

LISTA DE LUCRĂRI



Comandor conferențiar universitar dr.ing. CÎRCIU Ionică

a) Teza de doctorat

CÎRCIU Ionică - Îmbunătățirea performanțelor de zbor ale elicopterelor prin aplicarea efectului Coandă - „Sistemul NOTAR” (Improving the helicopters' Flight performance by applying the COANDA effect - "NOTAR" System).

b) Cărți publicate:

1. Marian Pearsică, **Ionică Cîrciu** : "Sisteme optoelectronice de la bordul aeronavelor" Editura Academiei Forțelor Aeriene „Henri Coandă”, Brașov, ISBN 978-606-8356-28-0, 2014, (234 pagini).
2. **Ionică Cîrciu**: "Sisteme de Avionică" Editura Academiei Forțelor Aeriene „Henri Coandă”, Brașov, 2011, ISBN 978 -973-8415-90-4, (183 pagini).
3. **Ionică Cîrciu**: "Introducere în sistemele de navigație aeriană", Editura LUXLIBRIS, ISBN 978-973-131-298-9, Brașov, 2014 (106 pagini).
4. Dragos Razvan POPA, Mirela-Maria Codescu, **Ionică Cîrciu**: "Magneți permanenți utilizați în industria aeronautică", Editura Academiei Forțelor Aeriene „Henri Coandă”, Brașov, 2011, ISBN 978-973-8415-89-8, (170 pagini).
5. **Ionică Cîrciu**: "Radarul Panoramic de Bord", Editura Academiei Forțelor Aeriene „Henri Coandă”, Brașov, 2007, ISBN 978-973-8415-52-2, (117 pagini).
6. **Ionică Cîrciu**: "Instrumente de Zbor și Sisteme Electronice de Bord", Editura Academiei Forțelor Aeriene „Henri Coandă”, Brașov, 2008, ISBN 978-973-8415-57-7, 146 pag.
7. **Ionică Cîrciu**: "Sisteme Radioelectronice de Aviație și Comunicații"- curs, Ed.Academia Aviației și Apărării Antiaeriene „Henri Coandă”, Brașov, 2006, (138 pagini).
8. Florin Cențiu, **Ionică Cîrciu**: "Manual de Cunoaștere Avion IAR 99 Standard-Partea a-II-a, Instalații Electrice, Aparate de Bord, Echipamente Radioelectronice și

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9. **Cîrciu Ionică**, Ciucă Oliver, Mihai Eduard, Cioacă Cătălin: **”Armament de bord și mijloace de salvare”**, Editura Academiei Forțelor Aeriene „Henri Coandă”, Brașov, 2015 , (77 pagini).
10. **Cîrciu Ionică**: **”Echipamentul radioelectronic al avionului IAK-52”**-îndrumar de laborator, Editura Academiei Forțelor Aeriene „Henri Coandă”, Brașov 2014, ISBN 978-606-8356-26-6, (47 pagini).

c) Articole in extenso in reviste cotate ISI si in proceedings indexate ISI Thomson Reuter:

1. **Cîrciu Ionică**; Luculescu Doru; Prisacariu Vasile ; Mihai Eduard ; Rotaru Constantin: **”Theoretical Analysis and Experimental Researches regarding the Asymmetrical Fluid Flow Applied in Aeronautics”**, Hindawi Publishing Corporation Advances in Materials Science and Engineering Volume 2015, Article ID 681284, 9 pages
<http://dx.doi.org/10.1155/2015/681284>, Accession Number: WOS:000355447900001, ISSN: 1687-8434,cISSN: 1687-8442, factor de impact **FI=0,744**.
2. Pahonie, Radu; **Cîrciu, Ionica**; Boscoianu, Mircea: **”An Analysis Of Different Rotary Wing Micro Air Vehicles Solutions”**, Metalurgia International Volume: 14 Issue: 7 Pages: 43-48 Published: 2009, Accession Number: WOS:000268716400009, ISSN: 1582-2214, factor de impact **FI=0,173**
3. Prisacariu, Vasile; Boscoianu, Mircea; **Cîrciu, Ionica**: **”Morphing wing concept for small UAV”** , Edited by: Olaru, A,Conference: 8th IEEE/IACSIT/SCIEI International Conference on Optimization of the Intelligent Systems and Their Applications in Aerospace, Robotics, Mechanical Engineering, Manufacturing Systems, Biomechatronics and Neurorehabilitation (OPTIROB) Location: ROMANIA Date: Jun20-23,2013, Sponsor(s): Univ Politehnica Bucharest; Univ Assoc Sci & Technol Romania; Sci & Engn Inst; Int Assoc Comp Sci & Informat Technol; Acad Stiinte Tehnice Romania; Inst Solid Mech; Henri Coanda AF Acad; Natl Inst Res & Dev Mechatron & Measurement Tech; Pro Optica; IEEE, OPTIROB 2013: Optimization of the Intelligent Systems and their Applications in Aerospace, Robotics, Mechanical Engineering, Manufacturing Systems, Biomechatronics and Neurorehabilitation Book Series: Applied Mechanics and Materials Volume: 332 Pages: 44-49 Published:2014, Accession Number : WOS:000345269700007, ISBN:978-3-03785-733-5, ISSN: 1660-9336.
4. Cioaca, Catalin; **Cîrciu, Ionica**; Ciudatu, Eduard: **”Emerging Solutions in Modeling of Asymmetric Threats Regarding the Aeronautical System”**, Edited by: Liu, XH; Bai, ZH; Shuang, YH; et al.Conference: 2nd International Conference on Advanced Design and Manufacturing Engineering (ADME 2012) Location:Taiyuan, Peoples R China Date: AUG 16-18, 2012 .Sponsor(s):Taiyuan Univ Sci & Technol; Hong Kong Polytechn Univ; Chinese Univ Hong Kong; Natl Formosa Univ. Advanced Materials and Process Technology, PTS 1-3 Book Series: Applied Mechanics and Materials Volume: 217-219 Pages: 1561-1566 Part: 1-3 Published: 2012, Accession Number: WOS:000319169600322, ISBN:978-3-03785-502-7, ISSN: 1660-9336
5. Prisacariu, Vasile; Boscoianu, Mircea; **Cîrciu, Ionică**; Rau, CG .: **”Applications of the Flexible Wing Concept at Small Unmanned Aerial Vehicles”**, Edited by: Fan, W, Conference: 2nd International Conference on Advanced Material Research (ICAMR

