skills covered	Habilitation thesis title: Sensing, actuation and control in the next generation of aerospace systems. PhD Supervisor in Aerospace Engineering field
Name and type of organisation providing education and training	University Politehnica Bucharest, Faculty of Aerospace Engineering, Bucharest, Romania
Level in national or international classification	National level - University of advanced research and education; C category at international level
Dates	October 2001-October 2006
Title of qualification awarded	PhD in Aerospace Engineering
Principal subjects/occupational skills covered	Thesis title: Strap-down inertial navigation systems with optoelectronic sensors
Name and type of organisation providing education and training	University Politehnica Bucharest, Faculty of Aerospace Engineering, Bucharest, Romania
Level in national or international classification	National level - University of advanced research and education; C category at international level
Dates	1998-1999
Title of qualification awarded	Master in Aerospace Engineering
Principal subjects/occupational skills covered	Specialization: Complex systems for stabilization, navigation and aerospace guidance
Name and type of organisation providing education and training	University of Craiova, Faculty of Electrical Engineering, Craiova, Dolj, Romania
Level in national or international classification	National level - University of education and scientific research; B category at international level
Dates	1993-1998
Title of qualification awarded	Aerospace Engineer
Principal subjects/occupational skills covered	Specialization: Onboard equipment and installations
Name and type of organisation providing education and training	University of Craiova, Faculty of Electrical Engineering, Craiova, Dolj, Romania
Level in national or international classification	National level - University of education and scientific research; B category at international level
Dates	1989-1993
Title of qualification awarded	High school diploma
Principal subjects/occupational skills covered	High school graduate, Mathematics and physics profile
Name and type of organisation providing education and training	National College "Nicolae Balcescu", Craiova, Dolj, Romania
Level in national or international classification	National College
Training Courses at international level	
	<ul style="list-style-type: none"> „GNSS Positioning: Theory and Practice”, 07.06.2016-09.06.2016, Prague, Czech Republic, in the professional training program of e-KnoT project, European Global Navigation Satellite Systems Agency (GSA); „Vulnerabilities of GNSS”, 18.10.2016-20.10.2016, Torino, Italy, in the professional training program of e-KnoT project, European Global Navigation Satellite Systems Agency (GSA);

- „Fundamentals of GNSS“, 10.04.2017-12.04.2017, Astri Polska, Warsaw, Poland, in the professional training program of e-KnoT project, European Global Navigation Satellite Systems Agency (GSA);
- „Multi-Sensors Navigation“, 22.05.2017-24.05.2017, Prague, Czech Republic, in the professional training program of e-KnoT project, European Global Navigation Satellite Systems Agency (GSA);

Personal skills and competences

Mother tongue(s) Romanian

Other language(s)

Self-assessment

European level

English

French

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
C2	Proficient user	C2	Proficient user	C2	Proficient user	C2	Proficient user	C1	Proficient user
B2	Independent user	B2	Independent user	B2	Independent user	B2	Independent user	B2	Independent user

Social skills and competences

Technical skills and competences

Ability to work in various types of scientific research teams

- Fundamental research, applied research, computer aided design and optimization, and service for aircraft board equipment: pressure, flow, temperature and speed sensors and transducers; apparatus for determining altitude, speed, Mach number, and direction of flight; attitude and heading reference systems; electrical and electronic measuring instruments specific for aircraft board equipment.
- Fundamental research, applied research, computer aided design and optimization, and service for automated control of linear and nonlinear systems in the classical variant (PID control laws), or using fuzzy logic and neural networks: classical aircraft equipment and systems, non-conventional equipment and systems like MEMS, MOEMS, NEMS, NOEMS sensors, or smart material actuators with direct application in morphing aircraft.
- Fundamental research, applied research, computer aided design and optimization, and service for equipment and aerospace navigation systems: strap-down inertial navigators, GPS, integrated GPS-INS, positioning systems using acoustic methods.
- Numerical and symbolic-numeric analysis for aircraft board equipment and systems, linear or nonlinear, operating in different regimes;
- Instrumentation, acquisition, storage and numerical processing of signals; signals analysis.
- Development of dedicated software, for computing and optimization, for various applications in aerospace engineering: aerospace and navigation systems onboard, automatic control of linear and nonlinear systems, monitoring and archiving of functional parameters in complex equipment.

