

Lista de lucrări și proiecte științifice

dr. Sebastian POP

A. LUCRĂRI ȘTIINȚIFICE

2015

1	" Instruments for the evaluation of the aerodynamic performance of wind tunnels " Prisacariu V., Cîrciu I., Pop S. , , International conference "Scientific Research and Education in Air Force" AFASES 2015 Brașov., ISSN 2247-3173, p. 93-98.
2	" UAS control with morphing wing " Prisacariu V., Cîrciu I., Pop S. , , The 2nd edition of New Challenges in Aerospace Science International Conference NCAS 2015, nov. 2015, București.
3	" Aerial Infrared Thermography: A scalable procedure for photovoltaics inspections based on efficiency and flexibility ", Catalin Cioaca, Sebastian Pop , Elena Corina Boscoianu, Mircea Boscoianu, Applied Mechanics and Materials, vol. 772, p. 546-551, TransTech publishing, https://doi.org/10.4028/www.scientific.net/AMM.772.546
4	" Study on performance-based transformation in the case of aviation technology insertion " Catalin Cioaca, Mircea Boscoianu, Sebastian Pop , , Review of the Air Force Academy 1/2015, p.39-44
5	" Posibilități moderne de monitorizare a stării vegetative a culturii de cartof " Gh. Olteanu, George Pristavu, Sebastian Pop , Adrian Ghinea, Isabela Puiu, , CARTOFUL în România, vol.24, 1/2015, ISSN 1583-1655
6	" De la sistemul tradițional la sistemul SMART în managementul culturii cartofului " Olteanu Gh, Pristavu G., Chiru S., Pop S., Ghinea A., , HORTUS 14/2015, p123-128,

2016

7	" Recovery system of the multi-helicopter UAV " Prisacariu V., Pop S. , Cîrciu I., , REVIEW OF THE AIR FORCE ACADEMY, 1(31)/2016, Brașov, Romania, DOI: 10.19062/1842-9238.2016.14.1.13, ISSN 1842-9238; e-ISSN 2069-4733, p 92-98.
8	" Multiple criteria analysis of remotely piloted aircraft systems for monitoring the crops vegetation status " L. Cristea, M.C. Luculescu, S.C. Zamfira, A.L. Boer, S. Pop , , IOP Conference Series: Materials Science and Engineering, vol 147, Pagini 012059, IOP publishing
9	" Risk planning in aviation scientific research projects " Catalin CIOACA, Sebastian POP , , Scientific Research & Education in the Air Force-AFASES 2016, DOI: 10.19062/2247-3173.2016.18.1.18

2017

10	" The Evolution of Unmanned Aerial Vehicles ", Sebastian Pop , Andrei Luchian, Răzvan Georgian Zmădu, Emil Olea, Review of the Air Force Academy 3/2017, p. 125-132, publisher Henri Coanda Air Force Academy
11	" Risk management regarding the use of UAV in the modern air space " Sebastian POP , Octavian ISAILĂ, Dragoș PREDA, Andrei-Mihai LUCHIAN, , Scientific Research & Education in the Air Force-AFASES, DOI: 10.19062/2247-3173.2017.19.1.18
12	" Considerations Regarding Detection and Combat Systems for UAV's ", Sebastian POP, Andrei LUCHIAN, RECENT Online, vol. 18, 1/2017, p.49-55

2018

13	" Study of Alternative Solution for Aerial PhotoGrammetry " Sebastian Pop , Arthur Nicolae, Ilona Mădălina Costea, , 2018 IEEE 24th International Symposium for Design and Technology in Electronic Packaging (SIITME), p. 373-376, DOI: 10.1109/SIITME.2018.8599229 , IEE publisher
14	" Improving communication between unmanned aerial vehicles and ground control station using antenna tracking systems " Sebastian Pop , Marius Cristian Luculescu, Luciana Cristea, Constantin Sorin Zamfira, Attila Laszlo Boer, , book: Online Engineering & Internet of Things, Springer publisher 2018, p. 532-539
15	" Alternative Solutions to Stimulate Aviation Student's Creativity in Academic Research " Cioaca Cătălin, Pop Sebastian , la Valencia, Spania, 5-7 Martie, INTED 2018 conference, ISBN: 978-84-697-9480-7, doi: 10.21125/inted.2018.1483

2019

16	" Consideration about UAV command and control. Ground Control Station " Prisacariu Vasile, Cătălin Cioacă, Doru Luculescu, Andrei Luchian, Sebastian Pop , , Journal of Physics: Conference Series, 5th International Scientific Conference SEA-CONF 2019, 1297(2019)/ 012007, doi:10.1088/1742-6596/1297/1/012007, IOP Publishing.
17	" Vegetation Index Estimation in Precision Farming Using Custom Multispectral Camera Mounted on Unmanned Aerial Vehicle Sebastian Pop ", Luciana Cristea, Marius Cristian Luculescu, Sorin Constantin Zamfira, Attila Laszlo Boer, , International Conference on Remote Engineering and Virtual Instrumentation 2019, p.674-685, Online ISBN978-3-030-23162-0,DOI https://doi.org/10.1007/978-3-030-23162-0_61 , Springer publisher.
18	" Utilizarea vehiculelor aeriene fără pilot pentru prelevarea de date meteorologice " Sebastian POP , Sorin CHEVAL, Vasile PRISACARIU, , Sesiunea științifică anuală ANM 2019, 19-21 nov.2019, București ISSN: 2285 – 7931, ISSN-L: 2285 – 7931

