

LISTA LUCRĂRILOR ȘTIINȚIFICE

dr. MIHAI EDUARD-IONUȚ

A. Teza de doctorat:

“FORMAREA PILOȚILOR ÎN AVIAȚIA MILITARĂ ÎN CONTEXTUL ACTUAL DE MODERNIZARE A FORȚELOR AERIENE”, UNIVERSITATEA NAȚIONALĂ DE APĂRARE „Carol I”, 2016.

B. Articole publicate:

B1. În reviste de profil:

- [1.] Vasile PRISACARIU, Irina ANDREI, **Eduard MIHAI**, *Analyzes Regarding Aviation Fuels Parameters Use on Jet Engines*, INCAS BULLETIN, Volume 16, Issue 2/ 2024, pp. 113 – 122, ISSN 2066-8201, DOI: 10.13111/2066-8201.2024.16.2.9, https://bulletin.incas.ro/files/prisacariu-v_all_vol_16_iss_2.pdf
- [2.] Moșoiu, O., Bălăceanu, I., **Mihai, E.** *Cyber terrorism and the effects of the Russian attacks on democratic states in East Europe*. Scientific Journal of Silesian University of Technology. Series Transport. 2020, 106, 131-139. ISSN: 0209-3324. DOI: <https://doi.org/10.20858/sjsutst.2020.106.11>.
- [3.] **MIHAI, Eduard**; CIUICĂ, Oliver; *The Influence of Organizational Culture on Flight Safety*, Science & Military Journal, Vol. 10, Editura Academiei Militare din Slovacia „General Milan Rastislav Štefánik”, 2015, p. 19. <https://search.proquest.com/docview/1697563118?pq-origsite=gscholar&fromopenview=true>
- [4.] Dănuț BĂLOS, Ionică CÎRCIU, Oliver CIUICĂ, **Eduard MIHAI**, *Theoretical considerations regarding the ACAS (Airborne Collision Avoidance Systems)*, articol, „Reviw of the Air Force Academy”, nr. 3 (38)/2018, Editura Academiei Forțelor Aeriene „Henri Coandă”, Brașov, 2018, p. 21; http://ns.afahc.ro/ro/revista/2018_3/RevNo3-2018.pdf#page=21
- [5.] Dinu Pădurariu, Nicolae Crețu, **Eduard MIHAI**, *Maritime security threats in the Black Sea region*, articol, „Reviw of the Air Force Academy”, nr. 3 (35)/2017, Editura Academiei Forțelor Aeriene „Henri Coandă”, Brașov, 2017, p. 137; http://ns.afahc.ro/ro/revista/2017_3/17-DinuPadurariu,%20NicolaeCretu,EduardMihai.pdf
- [6.] Constantin Rotaru, George Cristian Constantinescu, Oliver Ciuică, Ionică Cîrciu, **Eduard MIHAI**, *Mathematical Model and CFD Analysis of Partially Premixed Combustion in a Turbojet*, articol, „Reviw of the Air Force Academy”, nr. 2 (32)/2016, Editura Academiei Forțelor Aeriene „Henri Coandă”, Brașov, 2016, p. 83; <https://pdfs.semanticscholar.org/35bf/0752c03118703d48af96995b456beb95fcc2.pdf>
- [7.] **MIHAI, Eduard**; CIUICĂ, Oliver. *The role of the first instructor in cultivating the aviation safety concept*, articol, „Reviw of the Air Force Academy”, nr. 2 (29)/2015, Editura Academiei Forțelor Aeriene „Henri Coandă”, Brașov, 2015, p. 43; http://213.177.9.66/ro/revista/2015_2/Revista%202%202015.pdf#page=44
- [8.] Ionica, Cîrciu; Luculescu, Doru; Prisacariu, Vasile; **Mihai, Eduard**; Rotaru, Constantin. *Theoretical analysis and experimental researches regarding the asymmetrical fluid flow applied in aeronautics*. Advances in Materials Science and Engineering; New York, Vol. 2015, DOI:10.1155/2015/681284 <https://www.hindawi.com/journals/amse/2015/681284/>