Computer skills and competences

MATLAB, PASCAL, MULTISIM, MAPLE, MATHEMATICA, AUTOCAD, COREL, VISIO

Address of the researcherid.com profile

<http://www.researcherid.com/rid/B-7416-2011>

Membership in CNATDCU commissions

Member in *Commission of Aerospace Engineering, Automotive and Transportation - Appeals Commission* of National Council for Titles, Diplomas and Certificates (CNATDCU) (starting from 2017)

Membership Association

AIAA (*American Institute of Aeronautics and Astronautics*), IEEE (*Institute of Electrical and Electronics Engineers*), CASI (*Canadian Aeronautics and Space Institute*), IAENG (*International Association of Engineers*), DAAAM (*Danube Adria Association for Automation & Manufacturing*), INSTICC (*Institute for Systems and Technologies of Information, Control and Communication*).

Postdoctoral stages

Département en génie de la production automatisée, Laboratoire de Recherche en Commande Active, Avionique et Aéroserveoélasticité (LARCASE), Université du Québec, École de technologie supérieure (ETS) en Montréal, Canada

Obtained prizes

II Prize in National Physics Olympiad and qualification tests dam for International Physics Olympiad – two years consecutively. The award was given by the Ministry of Education in Romania (1991/1992, 1992/1993)

Troisième prix pour le projet CRIAQ 7.1 a l'occasion de la 10ième anniversaire de CRIAQ, le 16 mars 2012 - offert a l'équipe travaillant sur le projet CRIAQ 7.1: L'Amélioration de l'écoulement laminaire sur une voilure aéroélastique, dirigé entre 2006 et 2009 par professeure Ruxandra Botez, Département de génie de la production automatisée, École de technologie Supérieure, Montréal, Québec, Canada

Deuxième prix pour le projet CRIAQ MDO-505 a l'occasion du Forum CRIAQ, le 17 avril 2014 - offert a l'équipe travaillant sur le projet CRIAQ MDO-505: Architectures et technologies déformables pour l'amélioration des performances des ailes (2012-2015) dirigé par professeure Ruxandra Botez, Département de génie de la production automatisée, École de technologie Supérieure, Montréal, Québec, Canada

Premio Venezia du Chambre de commerce italienne au Canada - Édition 2015, catégorie Scientifique et Académique, pour le projet CRIAQ MDO-505, le 28 mai 2015 - offert a l'équipe travaillant sur le projet CRIAQ

MDO-505: Architectures et technologies déformables pour l'amélioration des performances des ailes (2012-2015) dirigé par professeure Ruxandra Botez, Département de génie de la production automatisée, École de technologie Supérieure, Montréal, Québec, Canada

2017 AMERICAN ROMANIAN ACADEMY OF ARTS AND SCIENCES „Morphing Wing Modeling and Simulation” Award for CRIAQ MDO 505 Team led by Dr. Botez: Teodor Lucian Grigorie, M. J. Tchatchuneg Kammegne, Andreea Koreanschi, Oliviu Sugar Gabor, Mohamed Guezguez, Yvan Tondji, Mahmood Mamou, Youssef Mébarki, ÉTS, Canada, for the presentation „Experiments on a Real Aircraft Morphing Wing”

„Certificate of Outstanding Contribution in Reviewing” awarded in January, 2017 to Lucian Grigorie in recognition of the contributions made to the quality of the journal AEROSPACE SCIENCE AND TECHNOLOGY. The Editors of AEROSPACE SCIENCE AND TECHNOLOGY, Elsevier, Amsterdam, Netherlands