- 2012) Location: Chengdu, Peoples R China Date: JAN 07-08, 2012 ,
 Sponsor(s): Singapore Inst Elect; Sci & Engn Inst
 Advanced Materials Research II. PTS 1 AND 2 Book Series: Advanced Materials
 Research Volume: 463-464 Pages: 1564-1567 Published: 2012, Accession Number
 : WOS:000308114100308, ISBN:978-3-03785-363-4, ISSN: 1022-6680
6. V. Prisacariu, C. Boşcoianu, **I. Cîrciu**, M. Boşcoianu: "**The Limits of Downsizing - A Critical Analysis of the Limits of the Agile Flying Wing MiniUAV**", OPTIROB 2015 - International Conference on Cyber Systems in the Fields of Aerospace, Robotics, Manufacturing Systems, Mechanical Engineering, June 27-30, 2015, Jupiter, Romania, Book Series: Applied Mechanics and Materials, Vol. 772, pp. 424-429, Jul. 2015, DOI:10.4028/www.scientific.net/AMM.772.424, ISBN: 978-3-03835-502-1
 7. **Cîrciu**, S. Dinea, V. Geamăn, "**Theoretical Approaches Regarding the Gasodynamic Phenomena in Asymmetric Flows**", International Conference on Materials Science and Engineering, BraMat 2015, March 4-7, 2015, Brasov, Romania, Book Series: Advanced Materials Research, Vol. 1128, pp. 364-371, Oct. 2015, DOI:10.4028/www.scientific.net/AMR.1128.364, ISBN: 978-3-03835-637-0
 8. **Cîrciu**, C. Rotaru, D. Luculescu, C. Constantinescu, "**Aircraft Engine Combustion Chamber Performances-Numerical Evaluation**", ICMERA 2015 - International Conference on Smart Systems in the Fields of Aerospace, Robotics, Manufacturing Systems, Mechanical Engineering, October 29-31, 2015, Bucharest, Romania, Book Series: Applied Mechanics and Materials, Vol. 811, pp. 167-171, Nov. 2015, DOI:10.4028/www.scientific.net/AMM.811.167, ISBN: 978-3-03835-662-2.
 9. V. Prisacariu, M. Boscoianu, **I. Cîrciu**, R. Lile, "**Aspects Regarding the Performances of Small Swept Flying Wings Mini UAV-s in Aggressive Maneuvers**", 2015 - International Conference on Smart Systems in the Fields of Aerospace, Robotics, Manufacturing Systems, Mechanical Engineering, October 29-31, 2015, Bucharest, Romania, Book Series: Applied Mechanics and Materials, Vol. 811, pp. 157-161, Nov. 2015, DOI: 10.4028/www.scientific.net/AMM.811.157, ISBN: 978-3-03835-662-2.
 10. Constantin Rotaru, Simona Roateşi, Raluca Ioana Edu, **Ionică Cîrciu**: "**Human Pilot's Dynamic Response Characteristics**", Paper ID: 102, International Conference on e-Health and Bioengineering, EHB 2015, 19-21 November 2015. Doi:10.1109/EHB.2015.7391350.
 11. C. Rotaru, **I. Cîrciu** and R. Ioana Edu: "**Mathematical Model of Induced Flow on the Airplane Vertical Tail**", ICNAAM 2015, 13th International Conference of Numerical Analysis and Applied Mathematics, 23-29 September 2015, Rhodes, Greece AIP Conf. Proc. 1738, 030046 (2016); <http://dx.doi.org/10.1063/1.4951802>
 12. Constantin Rotaru, **Ionică Cîrciu**, Doru Luculescu, "**Lift Capability Prediction for Helicopter Rotor Blade Numerical Evaluation**", Conference: ICNAAM 2015, 13th International Conference of Numerical Analysis and Applied Mathematics, 23-29 September 2015, Rhodes, Greece, AIP Conf. Proc. 1738, 410007 (2016); <http://dx.doi.org/10.1063/1.4952208>
 13. Constantin Rotaru and **Ionică Cîrciu**: "**Some Aspects Regarding Unsteady Fluid Flow with Time Dependent Boundary Conditions**", Conference : 2015 Progress in Applied Mathematics in Science and Engineering (PIAMSE) - *Applied Mathematics*, AIP Conf. Proc. 1705, 020005 (2016); <http://dx.doi.org/10.1063/1.4940253>



