



Curriculum vitae Europass

Informații personale

Nume / Prenume **MARIN Florin Bogdan**

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Naționalitate(-tăți) română

Experiența profesională

Perioada **februarie 2016 - în prezent**

Funcția sau postul ocupat **Șef de lucrări / Cadru didactic titular**

Activități și responsabilități principale Activitate didactică și de cercetare

Numele și adresa angajatorului **Departamentul de Ingineria Materialelor și a Mediului**, Facultatea de Inginerie, Universitatea „Dunărea de Jos” din Galați, Str. Domnească nr. 47, Galați. Telefon: 0236-46.03.28, 0236-41.41.12, Fax: 0236-46.13.53

Tipul activității sau sectorul de activitate Educație universitară

Perioada **octombrie 2011 – februarie 2016**

Funcția sau postul ocupat **Asistent universitar/ Cadru didactic titular**

Activități și responsabilități principale Activitate didactică și de cercetare

Numele și adresa angajatorului **Departamentul de Ingineria Materialelor și a Mediului**, Facultatea de Inginerie, Universitatea „Dunărea de Jos” din Galați, Str. Domnească nr. 47, Galați. Telefon: 0236-46.03.28, 0236-41.41.12, Fax: 0236-46.13.53

Tipul activității sau sectorul de activitate Educație universitară

Educație și formare

Perioada **octombrie 2005 - martie 2009**

Calificarea / diploma obținută **Titlul științific de doctor / Diploma de doctor**

Numele și tipul instituției de învățământ / furnizorului de formare Facultatea de Mecanica, Universitatea „Dunărea de Jos” din Galați, Str. Domnească nr. 47, Galați. Telefon: 0236-46.03.28, 0236-41.41.12, Fax: 0236-46.13.53,

Nivelul în clasificarea națională sau internațională Studii doctorale, 3 ani

Perioada **octombrie 2005 - iunie 2007**

Calificarea / diploma obținută **Diploma de masterat**, durata studiilor: 3 semestre.

Numele și tipul instituției de învățământ / furnizorului de formare Facultatea de Mecanică, Universitatea „Dunărea de Jos” din Galați, Str. Domnească nr. 47, Galați. Telefon: 0236-46.03.28, 0236-41.41.12, Fax: 0236-46.13.53,

Nivelul în clasificarea națională sau internațională Studii postuniversitare - masterat

Perioada **octombrie 2000 - iunie 2005**

Calificarea / diploma obținută **Inginer diplomat / Diplomă de inginer**, durata studiilor: 5 ani.

Numele și tipul instituției de învățământ / furnizorului de formare / Facultatea de Mecanică,
Universitatea „Dunărea de Jos” din Galați,
Str. Domnească nr. 47, Galați. Telefon: 0236-46.03.28, 0236-41.41.12, Fax: 0236-46.13.53,

Specializări si calificări

Aptitudini și competențe personale

Limba(i) străină(e) cunoscută(e)

Autoevaluare

Nivel european (*)

Limba
Engleză

Limba
Franceză

Limba
Germană

Înțelegere				Vorbire				Scriere	
Ascultare		Citire		Participare la conversație		Discurs oral		Exprimare scrisă	
C1	Utilizator experimentat	C1	Utilizator experimentat	C1	Utilizator experimentat	C1	Utilizator experimentat	C1	Utilizator experimentat
B2	Utilizator independent	B2	Utilizator independent	B2	Utilizator independent	B2	Utilizator independent	B2	Utilizator independent
A2	Utilizator elementar	A2	Utilizator elementar	A2	Utilizator elementar	A2	Utilizator elementar	A2	Utilizator elementar

(*) [Nivelul Cadrului European Comun de Referință Pentru Limbi Străine](#)

Competențe și abilități sociale

Competențe și aptitudini organizatorice

Capacitatea de a comunica, de a lucra în echipă

Eficiență în activități organizatorice și de management academic.

Activitate de evaluare și expertiză.

Competențe și aptitudini de utilizare a calculatorului

- Limbaje de programare :C/C++, C#, Java , Assembler, Lite-C (3d Game Studio)
- IDE: Visual C 2005, Visual Studio 2008, Qt 4 , Eclipse
- SDK: DirectX , OpenCV , WFC, WDK;
- Programe/medii de dezvoltare vedere artificiala: Matrox Imaging Library (MIL), Halcon, OpenCV
- Sisteme de operare: MS Windows , Linux , Mac OS X
- Dezvoltare in mediul virtual: 3d Game studio , Unreal
- Programe CAD/CAM/CAE: Catia, SolidWorks, Autocad, HyperWorks, Abaqus, Sm Virtual Lab, Autodesk CFD Simulation, X-Flow, Flow3D, Siemens NX, Simufact, LForge
- Programe de grafica: Photoshop, CorelDraw, 3d Studio, Rhino, Cinema4D .