„Certificate of Reviewing” awarded in May, 2016 to Lucian Grigorie in recognition of the review made for the journal CHINESE JOURNAL OF AERONAUTICS. The Editors of CHINESE JOURNAL OF AERONAUTICS, Elsevier, Amsterdam, Netherlands

Third Prize for Excellence in Research awarded by ANCS (National Authority for Scientific Research) for 2006, section with the technological project, together with the team of the project 7C23/2004

I Prize in Physics Olympiad County, Dolj, Romania. Member of Olympic Physical lot of Dolj county and participating in National Physics Olympiad. Prizes were provided by the Ministry of Dolj County Inspectorate of Education in Romania (1989/1990, 1990/1991, 1991/1992, 1992/1993)

UEFISCDI/PN-II Prize, Human resources Program - Competition “Awarding of research results” 2013, for the paper: Automatic Control of Aircraft in Longitudinal Plane During Landing, IEEE Transactions on Aerospace & Electronic Systems, vol. 49, nr. 2, 2013, pp. 1338-1350, authors: R. Lungu, M. Lungu, T.L. Grigorie. Project code: PN-II-RU-PRECISI-2013-7-4184.

UEFISCDI/PN-II Prize, Human resources Program - Competition “Awarding of research results” 2013, for the paper: ALSs with Conventional and Fuzzy Controllers Considering Wind Shear and Gyro Errors, Journal of Aerospace Engineering, vol. 26, nr. 4, 2013, pp. 794-813, authors: R. Lungu, M. Lungu, T.L. Grigorie. Project code: PN-II-RU-PRECISI-2013-7-3994.

UEFISCDI/PN-III Prize, Subprogram 1.1. Human resources - Competition “Awarding of research results - articles” 2017, for the paper: Proportional fuzzy feed-forward architecture control validation by wind tunnel tests of a morphing wing, Chinese Journal of Aeronautics, vol. 30, nr. 2, 2017, pp. 561-576, authors: M.J.T. Kammegne, R. Botez, T.L. Grigorie, M. Mamou, Y. Mébarki. Project code: PN-III-P1-1.1-PRECISI-2017-20037.

International scholarships

Postdoctoral excellence scholarship for stranger researchers, offered by Gouvernement du Canada, Ministère de l'Éducation, du Loisir et du Sport (2008)

Scholarships for research training, offered by Agence Universitaire de la Francophonie (AUF) for research stages at University of Quebec, Montréal, Canada (2005, 2007, 2011)

Scholarship for research at doctoral level, offered by Research Laboratory in Active Controls, Avionics and Aeroservoelasticity (LARCASE), École de technologie supérieure à Montréal (ETS), Québec, Canada (2005)

Scholarship for research at postdoctoral level, offered by Agence Universitaire de la Francophonie (AUF) for a research stage in Research Laboratory in Active Controls, Avionics and Aeroservoelasticity (LARCASE), École de technologie supérieure à Montréal (ETS), Québec, Canada (2008-2009)

Scholarships for research at postdoctoral level, offered by Research Laboratory in Active Controls, Avionics and Aeroservoelasticity (LARCASE), École de technologie supérieure à Montréal (ETS), Québec, Canada (2007-2012)