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1. Vasile Prisacariu, Sebastian Pop, **Ionică Cîrciu**, "**RECOVERY SYSTEM OF THE MULTI-HELICOPTER UAV**", Review of the Air Force Academy, No 1 (31) 2016, 91- 97 pag. , ISSN:2069-4733, baze de date: EBSCO, Copernicus,Google Scholar, IC Journals Master List, DOI: 10.19062/1842-9238.2016.14.1.13
2. **Ionică Cîrciu**, Vasile Prisacariu, Cristian George Constantinescu: "**Gas Turbine Mixed Jet Flows Based on the Coandă Effect**", Review of the Air Force Academy, No 3 (30) 2015, 27- 32 pag. , ISSN:2069-4733, baze de date: EBSCO, Copernicus,Google Scholar, IC Journals Master List, DOI: 10.19062/1842-9238.2015.13.3.4
3. Constantin Rotaru, **Ionică Cîrciu**, Cornel Aramă, Cristian George Constantinescu : "**Aspects Regarding Velocity Distribution in the Secondary Zone of a Gas Turbine Combustor**: " Review of the Air Force Academy, No 3 (30) 2015, 33- 38 pag. , ISSN:2069-4733, baze de date: EBSCO, Copernicus,Google Scholar, IC Journals Master List, DOI: 10.19062/1842-9238.2015.13.3.5
4. **Ionică Cîrciu** , Virgil Geamăn , Irinel Radomir , Mihai Alin Pop, "**Theoretical Analysis Regarding the Asymmetrical Fluid Flow Applied to Helicopter Aerodynamics**" , RECENT Journal, Vol. 16, no. 1(44), March, 2015, ISSN 1582-0246, 9-14 pag. baze de date : ULRICHSWEB Global Serials Directory, Index Copernicus Journal Master List.
5. **Cîrciu Ionică** , Prisacariu Vasile, Cristian George Constantinescu, "**Gas Turbine Mixed Jet Flows Based on the Coandă Effect**", Review of the Air Force Academy No 3 2015, xx-xx pag., ISSN:2069-4733, baze de date: EBSCO, COPERNICUS , Google Scholar, IC Journals Master List
6. Constantin Rotaru, **Ionică Cîrciu**, Raluca Ioana Edu, Oliver Ciuică, Eduard Mihai, "**Nonlinear Effects of the Sidewash Gradient on an Airplane Vertical Tail**", International Conference of Scientific Paper AFASES 2015 Brasov, 28-30 May 2015, ISSN, ISSN-L:2247-3173, baze de date : EBSCO, COPERNICUS.
7. Vasile Prisacariu, **Ionică Cîrciu**, Sebastian Pop, "**Instruments for the Evaluation of the Aerodynamic Performance of Wind Tunnels**" International Conference of Scientific Paper AFASES 2015 Brasov, 28-30 May 2015, ISSN, ISSN-L:2247-3173, baze de date : EBSCO, COPERNICUS
8. V. Prisăcariu, **I. Cîrciu**, A. Luchian , "**Unmanned Aircraft Vehicle (UAV) in the Romanian Airspace. An Overview**", Journal of Defense Resources Management, No.1/2014, 123-128 pag., ISSN: 2068-9403, baze de date: ULRICH'S, DOAJ, EBSCO, PROQUEST, CEEOL, CABELL'S, Index Copernicus, WORLDCAT, AJD, KVK.
9. Vasile Prisacariu, **Ionică Cîrciu**, Cătălin Cioacă, Mircea Boșcoianu, Andrei Luchian , "**Multi Aerial System Stabilized in Altitude for Information Management**", Review

of the Air Force Academy, No 3 (27) 2014, 89-94 pag., ISSN:2069-4733, baze de date: EBSCO, Copernicus , Google Scholar, IC Journals Master List.

