

RAPORT

de activitate al Filialei Brasov ASTR pe anul 2018

1. Manifestari stiintifice

1.1. Organizate si sub egida ASTR prin Filiala Brasov;

- “Seminarul Internațional PC-CRASH” ediția VIII-a, 18-20 mai 2018, organizat la Universitatea “Transilvania din Brașov”, sub egida ASTR, cu colaborarea Universității Tehnice din Graz și a DSD Linz, Austria;
- “Seminarul Național PC-CRASH” ediția VIII-Brașov, 17-19 noiembrie 2018.
- A 7-a Conferința internațională COMAT 2018, Brașov, 25-26 octombrie, 2018. Organizator: Universitatea TRANSILVANIA și ASTR Filiala Brașov. Universitatea TRANSILVANIA și ASTR Filiala Brașov.
- Conferința internațională EMEH 2018, Ediția a 2-a. Brașov, 25-26 octombrie, 2018. Organizator: Universitatea TRANSILVANIA și ASTR Filiala Brașov.
- Organizarea Colocviului Creativitate, Inventică, Robotică de către AGIR Sucursala Brașov în colaborare cu SRR Filiala Brașov, ASTR Filiala Brașov și CRIFȘT Filiala Brașov - **Starețu, I.**(organizator principal), Brașov, ROMANIA, 25- 26 October 2018.
- Simpozionului SINGRO 2018, Brașov, sub egida AGIR, în perioada 6-8 septembrie 2018, **Starețu, I.** – membru al Comitetului de organizare din Brașov, din partea Sucursalei AGIR Brașov și Filialei ASTR Brașov, Brașov, ROMANIA, 25- 26 October 2018.
- The 7th International Conference on “Advanced Composite Materials Engineering” – COMAT 2018 , Brașov, ROMANIA, 25- 26 October 2018
- The 42th International Conference on “Mechanics of Solids, Acoustics and Vibrations” – ICMSAV 2018 , Brașov, ROMANIA, 25- 26 October 2018
- The 2nd International Conference “Experimental Mechanics in Engineering” – eMECH 2018, ISSN 2457 – 8541, ISSN-L 2457 - 8541
- Organizarea la Brasov in Institutul de Cercetare si Dezvoltare al Universitatii Transilvania, in data de 19 septembrie 2018, prin Centrul de

Cercetare stiintifica Sisteme de Energii Regenerabile si Reciclare (RESREC) si impreuna cu Agentia de Dezvoltare Regionala (ADR) Centru, sub egida Academiei de Stiinte Tehnice din Romania, a evenimentului “Politici si actiuni locale pentru stimularea inovarii in mediul construit si reducerea emisiilor de dioxid de carbon “la care au participat peste 60 de reprezentanti ai mediului academic, autoritatilor publice si companii din regiunea Centru. Dupa prezentarea tematicii, a realizarilor si preocuparilor in domeniu au fost organizate si discutii sub forma unor focus grupuri in aria tematica “Energie in mediul construit” din Strategia de Specializare Inteligenta. Cele doua focus grupuri au permis realizarea unui process de descoperire antreprenoriala, conform unei metodologii agreate de Joint Research Center al Comisiei Europene, cu scopul de a identifica provocari, probleme si idei de proiecte care ar putea obtine finantare prin POR 2014-2020 sau prin alte Programe Europene – **Visa I.**

2. Participari la manifestari stiintifice;

- Participare cu lucrare sustinuta la Conferinta ADEM 2018, Drobeta Turnu Severin - Adriana Zara, Maria Stoicanescu, **Ioan Giacomelli**: Using electron beam to the surface heat treatment of the carbon steels
- Participarea la a 3-a Conferinta Internationala “Smart Energy Systems in Cities and Regions” la Dublin Institute of Technology (DIT) ,Irlanda, 09-12 April 2018, cu lucrarea: “Up-grading the building envelope using faade integrated solar thermal collectors”(Authors: Macedon Moldovan, **Ion Visa**, Anca Duta)
- Participare si Plenary Speaker la a 4-a Conferinta Internationala SEA-CONF 2018, Academia Mircea cel Batran , Constanta, cu plenara “Comparative analysis of solar thermal systems implemented in the built environment and on ships” - **Ion Visa** .
- Participare la a 3-a”South Est Conference on Sustainable Development of Energy, Water and Environment Systems, SDEWES, Novi Sad, Serbia, 30th June-4 July, 2018 cu lucrarile: “Experimental Performance assessment of Vertically installed Solar Thermal collectors” (authors **Visa, I.**,

Duta,A.,Moldovan,M.,Neagoe, M.) and “Experimental Comparison of Flat Plate and Evacuated Tube Solar Thermal Collectors for domestic hot water preparation in Education facilities” (authors Moldovan,M.,Visa,I., Burduhos,B.)