Reviewer

ISI-web Journals

1) **Chinese Journal of Aeronautics**, ISSN: 1000-9361; 2) **Mechatronics**, ISSN: 0957-4158; 3) **Transactions of the Institute of Measurement and Control**. ISSN: 0142-3312; 4) **International Journal of Electronics**. ISSN: 0020-7217; 5) **Latin American Journal of Solids and Structures**. ISSN: 1679-7825; 6) **Aerospace Science and Technology**. ISSN: 1270-9638; 7) **IEEE Sensors Journal**. ISSN: 1530-437X; 8) **Tribology International**, ISSN: 0301-679X; 9) **Journal of Sensors**. ISSN: 1687-725X; 10) **Sensors**. ISSN: 1424-8220; 11) **Journal of Aerospace Engineering**. ISSN: 0893-1321; 12) **Journal of Control Science and Engineering**. ISSN: 1687-5249, eISSN: 1687-5257; 13) **Information Fusion**. ISSN: 1566-2535, eISSN: 1872-6305; 14) **Journal of aerospace technology and management**. ISSN: 1984-9648, eISSN: 2175-9146; 15) **Journal of Electrical and Computer Engineering**. ISSN: 2090-0147, eISSN: 2090-0155; 16) **Mathematical problems in engineering**. ISSN: 1024-123X, eISSN: 1563-5147; 17) **Sensors and Actuators A-Physical**. ISSN: 0924-4247; 18) **Aerospace**. ISSN: 2226-4310; 19) **Energies**. ISSN: eISSN: 1996-1073; 20) **Water**. ISSN: eISSN: 2073-4441; 21) **Optics Communications**. ISSN: 0030-4018; 22) **International Journal of Aerospace Engineering**. ISSN: 1687-5966, eISSN: 1687-5974; 23) **Journal of Mechanical Science and Technology**. ISSN: 1738-494X, eISSN: 1976-3824.

Journals and Conference proceedings indexed in international databases

- 4 Journals and 8 Conference indexed in international databases;
- 14 International Conferences with Proceedings ISI-web indexed;

Other Journals and Conferences

- 1 Journal and 17 International Conferences with Proceedings un-indexed.

Scientific Committee member/Editor

- 27 International Conferences with Proceedings ISI-web indexed;
- 7 Journals / Journal Special Issues indexed in international databases and 21 Conferences with Proceedings indexed in international databases;
- 10 un-indexed journals and 75 International Conferences with Proceedings un-indexed.

Publications

Short description:

- Participation in national and international research projects: **37**;
- **4** books, **2** laboratory handbook and 1 edited book;
- **6** books chapters in international publishers (Springer-Verlag, Elsevier and InTech);
- over **230** scientific papers, between them **87** papers ISI-web indexed (29 in journals and 58 in proceedings), **82** papers indexed in international databases recognized by CNATDCU (18 papers in journals and 64 in proceedings), and over 60 papers published in journals or proceedings indexed in other databases or un-indexed.

Annexes

Annex 1 - Managerial Experience – selection from grants/research projects; Annex 2 - Products designed / realized and valorized at national and international levels (selection); Annex 3 – List of publications (selection – ISI-web journals papers)

Annex 1. Managerial Experience

I led or participated as expert member in the progress of **37** domestic and international research projects, as follows: **5** annual international research projects (project director), **5** multi-annual international research projects (team member), **3** multi-annual national research project (project director), **24** multi-annual national research projects (team member).

Theoretical and practical results obtained following the completion of grants have resulted in publication of scientific material (journal papers, books, papers presented at scientific communications sessions in the country and abroad) and development of teaching materials (course supports, laboratory platforms).

In the following will be listed the international projects coordinated by the director, the three multi-annual international projects, and the national projects:

• **International projects**

P1. Navigateurs inertiels à composants liés, à prix bas et hautes performances, basées sur la fusion adaptive dans des dispositions redondantes de nano et micro capteurs inertiels (2011). Project financed by Agence Universitaire de la Francophonie (AUF) and performed in collaboration with Université du Québec, Ecole de Technologie Supérieure (ETS), Montreal, Canada. (**Project Director**)

P2. La conception, la simulation numérique et l'optimisation d'un accéléromètre MEMS capacitif utilisé en applications aérospatiales (2008-2009). Project financed by Agence Universitaire de la Francophonie (AUF) and performed in collaboration with Université du Québec, Ecole de Technologie Supérieure (ETS), Montreal, Canada. (**Project Director**)