10. **Ionică Cîrciu**, Andrei Luchian, "**Integrated Avionic System Specific for Air Traffic Safety** ", Review of the Air Force Academy No 3 (27) 2014, 11-14 pag., ISSN:2069-4733, baze de date: EBSCO, COPERNICUS , Google Scholar, IC Journals Master List
11. **Ionică Cîrciu**, Andrei Luchian, "**Theoretical Aspects Related to Flight Safety Systems in Early Warning Air Traffic Conflict**" , International Conference of Scientific Paper AFASES 2014 Brasov, 22-24 May 2014, ISSN, ISSN-L:2247-3173, baze de date : EBSCO, Copernicus
12. M. Boşcoianu , V. Prisacariul , **I. Cîrciu** , A. LUCHIAN , C.CIUFUDEAN, "**Aspects regarding the global performance for a small swept flying wing UAV in aggressive turns**", Latest Trends in Applied and Theoretical Mechanics, Proceedings of the 10th International Conference on Applied and Theoretical Mechanics (MECHANICS '14), Salerno, Italy, June 3-5, 2014, ISBN: 978-960-474-377-3, baze de date: EBSCO, Google Scholar
13. Constantin Rotaru, **Ionică Cîrciu**, and Mihai Ivănică, "**Numerical simulation of flow over a helicopter rotor blade airfoil with a filled cavity**" , Applied Numerical Mathematics and Scientific Computation, Proceedings of the 2nd International Conference on Applied Mathematics and Computational Methods (AMCM 2014), Athens, Greece November 28-30, 2014, 41-46 pag., ISBN: 978-1-61804-253-8, baze de date: EBSCO, Google Scholar
14. Constantin Rotaru, **Ionică Cîrciu**, "**Integrated mathematical model of the engine and the aircraft longitudinal dynamics**", Applied Numerical Mathematics and Scientific Computation, Proceedings of the 2nd International Conference on Applied Mathematics and Computational Methods (AMCM 2014), Athens, Greece November 28-30, 2014, 41-46 pag., 71-78 pag, ISBN: 978-1-61804-253-8, baze de date: EBSCO, Google Scholar
15. Prisacariu Vasile; **Cîrciu Ionică**; Boşcoianu Mircea , "**Morphing concept of UAVs of the swept flying wing**", RECENT Journal, Vol. 15, no. 1(41), March, 2014, ISSN 1582-0246, 26-33 pag., baze de date : ULRICHSWEB Global Serials Directory, Index Copernicus Journal Master List
16. M. Boşcoianu, C. Cioacă, C. G. Rău, **I. Cîrciu**, "**Concerted Systems for Increasing the Survivability of the Aircraft against Terrorist Threats**", Applied Mechanics and Materials, Vols. 325-326, pp. 756-760, Jun. 2013 baze de date: Index Copernicus Journals Master List , Google Scholar, Chemical Abstracts (CAS) , Cambridge Scientific Abstracts (CSA) , Inspec (IET, Institution of Engineering Technology), SCImago Journal & Country Rank (SJR) ,ProQuest , EBSCO , CiteSeerX ,Scopus.
17. Vasile Prisacariu , **Ionică Cîrciu** , "**The analysis of the flying wing in morphing concept**", INCAS Bulletin, Volume 5, Issue 2/ 2013, pp. 43 – 52, ISSN 2066 – 8201,