- Participare la Conferinta Internationala “Sustainable Solutions for Energy and Environment” EENVIRO, Cluj-Napoca, 2018 , cu lucrarea “ Development of an indoor testing rig for façade integrated solar thermal collectors”(authors Maldovan,M., **Visa,I.**)
- Participare la Conferinta Internationala Zilele Academiei de Stiinte Tehnice din Romania (ZASTR) –Editia a 13-a “ Energie si mediu – provocari majore ale secolului XXI” Universitate de Petrol si Gaze din Ploiesti, 18 – 19 octombrie 2018. Implicare in Sectiunea II – Conversia, stocarea si utilizarea energiei , ca moderator si prezentarea lucrarii “ The role of Solar Energy in the future Energy Scenario “, lucrare trimisa apoi la jurnalul JESI al ASTR - **Ion Visa.**
- Participare in Panel la Conferinta Internationala”Market Uptake of Renewable Energies for Heating and cooling”- First International Conference of the EU 2020 Projects BioVill and CoolHeating, Manos Conference Center, Brussels, 27-29 November 2018 **Visa I..**
- Participare la meetingul“Preliminary Selection of Calles for projects proposal for 2019” organizat de ESEIA (European Sustainable Energy Innovation Alliance), Brussels, 13-14 November, avan ca scop identificarea de proiecte pentru 2019, tematici si parteneriate - **Ion Visa.**
- Participare la Workshop regional “Fit –to-nZEB, Scheme de instruire innovative pentru renovarea cladirilor la nivel de nZEB “ organizat de Clusterul Pro nZEB la Camera de Comert din Brasov,20 iunie 2018, unde am prezentat tematica “Dezvoltarea mediului construit sustenabil si eficient energetic la Centrul de Cercetare RESREC “ - **Ion Visa .**
- Participare la Workshop international organizat la Universitatea de Vest din Timisoara , 11 mai 2018, pe domeniul “Integrarea centralelor PV in retea electrica”, in cadrul caruia am prezentat lucrarea “ Experimental assessment of the Mellis simulation model accuracy of the direct solar irradiance in Brasov”- **Ion Visa.**

- Munteanu,F., Ursutiu,D., **Samoila,C.**, -“Affective education and new technologies” – Conferinta internationala de Meloterapie ed.IV-a, Brasov, 2018;
- Munteanu, F., Ursutiu,D., **Samoila,C.** ; ”From the golden numbers to fractal geometry;implications in melotherapy” Conferinta international de Meloterapie ed.IV-a, Brasov, 2018;
- Sabau,M.,Ursutiu,D.,**Samoila,C.** “High School–University Collaborative Working in Melotherapy” Conferinta ICL-2018 Tessaloniky University – Patras Grece-in Kos Island
- Ursutiu,D., **Samoila,C.**, Neagu,C.A., Florea, A., Chiricioiu, A., ““Software Reconfigurable Hardware inIoT student training” Conferinta ICL-2018 Tessaloniky University –Patras Grece-in Kos Island;

3. Participari la contracte de cercetari stiintifice

a. Granturi cu finantare europeana/nationala

- Camera de interactie cu sistem de aliniere integrat fata de un fascicul Gamma/ELICAM-GAMMA. Contract 16/2016 cu CNCSIS **Vlase S.**
- Contract 58 PED-PN III P2-2.1-PED 2016-0338 , valoare 600.000 lei “ Solar thermal laboratory demonstrator and technology based on arrays of triangle flate plate collectors (SOL_TRI_COL) – contract national, UEFISCDI - **I.Visa.**
- Contract Proiect H2020-LCE-2014-2, No.656760 coordonat de ESEIA si intitulat “Bio Energy Train “ (BET – 180.000 EURO pentru partenerul-Universitatea Transilvania din Brasov, responsabil **I.Visa**), proiect European.
- Grant national PCCDI nr.47/2018 –“ Noi directii de dezvoltare tehnologica si de utilizare a materialelor nanocompozite avansate” Proiectul 2-“Nanocompozite oxidice functionalizate pentru aplicatii de senzori” – Responsabil de Proiect - **Samoila,C.**