P3. La fusion en réseaux redondants des capteurs optoélectroniques miniaturisées des systèmes de navigation par inertie (2008). Project financed by Ministère de l'Éducation, du Loisir et du Sport du Canada and performed in collaboration with Université du Québec, Ecole de Technologie Supérieure, Montreal, Canada. (**Project Director**)

P4. Étude expérimentale pour l'estimation et la compensation de la dépendance avec la température du biais d'un accéléromètre en utilisant des techniques de la logique neuro-flou (2007). Project financed by AUF and performed in collaboration with Université du Québec, Ecole de Technologie Supérieure, Montreal, Canada. (**Project Director**)

P5. Etude numérique et expérimental d'un algorithme d'attitude pour un système inertiel à composants liés (2005). Project financed by AUF and performed in collaboration with Université du Québec, Ecole de Technologie Supérieure, Montreal, Canada. (**Project Director**)

P6. Canada research chair in technologies for aircraft modeling and simulation (2011-until now). Project coordinated by Université du Québec, Ecole de Technologie Supérieure, Montréal, Canada. (**Research team member**)

P7. Architectures et technologies déformables pour l'amélioration des performances des ailes (CRIAQ MDO-505; 2012-2015). Project coordinated by Université du Québec, Ecole de Technologie Supérieure, Montréal, Canada in collaboration with l'École Polytechnique de Montréal, Laboratoire d'aérodynamique du Conseil National de Recherche du Canada – Institut de recherche en aérospatiale (CNRC-IRA), Bombardier Aerospace Inc., Thales Aerospace, Université Frederico II de Naples, CIRA and Alenia (**Research team member**)

P8. Études d'optimisation des trajectoires pour des avions verts (2009-2012). Project coordinated by Université du Québec, Ecole de Technologie Supérieure, Montréal, Canada in collaboration with CMC Electronique – Esterline and is a part of the new *Network of Centers of Excellence* led by the group *Green Aviation Research and Development Network (GARDN)*, and financed by Canadian Government. (**Research team member**)

P9. Amélioration de l'écoulement laminaire sur une voilure aéroélastique (2006-2009). Project coordinated by Université du Québec, Ecole de Technologie Supérieure, Montréal, Canada in collaboration with l'École Polytechnique de Montréal, Laboratoire d'aérodynamique du Conseil National de Recherche du Canada – Institut de recherche en aérospatiale (CNRC-IRA), Bombardier Aerospace Inc., Thales Aerospace and financed by CRIAQ (Consortium de recherche et d'innovation en aérospatiale au Québec). (**Research team member**)

P10. L'étude des interactions adverses des systèmes de commande active sur la structure flexible de l'avion F/A-18. (2002-2007). Project coordinated by Université du Québec, Ecole de Technologie Supérieure, Montréal, Canada in collaboration with NASA Dryden Flight Research Center, Edwards, California, USA and financed by CRSNG (Conseil de recherches en sciences naturelles et en génie du Canada) and by MRST (Ministère de la Recherche, de la Science et de la Technologie). (**Research team member**)

• **National projects – Project director**

PN1. High-precision micro and nano smart sensors for space inertial navigation applications (2012-2015). STAR Program of Romanian Space Agency and ESA. Project No. 27/19.11.2012. Project coordinator: University of Craiova. (**Project Director**)

PN2. High-precision strap-down inertial navigators, based on the connection and adaptive integration of the nano and micro inertial sensors in low cost networks, with a high degree of redundancy (2010-2013). Project in PNCDI - national program: Research projects to stimulate the formation of young independent research teams – TE. Project No. 1/28.07.2010. Project coordinator: University of Craiova. (**Project Director**)

PN3. Sisteme integrate de navigatie INS/GPS de inalta precizie si cost redus, bazate pe algoritmi inteligenti de fuziune a datelor - (2015-2017). Project in PNCDI - national program: Research projects to stimulate the formation of young independent research teams – TE. Project No. 18/01.10.2015. Project coordinator: University of Craiova. (Project Director)