Anexe

Lista lucrărilor publicate si comunicate; Lista proiectelor de cercetare

ANEXA
Lista lucrări

A. Publicatii ISI /ISI Proceedings:

1. Bîrsan, Dan Cătălin, Carmela Gurău, **F. B. Marin**, Cristian Ștefănescu, and Gheorghe Gurău. 2023, *Modeling of Severe Plastic Deformation by HSHPT of As-Cast Ti-Nb-Zr-Ta-Fe-O Gum Alloy for Orthopedic Implant*, Materials 16, no. 8: 3188. <https://doi.org/10.3390/ma16083188>, 2022.. (IF: 3.4)
2. Gurau, G, Gurau, C, Fernandes, FMB, Silva, RJC, **Marin, F.**, *Using High Speed High Pressure Torsion for Cu-13Al-4Ni Shape Memory Alloy Processing*, TRANSACTIONS OF THE INDIAN INSTITUTE OF METALS, DOI 10.1007/s12666-021-02235-4, 2021. (IF: 1.499). <https://www-webofscience-com.am.enformation.ro/wos/woscc/full-record/WOS:000642048200005>
3. V. Marinescu, I. C. Constantin, C. Apostu, **F. B. Marin**, M. Banu, A. Epureanu, *Adaptive dimensional control based on in-cycle geometry monitoring and programming for CNC turning center*, The International Journal of Advanced Manufacturing Technology, Springer London, DOI 10.1007/s00170-010-3132-2, Volume 55, Issue 9-12, pp. 1079-1097, 2011. (IF: 3.226). <https://www-webofscience-com.am.enformation.ro/wos/woscc/full-record/WOS:000292162300019>
4. M. MARIN, F. POTECASU, **F. B. MARIN**, O.POTECASU, P.ALEXANDRU, *Prediction of porosity in iron-based powder metallurgy (P/M) materials using an image processing software*, 16th International Multidisciplinary Scientific GeoConference SGEM 2016, www.sgem.org, vol. MICRO AND NANO TECHNOLOGIES, SGEM2016 Conference Proceedings, ISBN 978-619-7105-68-1 / ISSN 1314-2704, June 28 - July 6, 2016, Book6 Vol. 1, 259-264 pp, DOI: 10.5593/SGEM2016/B61/S24.034, 2016. http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=150&SID=E2A5AYEWVqSABxgDCaw&page1&doc=2
5. C. Maier, A. Epureanu, V. Marinescu, V. Paunoiu, **F. B. Marin**, *A new reduced order technique in metal forming modelling*, Conference: 15th International Conference of Modern Technologies, MODTECH 2011: NEW FACE OF T.M.C.R., VOL I AND II Book Series: International Conference ModTech Proceedings Pages: 617-620 Published: 2011. http://apps.webofknowledge.com.am.enformation.ro/full_record.do?product=WOS&search_mode=GeneralSearch&qid=1&SID=C2P4ztutjBicwm8zDAJ&page=1&doc=5
6. Maier, C, Epureanu, A, Marinescu, V, Paunoiu, V, Afteni, M, **Marin, F.B.**, *Metal forming process control based on reduced order model*, MODTECH 2010: NEW FACE OF TMCR, PROCEEDINGS, Book Series: Proceedings of the International Conference ModTech, Pages: 363-366, Published: 2010, Conference: 14th International Conference on Modern Technologies, Quality and Innovation (ModTech2010) http://apps.webofknowledge.com.am.enformation.ro/full_record.do?product=WOS&search_mode=GeneralSearch&qid=1&SID=C2P4ztuBicwm8zDAJ&page=1&doc=6
7. **Marin, F. B.**, Marinescu, V., Banu, M., Epureanu, A., Constantin, I., *Online High Resolution Machining Process Optimal Control*, MATHEMATICAL METHODS, SYSTEMS THEORY AND CONTROL, Book Series: Mathematics and Computers in Science and Engineering, Pages: 93+, Published: 2009, Conference: 11th WSEAS International Conference on Mathematical Methods, Computational Techniques and Intelligent Systems/8th WSEAS NOLASC 2009/5th WSEAS CONTROL 2009. http://apps.webofknowledge.com.am.enformation.ro/full_record.do?product=WOS&search_mode=GeneralSearch&qid=1&SID=C2P4ztutjBicwm8zDAJ&page=1&doc=7
8. Constantin, I., Epureanu, A., Marinescu, V., Banu, M., **Marin, F. B.**, *Online machining errors compensation*, MATHEMATICAL METHODS, SYSTEMS THEORY AND CONTROL, Book Series: Mathematics and Computers in Science and Engineering Pages: 97+, Published: 2009, Conference: 11th WSEAS International Conference on Mathematical Methods, Computational Techniques and Intelligent Systems/8th WSEAS NOLASC 2009/5th WSEAS CONTROL 2009. http://apps.webofknowledge.com.am.enformation.ro/full_record.do?product=UA&search_mode=GeneralSearch&qid=21&SID=E5moGytkfjCAIQqCkQn&page=1&doc=8&cacheurlFromRightClick=no
9. **F.B. Marin**, Epureanu A., Marinescu V., Banu M., Constantin I.C., *AI technique for online non-linear feedrate scheduling*, MATHEMATICAL METHODS, SYSTEMS THEORY AND CONTROL, Book Series: Mathematics and Computers in Science and Engineering, Pages: 351+, Published: 2009. http://apps.webofknowledge.com.am.enformation.ro/full_record.do?product=WOS&search_mode=GeneralSearch&qid=1&SID=C2P4ztuBicwm8zDAJ&page=1&doc=9
10. Constantin, I.C.; Epureanu, A Banu, M, Marinescu, V, **Marin, F. B.**, *Integrated Approach Of The Dimensional Control In Turning Processes*, PROCEEDINGS OF THE 13TH INTERNATIONAL CONFERENCE MODERN TECHNOLOGIES, QUALITY AND INNOVATION: MODTECH 2009 - NEW FACE OF TMCR, Book Series: Proceedings of the International Conference ModTech, Pages: 199-202, Published: 2009, Conference: 13th International Conference on Modern Technologies, Quality and Innovation (ModTech 2009). http://apps.webofknowledge.com.am.enformation.ro/full_record.do?product=WOS&search_mode=GeneralSearch&qid=1&SID=C2P4ztutBicwm8zDAJ&page=1&doc=10
11. **Marin, F. B;** Epureanu, A, Bann, M; Marinescu, V, Constantin, I. C, *Holonic Feedrate Scheduling*, PROCEEDINGS OF THE 13TH INTERNATIONAL CONFERENCE MODERN TECHNOLOGIES, QUALITY AND INNOVATION: MODTECH 2009 - NEW FACE OF TMCR, Book Series: Proceedings of the International Conference ModTech, Pages: 387-390, Published: 2009, Conference: 13th International Conference on Modern Technologies, Quality and Innovation (ModTech 2009). http://apps.webofknowledge.com.am.enformation.ro/full_record.do?product=WOS&search_mode=GeneralSearch&qid=1&SID=C2P4ztutjBicwm8zDAJ&page=2&doc=11
12. **Marin, F. B**, Constantin, I. C, Marinescu, V, Banu, M., Epureanu, A., *Machine tool configuration and analysis on the base of virtual interactive prototyping*, INTERNATIONAL JOURNAL OF INTERACTIVE DESIGN AND MANUFACTURING – IJIDEM, Volume: 9, Issue: 1, Pages: 77-82, DOI: 10.1007/s12008-014-0222-7, Published: FEB 2015.