Membri in colectivele de cercetare

- În anul 2017 s-a demarat acțiunea de dezvoltare, continuată și în anul 2018 a unui centru regional pentru Europa de Est pe tematica mobilității urbane (Collocation Centre, CLC), coordonat de Agentia Metropolitana Brasov si având Universitatea Transilvania din Brașov ca partener, prin colectivele de cercetare din facultatile de Inginerie Mecanică (Chiru Anghel, Țârulescu Ștefan, Benea Bogdan, Ioan Calin Roșca, Radu Gh-Alexandru) și Facultatea de Design de Prods și Mediu (**Vișa Ion**, Anca Duță, Moldovan Macedon, Burduhos Bogdan).
- Contract 124 PN III –P2-2.1- PED-2016-0514 , “ Continuous flow laboratory technology based on photocatalysis and adsorption for simultaneous removal of toxic organic pollutants and heavy metals “ Photocat flow, 600.000 lei, coordonator Prof.dr.ing. Anca Duta, proiect national UEFISCDI - **Vișa Ion** .
- Proiect BRIDGE GRANT PN III P2-2.1-BG-2016-0349, 600.000 lei, ”Cresterea competitivitatii SC ELDON SRL prin optimizarea tehnologiei de fabricatie a dulapurilor industrial de podea”, coordonator Prof.dr.ing. Mircea Neagoe, proiect national UEFISCDI- **Vișa Ion** .

b. Contracte cu terti

- “**Lucrări de simulare a procesului de injecție a combustibilului** ”. Contract 18169-2016. Beneficiar: Ecomotors Detroit, S.U.A. (membru în echipă prof. dr.ing. **RADU Gheorghe-Alexandru**)

4. Articole publicate in reviste

- The Influence of the Addition of Alcohols in Biofuels on the Ecological Behavior of Diesel Engines. AFCO 2018. (coautor prof. dr. ing. **Radu Gh-Alexandru**)
- The Influence of Phisico-Chemical Properties of Diesel-biodiesel and alcohol mixtures on the engine Performances. Conferința “CHIMIA 2018”, Constanța. Publicată în “Ovidius University Annals of Chemistry”. (coautor prof. dr. ing. **Radu Gh-Alexandru**)

- Phisico-Chemical and exploitation Properties of biodiesel type non conventional Fuels. În Buletinul Universității Tehnice “Gheorghe Asachi” Iași, vol.68, nr,1, 2018. (coautor prof. dr. ing. **Radu Gh-Alexandru**)
- **Staretu, I.** , Moldovean, C., Bending sensors used to command a virtual anthropomorphic griper for robots. Acta Electrontehnica, vol. 60, nr. 1-2, 2018, Special Issue Proceedings of the XXVIIIth SISOM 2017. Media Science Publisher, 2018, pp. 157-162(indexed in Google Scholar).
- Moldovan, C. C., **Staretu, I.**, Capturing human hand movements with a webcam to control an anthropomorphic gripper. Procedia Manufacturing, Vol. 22(2018), pp. 519-526.
- **Staretu, I.**, Classification of industrial robots according to the number of degrees of mobility-structural synthesis and useful configurations. Proceedings of the International Conference PRASIC 2018, Brasov, Romania(paper during publishing).
- **Staretu, I.**, Moldovan, C. Senzori de îndoire utilizați la comanda unui prehensor antropomorf virtual. Buletinul AGIR, nr. 2/2018, pp. 20-24.
- Marin, M.; Oechsner, A.; **Vlase, S.**, Minimum Principle for a Composite Modeled as Two Interacting Dipolar Continua. Mechanics Of Composite Materials Volume: 54 Issue: 4 Pages: 523-536 Published: SEP 2018
- Marin, Marin; **Vlase, Sorin**; Carstea, Claudia, A dipolar structure in the heat-flux dependent thermoelasticity. AIP ADVANCES Volume: 8 Issue: 3 Article Number: 035220 Published: MAR 2018
- Turzo, Gabor; Szava, Ildiko Renata; Galfi, Botond-Pal; et al., Temperature distribution of the straight bar, fixed into a heated plane surface. Fire And Materials Volume: 42 Issue: 2 Pages: 202-212 Published: MAR 2018
- **Vlase, Sorin**; Itu, Calin; Vasile, Ovidiu; et al., Vibration Analysis of a Mechanical System Composed of Two Identical Parts. Romanian Journal Of Acoustics And Vibration Volume: 15 Issue: 1 Pages: 58-63 Published: 2018

5. Articole publicate in ISI Proceedings

- **Samoila, C.**, Ursutiu, D., Neagu, C.A. – “Evaluating Remote Experiment from divergent thinking point of view” Proceedings of REV-2018-“Smart Industry & Smart Education” pp 217-225, ISBN – 978-3-319-95677-0, ISBN 978-3-319-95678-7 (eBook), <https://doi.org/10.1007/978-3-319-95678-7>, Springer;