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18. **Ionica Cîrciu**, Luchian Andrei, Mircea Boscoianu, "**Innovative Multiple It&C Low Cost Systems used in Secure Communications**", Journal of Defense Resources Management, Vol .4 Issue 1(6)2013, 203-210 pag pag., ISSN: 2068-9403, baze de date: ULRICH'S, DOAJ, EBSCO, PROQUEST, CEEOL, CABELL'S, Index Copernicus, Worldcat, AJD, KVK,
 19. **Ionică Cîrciu** , Vasile Prisacariu , "**Command and Control of the Flying Wing in the Morphing Concept**", Review of the Air Force Academy No 1 (23) 2013, 13-18 pag. , ISSN:2069-4733, baze de date: EBSCO, Copernicus ,Google Scholar, IC Journals Master List
 20. Vasile Prisacariu , Mircea Boşcoianu, **Ionică Cîrciu**, "**Research Regard Upgrade of UAV in Low Cost Concept**", International Conference of Scientific Paper AFASES 2012 Brasov, 24-26 May 2012, ISSN, ISSN-L:2247-3173, baze de date : EBSCO, COPERNICUS
 21. Vasile Prisacariu, **Ionică Cîrciu**, Mircea Boşcoianu, "**Flying Wing Aerodynamic Analysis**", Review of the Air Force Academy, No 2/ 2012, 31-35 pag. , ISSN 1842-9238, baze de date: EBSCO, Copernicus,Google Scholar, IC Journals Master List
 22. Vasile Prisacariu, **Ionică Cîrciu**, Mircea Boşcoianu , "**Management Of Robotic Aerial Systems (Ras) Accomplishment**", Recent Journal, Vol. 13, no. 2(35), July, 2012, 203-217 pag., ISSN 1582-0246, baze de date : ULRICHWEB Global Serials Directory, Index Copernicus Journal Master List
 23. **Ionică Cîrciu**, Ştefan Mircea Mustaţă : "**Aspects in Obtaining new Multi-Layer Structures using Nonconventional Methods**", SCIENCE & MILITARY, Armed Forces Academy of General Milan Rastislav Stefanik, Liptovsky Mikulas, Slovak Republic, No. 1/2012, 78-81pag., baze de date: ProQuest, DOAJ, EBSCO, ULRICH, etc.
 24. Ştefan Mircea Mustaţă, Mihai Mihăilă-Andres, Ciprian-Marius Larco, **Ionică Cîrciu**, "**Mechanics to Obtain Multi-Layer Materials Using the Explosive Welding Method** " Review of the Air Force Academy Vol IX, No 1(18)/2011, pp.17 – 21, ISSN 1842-9238, baze de date: EBSCO, Copernicus , Google Scholar, IC Journals Master List
 25. **Ionică Cîrciu**, Florin Nedelcuţ , Sorin Dinea , "**Coandă Effect Used To Improve The Efficiency Of A Rotary Wing Aircraft**" , The Annals of "Dunarea de Jos" University of Galati Fascicle XIV Mechanical Engineering, ISSN 1224-5615, 2010, baze de date: EconLit , REPEC, DOAJ, EBSCO, Index Copernicus, ULRICH, ECONIS, ZBW, Cambridge Scientific Abstract
 26. Alexandru Găluşcă, Traian Anastasie, Gabriela Prelipcean, **Ionică Cîrciu** , Mircea Boscoianu, "**Aspects Regarding the use of Innovative Decision Support Systems in Military Applications**", Science & Military 2/2010, 67-71 pp, doi:10.3849/1802-7199, baze de date: ProQuest, DOAJ, EBSCO, ULRICH
 27. Rotaru, Constantin; **Cîrciu, Ionică**; Boşcoianu, Mircea, "**Computational methods for the aerodynamic design**", Review of the Air Force Academy vol2.No17 2010,43-48pp. , ISSN:2069-4733, baze de date: EBSCO, COPERNICUS, Google Scholar, IC Journals Master List

28. Pavel Nečas, **Ionică Cîrciu**, Constantin Rotaru, Mircea Boşcoianu, "**An Analysis of the Stability and Performances of Rotary Wing Micro Aerial Vehicle** " Review of the Air Force Academy No 1(16)/2010, 5-9 pp. , ISSN:2069-4733, baze de date: Zentralblatt MATH – ZMATH Online Database, Berlin, Germany ProQuest LLC, Ann Arbor, Michigan, USA EBSCO Publishing, Inc., Ipswich, Massachusetts, USA
29. **Ionica Cîrciu**, Mircea Boscoianu, Stanislav Szabo, "**Some aspects regarding the flight dynamics and stability of quad-rotors micro aerial vehicles**", SCIENCE & MILITARY, Armed Forces Academy of General Milan Rastislav Stefanik, Liptovsky Mikulas, Slovak Republic, No. 1/2010, 31-35 pag., doi:10.3849/1802-7199, baze de date: ProQuest, DOAJ, EBSCO, ULRICH
30. **Cîrciu, Ionică**; Boscoianu, Mircea; Găluşcă, Alexandru, "**Review of Models and Analytic Instruments in Operational Military Decision Making Process**", Journal of Defense Resources Management (JoDRM), No.1/2010, 93-100pag., ISSN: 2068-9403, baze de date: ULRICH'S, DOAJ, EBSCO, ProQuest, CEEOL, CABELL'S, Index Copernicus,
31. Mircea Boşcoianu, Vasile Prisecariu, **Ionică Cîrciu**, "**Applications and Computational Aspects Regarding the Coandă Effect** ", Science & Military, Armed Forces Academy of General Milan Rastislav Stefanik, Liptovsky Mikulas, Slovak Republic, No. 1/2010, 26-30 pag., doi:10.3849/1802-7199, baze de date: ProQuest, DOAJ, EBSCO, ULRICH
32. **Cîrciu Ionică**: Dinea Sorin, "**Review of applications on Coandă effect. history, theories, new trends**" , Review of the Air Force Academy Henri Coanda No 2(16)/2010, 14-21 pag., 100 - Celebrating 100 years from the first jet flight, ISSN:2069-4733, baze de date: Zentralblatt MATH – ZMATH Online Database, Berlin, Germany ProQuest LLC, Ann Arbor, Michigan, USA EBSCO Publishing, Inc., Ipswich, Massachusetts, USA
33. **Ionică Cîrciu**, Sorin Dinea, Mircea Boşcoianu, "**Review of Contributions Regarding Coanda Effect**", Review of the Air Force Academy Henri Coanda, No 2/2009,5-8 pag. , ISSN 1842 – 9238, baze de date: Zentralblatt MATH – ZMATH Online Database, Berlin, Germany ProQuest LLC, Ann Arbor, Michigan, USA EBSCO Publishing, Inc., Ipswich, Massachusetts, USA
34. **Ionică Cîrciu**, "**Concerning About the Impact Of Materials Obtained By Non-Conventional Routes Within Infantry Ammunition**", Metalurgia . oct 2008, Vol. 60 Issue 10, pp.35-37, baze de date: EBSCO , ULRICH.