- [9.] Cornel ARAMĂ, Constantin ROTARU, Mariana ARAMĂ, **Eduard MIHAI**, *A comparative analysis between two types of vehicles which could be used as UAV launchers mobile platform*, articol, „Review of the Air Force Academy”, nr. 3 (30)/2015, Editura Academiei Forțelor Aeriene „Henri Coandă”, Brașov, 2015, p. 143;
http://www.afahc.ro/ro/revista/2015_3/ARAMA_ROTARU_ARAMA_MIHAI_2015_3.pdf
- [10.] **Eduard MIHAI**, Ovidiu MOȘOIU, *Analysis of the Romanian Air Force squadron organizational culture*, articol, „Review of the Air Force Academy”, nr. 2 (26)/2014, Editura Academiei Forțelor Aeriene „Henri Coandă”, Brașov, 2014, p. 29;
http://213.177.9.66/ro/revista/Nr_2_2014/29_MIHAI_MOSOIU.pdf
- [11.] Aramă, Cornel, **Mihai, Eduard**, „Investigation of the Possibilities to Extend the Concept of Stability to Military Aircraft”, „Review of the Air Force Academy”, The Scientific Informative Review, No 1(18)/2011, May 2011 – “Henri Coandă” Air Force Academy Printed House, (online) ISSN 2069-4733, ISSN-L 1842 – 9238;
http://www.afahc.ro/ro/revista/review_quotes.html

B2. În volumele unor manifestări științifice:

- [12.] Vasile PRISACARIU, **Eduard MIHAI**, *Preliminary Design of Aircraft Using Freeware XFLR5*, „Scientific Research and Education in the Air Force”, AFASES-2024, 23-25 mai, Proceedings, ISSN: 2247-3173, Publishing House of “Henri Coanda” Air Force Academy, Brașov, 2024, p. 198, <https://www.afahc.ro/ro/afases/2024/Volume-AFASES2024/23-VasilePRISACARIU,EduardMIHAI.pdf>
- [13.] Ionică CÎRCIU, **Eduard MIHAI**, *Weapon Systems and Missions Specific to the F16 Aircraft in the Romanian Air Force*, „Scientific Research and Education in the Air Force”, AFASES-2023, 25-27 mai, Proceedings, ISSN: 2247-3173, Publishing House of “Henri Coanda” Air Force Academy, Brașov, 2023, p. 137, <https://ns.afahc.ro/afases/Volume-AFASES2023#page=137>
- [14.] **Eduard-Ionuț MIHAI**: *Comparative Analysis of Military Pilots Training Programs in the Romania Air Force and the Polish Air Force*, „MSE 2019”, MATEC Web of Conferences, Vol. 290, 13007 (2019), DOI:10.1051/mateconf/201929013007.
https://www.matec-conferences.org/articles/mateconf/pdf/2019/39/mateconf_mse2019_13007.pdf
- [15.] **Eduard-Ionuț MIHAI**, Ioan Dănuț BĂLOS: *Vulnerabilities of the Romania Air Force pilot training system manifested in the flight training process*, „MSE 2019”, MATEC Web of Conferences, Vol. 290, 13008 (2019), DOI:10.1051/mateconf/201929013008.
https://www.matec-conferences.org/articles/mateconf/pdf/2019/39/mateconf_mse2019_13008.pdf
- [16.] **Eduard MIHAI**, Ovidiu MOȘOIU, Ion BĂLĂCEANU; *Adoption of the Global compact for migration and the steps to follow in the european regional context*, „International Conference RCIC'19”, Proceedings, ISSN: 2285-2689; Publishing House of “Henri Coanda” Air Force Academy, Vlora, 2-4 Mai, 2019, p. 47
http://www.afahc.ro/ro/rcic/2019/rcic'19/volum_2019/047-052%20Mihai%20et%20al.pdf
- [17.] Ovidiu MOȘOIU, **Eduard MIHAI**, Ion BĂLĂCEANU; *Illegal migration, the current issue of the security of nations*, „International Conference RCIC'19”, Proceedings, ISSN: 2285-2689; Publishing House of “Henri Coanda” Air Force Academy, Vlora, 2019, p. 53.
http://www.afahc.ro/ro/rcic/2019/rcic'19/volum_2019/053-059%20Mosoiu%20et%20al.pdf
- [18.] Constantin ROTARU, Janel TANASE, Oliver CIUICA, **Eduard MIHAI**; *Coaxial rotor systems—characteristics and performances*, Proceedings. The 20th „International Conference of Scientific Paper”, „Scientific Research and Education in the Air Force”, AFASES-2018, Proceedings, ISSN: 2247-3173; Publishing House of “Henri Coanda” Air Force Academy in