Annex 2. Products designed / realized and valorized at national and international levels (selection):

Elaboration of various methods for design and optimization, and the project execution of unique products, some currently in operation:

- a product prototype, Bucharest International Technical Fair exposed in 2006, winning the Third Prize for Excellence in Research awarded by National Authority for Scientific Research in Romania for 2006, Section - Project with technology development, with the team of the project 7C23/2004;
- algorithms for determining aircraft stability derivatives based on flight tests and on wind tunnel tests (software tools – experimentally validated for F-18) (collaboration with NASA Dryden Flight Research Center - USA and University of Quebec);
- morphing wing physical model equipped with optical and Kulite pressure sensors and real-time controlled with classical and adaptive neuro-fuzzy techniques (collaboration with University of Quebec, National Research Council of Canada, Ecole Polytechnique de Montreal - beneficiary Thales Canada and Bombardier Aeronautique Canada);
- models of smart material actuators with neuro-fuzzy techniques, error compensation algorithm for pressure sensors errors due to the temperature (software instruments), controllers for smart material actuators in a morphing wing application (collaboration with University of Quebec, National Research Council of Canada, Ecole Polytechnique de Montreal - beneficiary Thales Canada and Bombardier Aeronautique Canada);
- 3D mobile platforms computerized controlled, monitoring system for impact point of aviation bombs with acoustic sensors, system ground view of the evolution of aircraft in flight based on radio communication, systems for aircraft flight attitude determination, strap-down miniaturized inertial navigators (collaborations with In Flight Research and Test Center Craiova, Romania);
- estimation and compensation algorithm's for gyro and accelerometer bias based on neuro-fuzzy techniques, numerical algorithm for aircraft attitude determination - software tools (collaborations with University of Quebec);
- testers for a wide range of onboard equipments and installations, under equipped laboratories in the Avionics Department of the University of Craiova: testers for anemo-machmetric devices, flow meters, litrometers, tachometers, thermometers with thermocouples or thermo-resistive, equipment for measuring the direction of flight, attitude and heading reference systems, autopilots etc.;
- software tools and experimental platforms that serve approximately 40 laboratory works related to the disciplines Aerospace navigation systems, Onboard equipments and air navigation and Aerospace integrated navigation systems, from courses of Bachelor and Master of the Aerospace Engineering Domain from the University of Craiova.

Annex 3. List of publications (selection – ISI-web journals papers)