6. Articole clasificate ISI

- Ioan Milosan , Gilles Flamant , Ionelia Voiculescu, Victor Geanta , Daniel Munteanu , Tibor Bedo , Mihai Alin Pop , Augustin Semenescu , Aurel Crisan , Daniel Cristea , **Ioan Giacomelli** , Maria Stoicanescu, Camelia Gabor , Flavius Aurelian Sarbu , Ioana Ghiuta- Comparative Study of Heat Treatment Effects Performed with Solar Energy and Electric Furnace on EN 1.4848 Stainless Steel Alloyed with Co, W, Cu and Mo – Revista de Chimie, Mai, 2018, IF=1,412
- Marin, M.; Oechsner, A.; **Vlase, S.**, Minimum Principle for a Composite Modeled as Two Interacting Dipolar Continua. Mechanics Of Composite Materials Volume: 54 Issue: 4 Pages: 523-536 Published: SEP 2018
- Marin, Marin; **Vlase, Sorin**; Carstea, Claudia, A dipolar structure in the heat-flux dependent thermoelasticity. Aip Advances Volume: 8 Issue: 3 Article Number: 035220 Published: MAR 2018
- Turzo, Gabor; Szava, Ildiko Renata; Galfi, Botond-Pal; et al., Temperature distribution of the straight bar, fixed into a heated plane surface. Fire And Materials Volume: 42 Issue: 2 Pages: 202-212 Published: MAR 2018
- **Vlase, Sorin**; Itu, Calin; Vasile, Ovidiu; et al., Vibration Analysis of a Mechanical System Composed of Two Identical Parts. Romanian Journal Of Acoustics And Vibration Volume: 15 Issue: 1 Pages: 58-63 Published: 2018
- **Visa,I.**, Duta,A., Moldovan,M. Outdoor performance of a trapeze solar thermal collector for façade integration. Journal Renewable Energy (available from 01 Febr. 2018), <https://doi.org/10.1016/j.renene.2018.01.101>,ISSN 0960-1481, Impact Factor 4,9.
- Burduhos, B., **Visa ,I.**, Duta, A., Neagoe, M. Analysis of the Conversion Efficiency of Five Types of Photovoltaic Modules During High Relative Humidity Time Periods. IEEE Journal of Photovoltaics 99, 1-9, 2018, Impact Factor 3,712.
- **Visa ,I.**, Neagoe , M., Moldovan ,M., Comsit ,M. Solar tracking parallel linkage applicable for all latitudes. Mechanisms and Machine Science, Springer, 57, 3-11, 2018, DOI: 10.1007/978-3-319-79111-1_1, ISSN:22110984CL

- **Samoilă, C.**, Ursuțiu,D., Jinga, V.- “Evaluation software for effects produced by MOOC in mediums with different linguistically levels” Digital Scholarship in the Humanities Volume 33 Issue 4 , ISSN 2055- 768X (Online) 2055-7671 (Print) <https://doi.org/10.1093/llc/fqy029>, IF=0,589
- Ursutiu,D., Neagu,A., **Samoila,C.** –“LabSocket-E, LabVIEW and my-RIO in Real Time/Embedded system student teaching and training” ” Proceedings of REV-2018-“Smart Industry & Smart Education”pp.721-727, ISBN – 978-3-319-95677-0, ISBN 978-3-319-95678-7 (eBook), <https://doi.org/10.1007/978-3-319-95678-7>, Springer;

7. Articole publicate in Baze de date indexabile BDI

- Comici Valeriu; Zara Adriana; **Giacomelli Ioan**; Stoicanescu Maria - Comparative study on the efficiency of the surface heat treatment with concentrated energy sources, Scientific Research & Education in the Air Force - AFASES . May2018, p147-150
- Comici, Valeriu; **Giacomelli, Ioan**; Stoicanescu, Maria; Zara, Adriana, Considerations on heat treatments of martensitic stainless steels, Scientific Research & Education in the Air Force - AFASES . May2018, p143-146.
- **Ioan Giacomelli**, Maria Stoicănescu, The Influence of Low Temperatures on the Mechanical Characteristics of Aluminium Alloys, Revista Recent Vol. 19 (2018), No. 1 (54), 2018, ISSN 1582-0246
- Marin, M., Öchsner, A., **Vlase, S.** , Minimum Principle for a Composite Modeled as Two Interacting Dipolar Continua, Mechanics of Composite Materials, 54(4), pp. 523-536, 2018
- Marin, M., **Vlase, S.**, Carstea, C., A dipolar structure in the heat-flux dependent thermoelasticity Open Access, AIP Advances, 8(3),035220, 2018
- Turzó, G., Száva, I.R., Gálfi, B.-P., (...), **Vlase, S.**, Hoța, H., Temperature distribution of the straight bar, fixed into a heated plane surface, Fire and Materials, 42(2), pp. 202-212, 2018
- Teodorescu-Draghicescu, H., Scarlatescu, D., **Vlase, S.**, Scutaru, M.L., Nastac, C., Advanced high-density polyethylene used in pipelines networks, Open Access, Procedia Manufacturing, 22, pp. 27-34, 2018
- Itu, C., Öchsner, A., **Vlase, S.**, Marin, M.I., Improved rigidity of composite circular plates through radial ribs, Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications, 2018