- colaborare cu "General M.R. Stefanik" Armed Forces Academy Slovak Republic, Braşov, 2018, p. 233;
<http://www.afahc.ro/ro/afases/2018/31-ConstantinROTARU,JaneITANASE,OliverCIUICA,EduardMIHAI.pdf>
- [19.] **MIHAI, Eduard-Ionut**; Ciuica, Oliver; *Comparative Analysis of Military Flying Training Systems from Romania and the United States of America*, International Conference STRATEGIES XXI. Volume 3. Bucharest, 2016, Carol I National Defence University Publishing House 2016/ Proceedings, Bucureşti, 2016, p. 303;
<https://search.proquest.com/openview/b148d1c54c5311c6ca980cd5a0b658dc/1?pq-origsite=gscholar&cbl=2026346>
- [20.] Oliver CIUICĂ, **Eduard MIHAI**, Carmen ŞTEFAN; *Flight safety introduction for student pilots*, Proceedings. „Scientific Research and Education in the Air Force”, AFASES-2016, Proceedings, ISSN: 2247-3173; Publishing House of "Henri Coanda" Air Force Academy în colaborare cu "General M.R. Stefanik" Armed Forces Academy Slovak Republic, Braşov, 2016, p. 21;
http://ns.afahc.ro/ro/afases/2016/AIRFORCE/CIUICA_MIHAI_STEFAN.pdf
- [21.] Constantin ROTARU, Oliver CIUICA, **Eduard MIHAI**, Ionică CÎRCIU, Radu DINCĂ; *Simplified mathematical model for aircrafts response characteristics*, Proceedings. „Scientific Research and Education in the Air Force”, AFASES-2016, Proceedings, ISSN: 2247-3173; Publishing House of "Henri Coanda" Air Force Academy în colaborare cu "General M.R. Stefanik" Armed Forces Academy Slovak Republic, Braşov, 2016, p. 55
http://ns.afahc.ro/ro/afases/2016/AIRFORCE/ROTARU_CIUICA_MIHAI_CIRCUIU.pdf
- [22.] **Eduard MIHAI**, Oliver CIUICĂ; *Foundation of the early piloting schools in Romania*, Proceedings. „Scientific Research and Education in the Air Force”, AFASES-2015, Proceedings, ISSN: 2247-3173; Publishing House of "Henri Coanda" Air Force Academy în colaborare cu "General M.R. Stefanik" Armed Forces Academy Slovak Republic, Braşov, 2015, p. 71
http://www.afahc.ro/ro/afases/2015/afases_2015/air_force/Mihai_Ciuica.pdf
- [23.] Oliver CIUICĂ, **Eduard MIHAI**; *Human error – cockpit vulnerabilities*, Proceedings. „Scientific Research and Education in the Air Force”, AFASES-2015, Proceedings, ISSN: 2247-3173; Publishing House of "Henri Coanda" Air Force Academy în colaborare cu "General M.R. Stefanik" Armed Forces Academy Slovak Republic, Braşov, 2015, p. 43;
http://www.afahc.ro/afases/volum_afases_2015_I.pdf#page=45
- [24.] Constantin ROTARU, Ionică CÎRCIU, Raluca-Ioana EDU, Oliver CIUICĂ, **Eduard MIHAI**; *Nonlinear effects of the sidewash gradient on an airplane vertical tail*, Proceedings. „Scientific Research and Education in the Air Force”, AFASES-2015, Proceedings, ISSN: 2247-3173; Publishing House of "Henri Coanda" Air Force Academy în colaborare cu "General M.R. Stefanik" Armed Forces Academy Slovak Republic, Braşov, 2015, p. 475;
http://www.afahc.ro/ro/afases/2015/afases_2015/mecanica/Rotaru_Circiu_Edu_Ciuica_Mihai.pdf
- [25.] **Eduard MIHAI**; *Precision approach system based on global navigation satellite system*, Proceedings. „Scientific Research and Education in the Air Force”, AFASES-2014, Proceedings, ISSN: 2247-3173; Publishing House of "Henri Coanda" Air Force Academy în colaborare cu "General M.R. Stefanik" Armed Forces Academy Slovak Republic, Braşov, 2014, p. 53;
<http://www.afahc.ro/ro/afases/2014/forte/Mihai%20Eduard.pdf>
- [26.] Oliver CIUICĂ, Marcel PREDESCU, **Eduard MIHAI**; *Playing with the safety due to lack of resources*, Proceedings. „Scientific Research and Education in the Air Force”, AFASES-2014, Proceedings, ISSN: 2247-3173; Publishing House of "Henri Coanda" Air Force