e) Articole publicate in reviste nationale si volumele unor manifestari stiintifice nationale si internationale neindexate

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3. Geaman Virgil, Zaharia Ioan Iulian, **Cîrciu Ionică** -"The 21th Century Prediction in Aerospace Industry from the Materials Point Of View-polymer composites for aeronautics " in Optimum Technologies, Technologic Systems and Materials in the Machines Building Field, TSTM, ISSN 1224-7499, Issue: TSTM - Number 11, Volume II (2005)
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 5. **Ionică Cîrciu**- "Îmbunătățirea Randamentului Aplicării Efectului Coandă la Elicoptere " AFASES 2008 „Scientific Research and Education in the Air Force” ,16 – 17 MAY 2008 Brașov , I.S.B.N. 978-973-8415-56-0
 6. **Cîrciu I.**, Mustață Șt.- „ Aspecte privind modelarea obținerii unor structuri stratificate utilizand metoda elementelor finite”, Metalurgia nr. 9 din 2008 ISSN 0461-9579, 41-44 pag.
 7. Geamăn V., **Cîrciu I.**- „The 21-th century prediction in aerospace industry from the materials point of view”, Revista Română de Mecanică Fină, Optică și Mecatronică Supliment la nr.28 din 2005. Al III-lea Simpozion Internațional Mecatronică, Microtehnologii și Materiale Noi, 18-19 nov.2005 Târgoviște, ISSN 1584-5982.
 8. **Ionică Cîrciu**-„Helicopter Antitorque System using Circulation Control”, AFASES 2009 - Scientific Research and Education in the Air Force , 20-22 MAY, BRASOV, 32-35pag., I.S.B.N. 978-973-8415-67-6
 9. **Ionică Cîrciu** -“Advanced Composite Materials For Notar Helicopter Fuselage”, AFASES 2009 - Scientific Research and Education in the Air Force , 20-22 MAY, BRASOV, 857-861pag., I.S.B.N. 978-973-8415-67-6
 10. Nečas P., Boșcoianu M., **Cîrciu I.**- „An Analysis of the Dynamic Performances of Rotary Wing - Micro Air Vehicles in A New 4R Architecture ”, VIthInternational Symposium on Defence Technology , 6-7 May 2010 Budapest, Hungary.
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 12. Mircea Boșcoianu, **Ionică Cîrciu** - “ Rotary Wing Micro Air Vehicles Solutions“ Scientific Research and Education in the Air Force AFASES – 2010, 27-29 May, Brasov , 1109-1114 pag. , I.S.B.N. 978-973-8415-76-8
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 14. Vasile Prisacariu, Vasile Șandru, **Ionica Cîrciu** - “ Introduction Morphing Technology in Unmanned Aircraft Vehicles (UAV) “ , International Conference of Scientific Paper AFASES 2011 Brasov, 26-28 May 2011 , pag.1241-1246, ISSN: 2247- 3173
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 19. **Cîrciu I.**, **Dinea S.**- „**Improving the Elicopter”s Flight Performance by Applying the Coanda effect**”, Armed Forces Academy of General Milan Rastislav Stefanik, Liptovsky Mikulas, ISBN:978-80-8040-404-829 , Slovak Republic, 2010 .
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 21. **Brudan C.**, **Cîrciu I.**, **Laza S.**- „**Aspects Regarding an Innovative Design of a Low Cost Wind Tunnel for Supporting The Education In Academy**”-International Conference of Aerospace Sciences, Aerospacial 2010”, București, 20-21 Oct. 2010, ISSN:2067-8622.
 22. **Vasile Prisecariu**, **Mircea Boşcoianu**, **Ionică Cîrciu**,- "**Design and construction a flying wing unmanned aerial vehicles**" , International Conference on Military Technologies 2013, Faculty of Military Technology, University of Defence in Brno
 23. **Constantin Rotaru**, **Ionică Cîrciu**, **Oliver Ciuică**, **Eduard Mihai** -"**Reduced Order Model for the Aircraft-Engine Longitudinal Dynamics**", International Conference on Scientific Aspects Concerning Operation Ofmanned and Unmanned Aerial Vehicles, Deblin, 20 - 22.V. 2015, Polonia.