- **Vlase, S.**, Borza, P.N., Baritz, M.I., (...), Ghitescu, M., Modrea, A., Optical analysis of the reaction chamber for the ELIADE array, Open Access, Article in Press, Procedia Manufacturing, 22, pp. 215-220, 2018,
- Itu, C., **Vlase, S.**, Scutaru, M.L., (...), Borza, P.N., Mihalcica, M., Universal absorber applied to NVH in EV's powertrain, Springer Proceedings in Physics, 198, pp. 361-366, 2018
- **Vlase, S.**, Itu, C., Vasile, O., (...), Stanciu, M.D., Scutaru, M.L., Vibration analysis of a mechanical system composed of two identical parts, Romanian Journal of Acoustics and Vibration, 15(1), pp. 58-63, 2018
- **Vlase, S.**, Borza, P.N., Suliman, G., (...), Ghitescu, M., Nastac, C., Dynamic analysis of the reaction chamber for the ELIADE array, Springer Proceedings in Physics, 198, pp. 263-269, 2018
- CLMoldovan, R Paltanea, **I Visa**, Experimental Assessment of the Meliss Simulation Model Accuracy of the Direct Solar Irradiance in Brasov, Romania, Annals of West University of Timisoara-Physics 60 (1), 24-37, 2018

8. Recunoastere internationala si nationala

- În anul 2018, profesorului **RADU Gheorghe –Alexandru** i s-a decernat titlul de Doctor Honoris Causa al Universității Tehnice „Gheorghe Asachi” din Iași.

8.1. Citari in reviste indexate ISI

- Li, B., Zhang, C., Han, C., Bai, B., Gesture Recognition Based on Kinect v2 and Leap Motion Dta Fusion, International Journal of Pattern Recognition and Artificial Intelligence, 11 sept. 2018(citare: **Staretu, I.**, Moldovan, C., Leap motion device used to control a real anthropomorphic gripper, IJARS June, 2016). IJPRAI impact factor 1,029 in 2017.
- “The Methods To Determine The Series Resistance And The Ideality Of The Diode For Solar Cells Review” - Cotfas,D.T., Cotfas, P., Ursutiu, D., **Samoila, C.**, OPTIM-Conference-Brasov 24-26 may 2012- IEEE-978-1-4673-1653-8/12/3100;

Citata In:

"Experimental Determination of Power Losses and Heat Generation in Solar Cells for Photovoltaic-Thermal Applications" Journal of Materials

Engineering and Performance ISSN: 1059-9495 (Print) 1544-1024 (Online)
Lorenzi, B., Acciarri, M. & Narducci, D. J. of Materi Eng and Perform
(2018). <https://doi.org/10.1007/s11665-018-3604-3> Springer US Volumes
27 August 2018, Issue 8, Pages 3791-4371 IF= 1.34

- “Materials Processing Using Solar Energy” Vizureanu ,P., **Samoilă, C.**,
Cotfas, D., Revista: “Environmental Engineering and Management
Journal”, March/April 2009, Vol.8, No.2, 301-306, ISSN-1582-9506;
Citata In:

"The Influence of the Temperature Regime on the Mechanical Properties of
the Thick Steel Sheets from Carbon and Low alloy Steels, Laminated to
Thicknesses More than 40 mm" Revista De Chimie Volume: 69 Issue: 3
Pages: 632-635 2018, Accession Number: WOS:000430946500021 ISSN:
0034-7752 IF=1,412

- WIRELESS SYSTEM FOR MONITORING THE SOLAR RADIATION”
Cotfas,D.,Cotfas,P.,Borza,P., Ursutiu,D., **Samoila,C.**,-Rev.Environmental
Engineering and Management Journal-Aug.2011, Vol.10, No.8 –pp.1133 –
1137, ISSN-1582-9596;WOS: 000296758300020;
Citata In:

"Greenhouse Environment Monitoring And Control: State Of The Art And
Current Trends" Gurban, Eh ; Andreescu, Gd Environmental Engineering
And Management Journal Volume: 17 Issue: 2, Pages: 399-416 ,
ISSN:1582-9596. Accession Number: WOS:000427084800016 2018 , IF=
1.096;

- “Monthly Average Daily Global And Diffuse Solar Radiation Based On
Sunshine Duration And Clearness **Samoila,C.**, s.a. Index For Brasov,
Romania” Revista Journal of Renewable and Sustainable Energy 6, 053106
(2014); E-ISSN: 1941-7012, DOI: 10.1063/1.4896596, AIP Publishing-
2014, pp. 053106-1 -053106-16, WOS:000344590600006
Citata In:

"A Spatiotemporal Universal Model For The Prediction Of The Global Solar
Radiation Based On Fourier Series And The Site Altitude" Renewable
Energy 3 April 2018, In Press,— ISSN: 0960-1481
<https://doi.org/10.1016/j.renene.2018.04.005> IF= 4.375 ;

- “Fast Computation Algorithm For Speckle Pattern Simulation” **Samoila,C.**,
s.a., 12th TIM Physics Conference of the West-University of Timisoara- 27-
30 Nov.2012, Books series title AIP Conference Proceedings, Vol.1564,
ISSN-0094-243X, ISBN-978-0-7354-1192-0, Access Number:
WOS:000327454500034, pp 217-222;
Citata In:

"Scalar-based speckle simulation model from the angular surface scattering based on generalized Harvey-Shack theory for laser displays" Lee, JY ; Jeon, S ; Jang, SH ; Park, NC ; Kim, YJ in DISPLAYS Volume: 51 Pages: 30-35 2018 Volume: 51 Pages: 30-35 DOI: 10.1016/j.displa.2017.10.003 2018 Accession Number: WOS:000427309800004 ISSN: 0141-9382 eISSN: 1872-7387 IF= 1.526 ;

- Cotfas, D.T., Cotfas, P., Ursutiu, D., Samoila, C., "The Methods To Determine The Series Resistance And The Ideality Of The Diode For Solar Cells Review" OPTIM-Conference-Brasov 24-26 may2012- IEEE-978-1-4673-1653-8/12/3100;DOI: 10.1109/OPTIM.2012.6231814 WOS:000398866700145 ISSN: 1842-0133

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"Study of Temperature Coefficients for Parameters of Photovoltaic Cells" International Journal of Photoenergy Volume 2018 (2018), Article ID 5945602, 12 pages <https://doi.org/10.1155/2018/5945602> ISSN: 1110-662X (Print) ISSN: 1687-529X (Online) DOI: 10.1155/3837 Accession Number: WOS:000430439500001, IF= 1.227;

- V. Jinga, A.O. Mateescu, D. Cristea, G. Mateescu, I. Burducea, C. Ionescu, L.S. Crăciun, I. Ghiuță, C. Samoilă, D. Ursuțiu, D. Munteanu, Compositional, Morphological And Mechanic Investigations Of Monolayer Type Coating Obtained By Stabdarsand Reactive Megnetron Sputtering From Ti, TiB2 and WC. Appl. Surf. Sci. 358, 579–585 (2015);

Citata In:

-Scratch and wear behavior of metallised Ti thin films deposited on Al2O3 substrate" Applied Physics A (2018) 124:718 <https://doi.org/10.1007/s00339-018-2137-9>, Springer-Verlag GmbH Germany, part of Springer Nature 2018 ISSN:0947-8396 eISSN: 1432-0630 Accession Number: WOS:000445855400001 IF= 1.604;

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DOI: 10.1016/j.tsf.2018.03.002 2018, ISSN: 0040-6090 Accession Number: WOS:000441177500124 IF=1,939

- **Vlase S.** - 55 citari in SCOPUS in 2018

8.2. Citari in reviste indexate BDI

- Fazeli, H.R., Venkatesh, S.K., Peng, Q., A virtual Environment for Hand Motion Analysis, Procidia CIRP, Vol. 78, 2018, pp. 127-132(citare: [24])

- Staretu I, Moldovan C. Leap Motion Device Used to Control a Real Anthropomorphic Gripper. *Int J Adv Robot Syst* 2016; 13(3):113).
- Miclosina, C-O., Gogoneata, M-A., Korca, Z-I., Cojocar, V., Simulation of a Pneumatically Driven Robotic Gripper Used for Handling Cylindrical Workpieces. In *Analale Universității Efrimie Murgu din Reșița, anul XXV, nr. 1, 2018, pp. 35-42*(citare: [11] Staretu I., Structural Synthesis, Analysis and Design of the Modular Anthropomorphic Grippers for Industrial Robots. 3rd International Conference “Research & Innovation in Engineering”, COMAT 2014, 16-17 October 2014, Brasov, Romania, 86-91).
 - Aditya, K., Chako, P., Kumari, D., e.a., Recent Trends in HCI: A survey on Dta Glove, LEAP Motion and Micosoft Kinect, *Proceedings of the 2018 IEEE International Conference on System, Computation, Automation and Networking (ICSCA), 6-7 July 2018, India, Published by IEEE Xplore* (citare: [11] C.C. Moldoven , and I. Staretu ”An Anthropomorphic Hand with Five Fingers Controlled by a Motion Leap Device,” *Procedia Engineering*, vol. 181, pp. 575-582).
 - Basova Y, Nutsubidze K, Ivanova M, Slipchenko S, Kotliar A., Design and numerical simulation of the new design of the gripper for manipulating of the rotational parts , in *DIAGNOSTYKA, Vol. 19, No. 4 (2018), Poland*(citare: 9. Staretu I. *Gripping Systems*. Derc Publishing House: Tewksbury. MA, USA 2011).
 - “Distributed Virtual And Remote Labs In Engineering”-Auer,M., Pester,A., Ursutiu,D., Samoila,C., - in *IEEE International Conference on Industrial Technology, vol.1 si 2, 10-12 Dec. 2003 Maribor-Slovenia Book Title:IEEE, ISBN 0-7803-7852-0 Access, Number: WOS. 000221383100226; pp1208-1213;*