2020	
19	"Aerial mechatronic systems, for collection of atmospheric and environmental data" S. Pop, C. Ceocea, C. Cioacă, V. Prisacariu, M. Boşcoianu, V. Vlădăreanu, , ICRSS 2020, septembrie, Athena Grecia
20	"Development of a Testing Device for Measuring the Functional Parameters of UAV Recovery Systems", Zamfira Constantin Sorin , CRISTEA Luciana, Boer Laszlo Attila, Sebastian Pop , , 17 th International Conference on Remote Engineering and Virtual Instrumentation 2020, Springer publisher
2021	
21	"Near-surface Geological Context, Natural and Anthropogenic Features Revealed by Drone-borne Geophysics: Case Studies Near Danube Delta", R.G. Dimitriu , S. Pop , I.M. Stanciu , B.M. Barbu and V. Lungu , https://doi.org/10.3997/2214-4609.202149BGS82
22	"Considerations about construction of uav ground control stations", Vasile PRISACARIU, Mircea BOŞCOIANU, Cătălin CIOACĂ, POP Sebastian, Luige VLĂDĂREANU, Victor VLĂDĂREANU, Ana-Maria TRAVEDIU, Scientific Research & Education in the Air Force-AFASES
2022	
23	"Interpretation of flight data from a fixed-wing UAV system dedicated to flying over high voltage lines" Cristian VIDAN, Sebastian POP, , pp. 121-128, https://doi.org/10.13111/2066-8201.2022.14.2.10
24	"UASFlexible Configuration for Optimum Performance in ISTAR Military Mission", Cătălin Cioacă, Vasile Florin Popescu, Vasile Prisacariu, Sebastian Pop , Cristian Vidan published in <i>Studies in Informatics and Control</i> , Vol. 31(3), 2022 (https://sic.ici.ro/uas-flexible-configuration-for-optimum-performance-in-istar-military-missions/).
25	"Design and simulation of an Unmanned Aerial Vehicle based on a motor glider concept" S Pop, A Steopan, MC Luculescu, AL Boer, L Cristea, CS Zamfira IOP Conference Series: Materials Science and Engineering 1262 (1), 012036
26	"Distributed IoT System for Indoor Air Quality Monitoring" Marius Cristian Luculescu, Luciana Cristea, Constantin Sorin Zamfira, Attila Laszlo Boer, Sebastian Pop , International Conference on Remote Engineering and Virtual Instrumentation, pag 288-299, Springer International Publishing
27	"Monitoring System for Glider Flight Parameters", Sebastian Pop , Marius Cristian Luculescu, Luciana Cristea, Florentina Custura, Attila Laszlo Boer, Constantin Sorin Zamfira, International Conference on Remote Engineering and Virtual Instrumentation, Springer International Publishing pag 252-260
2023	
28	"Hybrid Mechatronic System for Measuring Aero-bathymetric Data" Sebastian Pop , Marius Cristian Luculescu, Luciana Cristea, Lucian Boariu, Attila Laszlo Boer, Constantin Sorin Zamfira, International Conference on Remote Engineering and Virtual Instrumentation, Springer Nature Switzerland pag 823-831
29	"Critical analysis of mini unmanned aerial vehicles (UAV) development capabilities and perspectives of effective integration in horticultural agroecosystems in Romania." Pompilica Iagăru, Mircea Boşcoianu, Ionel-Lucian Cioca, Ioana Mădălina Petre, Sebastian Pop , Flavius Aurelian Sârbu, Romulus Iagăru ; Scientific Papers Series Management, Economic Engineering in Agriculture & Rural Development Volume 23
B. PROIECTE DE CERCETARE ŞI BREVETE	
1	Proiect: Platformă Modulară Aeriană pentru monitorizare Atmosferică Inteligentă , acronim MAPIAM, PN-III-P2-2.1-PED-2016-1972, contract 65PED/2017, membru în proiect
2	Proiect: Îmbunătăţirea tehnologiei sistemului mecatronic multispectral în vederea creşterii performanţelor de captare a parametrilor vegetativi în contextul schimbărilor climatice – MultiCanSPEC, Proiect PN-III-P2-2.1-BG-2016-0132, Contract nr.65BG din 01.10.2016, membru în proiect
3	Cerere de brevet Dispozitiv electromecanic (sistem de lansare-largare) pentru proiectul MAPIAM 2018, Mircea Boscoianu. Cioacă Cătălin, Sebastian Pop, Vasile Prisacariu, Dumitru Grivei
4	Proiect: Integrated aerial system for intelligent monitoring and precision agricultural application for horticulture crops PN-III-P2-2.1-PED-2021-3678 - membru în proiect
5	Proiect: A hybrid Autonomus Unmanned Vehicle system opening new horizons in conducting military operation in the marine enviroment (PASITHEA) – contract de finanţare 101121412

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