Academy în colaborare cu "General M.R. Stefanik" Armed Forces Academy Slovak Republic, Braşov, 2014, p. 25;
<http://www.afahc.ro/ro/afases/2014/forte/CIUICA.pdf>

C. Cărţi publicate:

- [1.] **Eduard-Ionuţ MIHAI**, *Formarea piloţilor militari. Trecut, prezent şi viitor*, Editura Academiei Forţelor Aeriene "Henri Coandă", Braşov, 2018, ISBN 978-606-8356-63-1;
- [2.] **Eduard-Ionuţ MIHAI**, *Navigaţie aeriană*, Editura Academiei Forţelor Aeriene "Henri Coandă", Braşov, 2020, ISBN 978-606-8356-85-3;
- [3.] **Eduard-Ionuţ MIHAI**, *Navigaţie aeriană - Ediţia a II-a reviz. şi adăug*, Editura Academiei Forţelor Aeriene "Henri Coandă", Braşov, 2025, ISBN 978-630-6507-38-2;
- [4.] Vasile PRISCARIU, **Eduard-Ionuţ MIHAI**, *Management aeroportuar. Vol. I Aerodromuri*, Editura Academiei Forţelor Aeriene "Henri Coandă", Braşov, 2019, ISBN 978-606-8356-70-9;
- [5.] **Eduard-Ionuţ MIHAI**, *Aeronave de şcoală şi antrenament. Tehnică de pilotaj pentru avionul IAK-52*, curs universitar, Editura Academiei Forţelor Aeriene „Henri Coandă”, Braşov, 2019, ISBN 978-606-8356-74-7;
- [6.] **Eduard-Ionuţ MIHAI**, Oliver CIUICĂ, *Aeronave de şcoală şi antrenament. Tehnică de pilotaj pentru elicopterul IAR-316B*, curs universitar, Editura Academiei Forţelor Aeriene „Henri Coandă”, Braşov, 2019, ISBN 978-606-8356-77-8;
- [7.] **Eduard-Ionuţ MIHAI**, *Aeronave de şcoală şi antrenament. Tehnică de pilotaj pentru avionul IAK-52 – Ediţia a II-a reviz. şi adăug*, curs universitar, Editura Academiei Forţelor Aeriene „Henri Coandă”, Braşov, 2025, ISBN 978-630-6507-37-5;
- [8.] **Eduard-Ionuţ MIHAI**, *Comunicaţii aeronautice - curs*, curs universitar, Editura Academiei Forţelor Aeriene „Henri Coandă”, Braşov, 2020;

D. Alte lucrări şi contribuţii ştiinţifice sau, după caz, din domeniul creaţiei artistice:

- Director în cadrul **proiectului de cercetare practic-aplicativ**: „*Studiu privind limitele şi performanţele umane în activitatea de zbor*”, desfăşurat în cadrul planului sectorial de cercetare-dezvoltare al M.Ap.N. pe anul 2015, proiect care a beneficiat de resurse materiale alocate de către instituţia menţionată.
- Membru în colectivul de elaborare al „*Programului cadru de instrucţie în zbor pe avionul IAK-52*”, Statul Major al Forţelor Aeriene, Boboc, 2014.