Citata In:

- “The Relationship Between Efl Learners'attitude, Self–Efficacy And Their Writing Achievement” *European Journal of Foreign Language Teaching (ISSN 2537-1754) Volume 3, Issue 1, 2018;*
- “Role of Wi-Fi Data Loggers in Remote Labs Ecosystem” *Lecture Notes in Networks and Systems book series (LNNS, volume 22) Springer International Publishing AG 2018 Online ISBN 978-3-319-64352-6 DOI https://doi.org/10.1007/978-3-319-64352-6_22 Proceedings of the 14th International Conference on Remote Engineering and Virtual Instrumentation REV 2017, held 15-17 March 2017, Columbia University, New York, USA Editors: Auer, Michael E., Zutin, Danilo G. (Eds.)*
- “Deploying Large-Scale Online Labs with Smart Devices” In: Auer M., Azad A., Edwards A., de Jong T. (eds) *Cyber-Physical Laboratories in*

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- “Using Remote Laboratories In Education. Two little ducks in remote experimentation”, Editors Zubia,J.J, Alves,G.R. – Chapter 6: “Multifunctional Lab. Based On Agilent Usb Technologies” Samoila,C., Ursutiu,D., Cotfas,P.,- - ISBN 978-84-9830-335-3-pp.135 -157;

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"Online Course On Cyberphysical Systems With Remote Access To Robotic Devices" in Online Engineering & Internet of Things pp 408-415 DOI https://doi.org/10.1007/978-3-319-64352-6_38 Springer, Cham Print ISBN 978-3-319-64351-9 Online ISBN 978-3-319-64352-6 2018,

- “NI ELVIS COMPUTER BASED INSTRUMENTATION”- Cotfas,P., Cotfas,D.T., Ursutiu,D., Samoila,C., - Publisher:National Technology & Science Press1 English- , ISBN-10: 1934891118, ISBN-13: 9781934891117-2013;

Citata In:

"The Advantages Of Using Virtual Learning Environments For Study Biomedical Instrumentation Basic Circuits" The International Scientific Conference eLearning and Software for Education; Bucharest Vol. 3, : 365-368."Carol I" National Defence University. (2018) DOI <http://dx.doi.org/10.12753/2066-026X-18-196> ProQuest document ID 2038220015;

- **Vlase S.** - 15 citari BDI

8.3. Citari in lucrari publicate in proceedings-uri ale conferintelor internationale

8.4. Carti publicate

- **Starețu. I.**, Managementul inovării-accente necesare, Editorial în Buletinul AGIR nr.2 din 2018, pp.1-5.
- **S. Vlase** et al, Eigenvalues and Eigenvectors Problems in Applied Mechanics. Springer Verlag, 2018.

a. Capitole in monografii internationale

- **Vlase, S.**, Marin, M., Öchsner, A., Modal analysis, Advanced Structured Materials 96, pp. 167-237,2019

- **Vlase, S.,** Marin, M., Öchsner, A., Dynamical systems, Advanced Structured Materials 96, pp. 239-256,2019
- **Vlase, S.,** Marin, M., Öchsner, A. ,Vectors, Advanced Structured Materials 96, pp. 1-42, 2019
- **Vlase, S.,** Marin, M., Öchsner, A., Strain and stress, Advanced Structured Materials, 96, pp. 141-166, 2019
- **Vlase, S.,** Marin, M., Öchsner, A. , Rigid body mechanics, Advanced Structured Materials, 96, pp. 87-139, 2019
- **Vlase, S.,** Marin, M., Öchsner, A., Quadratic forms, Advanced Structured Materials, 96, pp. 63-85, 2019
- **Vlase, S.,** Marin, M., Öchsner, A., Matrices, Advanced Structured Materials 96, pp. 43-61, 2019