- A1. **Grigorie, T.L.**, Khan, S., Botez, R.M., Mamou, M., Mebarki, Y. „*Design and experimental testing of a control system for a morphing wing model actuated with miniature BLDC motors*”, Published in CHINESE JOURNAL OF AERONAUTICS (ISI Journal), ISSN: 1000-9361. (in press)
- A2. Khan, S., **Grigorie, T.L.**, Botez, R.M., Mamou, M., Mebarki, Y. “*Novel morphing wing actuator control-based Particle Swarm Optimisation*”. Published in AERONAUTICAL JOURNAL (ISI Journal), Volume: 124, Issue: 1271, JAN 2020, Pages: 55-75, DOI: 10.1017/aer.2019.114, Document Type: Article, Accession Number: WOS: 000504356300004, ISSN: 0001-9240, eISSN: 2059-6464.
- A3. Khan, S., **Grigorie, T.L.**, Botez, R.M., Mamou, M., Mebarki, Y. “*Fuzzy Logic-Based Control for a Morphing Wing Tip Actuation System: Design, Numerical Simulation, and Wind Tunnel Experimental Testing*”, Published in BIOMIMETICS (ISI Journal), Volume 4 Issue 4, Article Number 65, November 2019, Pages: 1-21, DOI: 10.3390/biomimetics4040065, Document Type: Article, eISSN: 2313-7673.
- A4. Kammegne, M.J.T., Botez, R.M., **Grigorie, T.L.**, Mamou, M., Mebarki, Y. “*A new hybrid control methodology for a morphing aircraft wing-tip actuation mechanism*”, Published in AERONAUTICAL JOURNAL (ISI Journal), Volume 123, Issue 1269, November 2019, Pages: 1757-1787, DOI: 10.1017/aer.2019.106, Document Type: Article, ISSN: 0001-9240, eISSN: 2059-6464.
- A5. Kammegne, M.J.T., Tondji, Y., Botez, R.M., **Grigorie, T.L.**, Mamou, M., Mebarki, Y. „*New control methodology for a morphing wing demonstrator*”, Published in PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART G-JOURNAL OF AEROSPACE ENGINEERING (ISI Journal), Volume: 232, Issue: 8, JUN 2018, Pages: 1479-1494, DOI: 10.1177/0954410017699003, Document Type: Article, Accession Number: WOS:000433436100007, ISSN: 0954-4100, eISSN: 2041-3025.
- A6. Botez, R.M., Koreanschi, A., Gabor, O.S., Tondji, Y., Guezguez, M., Kammegne, J.T., **Grigorie, T.L.**, Sandu, D., Mebarki, Y., Mamou, M., Amoroso, F., Pecora, R., Lecce, L., Amendola, G., Dimino, I., Concilio, A. „*Numerical and experimental transition results evaluation for a morphing wing and aileron system*”, Published in AERONAUTICAL JOURNAL (ISI Journal), Volume: 122, Issue: 1251, MAY 2018, Pages: 747-784, DOI: 10.1017/aer.2018.15, Document Type: Article, Accession Number: WOS:000431481600004, ISSN: 0001-9240.
- A7. Kammegne, M.J.T., Botez, R.M., **Grigorie, T.L.**, Mamou, M., Mebarki, Y. „*Proportional fuzzy feed-forward architecture control validation by wind tunnel tests of a morphing wing*”, Published in CHINESE JOURNAL OF AERONAUTICS (ISI Journal), Volume: 30, Issue: 2, APR 2017, Pages: 561-576, DOI: 10.1016/j.cja.2017.02.001, Document Type: Article, Accession Number: WOS:000401138900009, ISSN: 1000-9361.
- A8. Kammegne, M.J.T., **Grigorie, T.L.**, Botez, R.M., Koreanschi, A. “*Design and wind tunnel experimental validation of a controlled new rotary actuation system for a morphing wing application*”, Published in PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART G-JOURNAL OF AEROSPACE ENGINEERING (ISI Journal), Volume: 230, Issue: 1, JAN 2016, Pages: 132-145, DOI: 10.1177/0954410015588573, Document Type: Article, Accession Number: WOS:000367401400010, ISSN: 0954-4100, eISSN: 2041-3025.
- A9. Kammegne, M.J.T., **Grigorie, T.L.**, Botez, R.M., „*Design, numerical simulation and experimental testing of a controlled electrical actuation system in a real aircraft morphing wing model*”, Published in AERONAUTICAL JOURNAL (ISI Journal), Volume: 119, Issue: 1219, SEP 2015, Pages: 1047-1072, Document Type: Article, Accession Number: WOS:000361932800001, ISSN: 0001-9240.
- A10. **Grigorie, T.L.**, Botez, R.M., Popov, A.V., „*How the Airfoil Shape of a Morphing Wing is Actuated and Controlled in a Smart Way*”, Published in JOURNAL OF AEROSPACE ENGINEERING (ISI Journal), Volume: 28, Issue: 1, JAN 2015, Pages: 04014043-1 to 04014043-13, Article Number: UNSP 04014043, DOI: 10.1061/(ASCE)AS.1943-5525.0000372, Document Type: Article, Accession Number: WOS:000346341000003, ISSN: 0893-1321, eISSN: 1943-5525.
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