f) Proiecte si rapoarte stiintifice

1. Director de proiect: ” **Eficacitatea protecției elicopterelor prin vopsirea în culori de camuflaj tip pădure**”, proiect din Planul Sectorial de Cercetare-Dezvoltare (PSCD) al MApN, pe anul 2010, (raport existent la biblioteca academiei).
2. Director de proiect: ” **Realizarea practică a unui tunel aerodinamic ca suport de cercetare și de laborator pentru disciplinele de profil din cadrul Academiei Forțelor Aeriene „Henri Coandă**”, proiect din Planul Sectorial de Cercetare-Dezvoltare (PSCD) al MApN, pe anul 2011, (machetă funcțională în laboratorul de sisteme de avionică+ raport existent la biblioteca academiei).

3. Director de proiect: ” **Imbunătățirea sistemelor de combatere și recunoaștere a țintelor aeriene**”, proiect din Planul Sectorial de Cercetare-Dezvoltare (PSCD) al MAPN, pe anul 2012, (raport științific existent la biblioteca academiei).

g) Proiecte câștigate prin competiție :

1. Responsabil științific , membru, în proiectul *Sistem aerian multiagent cu stație de sol mobilă pentru managementul informațiilor (MASIM)*, PN II-PT-PCCA-2013-4-1349, perioada 2014-2016 (2 ani și 6 luni), contract 255/2014, în care unitatea conducătoare a proiectului este Academia Forțelor Aeriene „Henri Coandă” Brașov, director de proiect –prof.univ.dr.ing. Boșcoianu Mircea. Buget proiect (bugetul de stat): 1.059.000 lei .
2. Responsabil de proiect din partea AFA, Partener 3, în cadrul proiectului *Turbina de gaze cu combustie in situ* (TURIST), PN II-PT-PCCA-2013-4-1187, nr. 286 / 2014, perioada 2014-2016 (2 ani și 6 luni), în care unitatea conducătoare a proiectului este Institutul Național de Cercetare Dezvoltare Turbomotoare Comoti, director de proiect – prof.univ.dr.ing. Sterian Dănăilă. Buget proiect (bugetul de stat): 1.250.000,00 lei .

16.06.2016

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