8.5. Premii, promovari

- **Starețu, I. ,** Diploma și Medalia AGIR, conferite cu ocazia centenarului AGIR(16 noiembrie 2018).
- Membru titular al Academiei de Stiinte Tehnice din Romania (ASTR)- **Vișa Ion**
- Membru al Comisiei de Energie Regenerabila (CER) a Sectiei de Stiinte Tehnice a Academiei Romane- **Vișa Ion**
- Vicepresedinte al Asociatiei Europene “ European Sustainable Energy Innovation Alliance (ESEIA) “ , reales anul acesta pentru urmatorii 3 ani -. **Vișa Ion**
- Coordonator al Comitetului Tehnic “ Sustainable Energy Systems” din Federatia Mondiala de Stiinta Mecanismelor si a Masinilor (IFToMM)”- **Vișa Ion**

9. Reprezentanti in Comitete stiintifice ale Congreselor international

- Membru al HONORARY COMMITTEE al The 8th Conference on Advanced Concepts in Mechanical Engineering ACME 2018, Iași, România, **Radu G.**
- International Conference New Technologies and Products in Machines Manufacturing Technologies TEHNOMUS 2018, Suceava, Romania(member in International Scientific Committee) – **Starețu I.;**
- The Annual Symposium of the Institute of Solid Mechanics - SISOM 2018 , Romanian Academy, Bucharest, Romania(member in Organizing Committee) – **Starețu I.;**

- Inter Eng International Conferenece 2018,Tg. Mureș, Romania(member in Scientific Committee) – **Staretu I.;**
- PRASIC International Conference 2018, Brasov, Romania(member in Scientific Committee) – **Staretu I.;**
- Membru in International Advisory Board REV-2018- Conference- University Of Applied Sciences -Duesseldorf –Germany **Samoila,C.**
- Membru in International Program Committee ICL-2018 Conference—Kos Island- Tassaloniky Univ.Grece **Samoila,C.**
- Membru in International Advisory Board IEEE EDUCON -2018-Conference Canary Island-UNED University -Spain **Samoila,C.**

9.1. Membru Comitete editoriale reviste:

- The Annals of Dunarea de Jos University of Galati, Fascicle XIV, Mechanical Engineering (B+ journal) – **Staretu I.;**
- TEHNOMUS – New Technologies and Products in Machine Manufacturing Technologies (Stefan cel Mare University journal, Suceava, Romania) – **Staretu I.;**
- Robotica & Management International Journal(Romania) – **Staretu I.;**
- Buletinul AGIR(Romania-B+) – **Staretu I.;**
- Journal of Mechanics Engineering and Automation, USA – **Staretu I.;**
- Military Technical Courier -Scientific periodical of the Ministry of Defence of the Republic of Serbia – **Staretu I.;**
- International Journal of Engineering and Robot Technology, India – **Staretu I.;**
- Robotics & Automation Engineering Journal, USA – **Staretu I.;**
- Metalurgia International-revista ISI pana in 2013, BDI actualmente **Samoila,C;**
- iJIM (International Journal of Interactive Mobile Technologies) **Samoila,C.,**

10. Alte activitati

- Prezentarea la Universitatea Tehnică „Gheorghe Asachi” din Iași, Facultatea de Mecanică, în luna noiembrie 2018, a Conferinței „Repere ale evoluției și dezvoltării motoarelor cu aprindere prin scânteie ca elemente de propulsie a autovehiculelor, în ultimele patru decenii”. (Prof. **Radu Gh-Al.**)

- **Starețu, I.**, Organizarea participării AGIR la Expoziția Demo Metal 2018 de la Brașov, din perioada 26-29.11.2018.
- Membru in comisii de analiza si sustinere teze de doctorat. **Toti membrii filialei**

10.1. Indrumare doctoranzi

- teze finalizate
- doctoranzi in stagiu
- Postdoc

10.2. Membru in comisii de analiza si sustinere teze de doctorat

- Participare la 4 comisii sustinere doctorat (Resita, Cluj-Napoca, Bucuresti)

10.3. Brevete eliberate in 2018.

- Ro 127678/30.10.2018 “Metoda de reglare a orientarii unui colector solar termic plan” **Vișa Ion**
- Ro 126234/ 28.09.2018 “Dispozitiv pentru determinarea proprietatilor opto-electrice ale materialelor” **Vișa Ion**
- Ro 126149/ 28.09.2018 “ Mecanism de orientare articulată” **Vișa Ion**
- Ro 128656/ 28.09.2018 “ Transmisie armonica dintata dubla cu generator de unde defazat cu $\pi/2$ ” **Vișa Ion**

10.4. Brevete propuse in 2018

- Nr inregistrare OSIM A/00208/21.03.2018 “ Captator solar termic plan plat triunghiular” **Vișa Ion**
- Nr inregistrare OSIM A/ 0080/ 09.02.2018 “ Mecanism articulată bimobil de tip paralel pentru orientarea convertoarelor solare la orice latitudine” **Vișa Ion**

Intocmit,

Conducerea Filialei Brasov