http://apps.webofknowledge.com.am.enformation.ro/full_record.do?product=WOS&search_mode=GeneralSearch&qid=13&SID=C2P4ztutjBicwm8zDAJ&page=1&doc=1

13. Epureanu, A., **Marin, F. B.**, Marinescu, V., Banu, M., Constantin, I., *Optimal feedrate scheduling for a reconfigurable lathe*, ACMOS '08: PROCEEDINGS OF THE 10TH WSEAS INTERNATIONAL CONFERENCE ON AUTOMATIC CONTROL, MODELLING AND SIMULATION, Book Series: Electrical and Computer Engineering Series, Pages: 108-+, Published: 2008. http://apps.webofknowledge.com.am.enformation.ro/full_record.do?product=WOS&search_mode=GeneralSearch&qid=17&SID=C2P4ztutjBicwm8DAJ&page=1&doc=1

14. **Marin, F.B.**, Epureanu, A., Banu, M., Marinescu, V., Constantin, I., *Holonic based approach to machine vision*, ACMOS '08: PROCEEDINGS OF THE 10TH WSEAS INTERNATIONAL CONFERENCE ON AUTOMATIC CONTROL, MODELLING AND SIMULATION, Book Series: Electrical and Computer Engineering Series, Pages: 255-+, Published: 2008. http://apps.webofknowledge.com.am.enformation.ro/full_record.do?product=WOS&search_mode=GeneralSearch&qid=1&SID=D2V3MFNJZFiengEYvJ&page=1&doc=1

15. Marinescu, V.; Constantin, IC; Epureanu, A; Banu, M; **Marin, FB**, *Online learning for batch machining control*, ACMOS '08: PROCEEDINGS OF THE 10TH WSEAS INTERNATIONAL CONFERENCE ON AUTOMATIC CONTROL, MODELLING AND SIMULATION, Book Series: Electrical and Computer Engineering Series, Pages: 114-+, Published: 2008. http://apps.webofknowledge.com.am.enformation.ro/full_record.do?product=WOS&search_mode=GeneralSearch&qid=3&SID=D2V3MFNJZFiengNEYvJ&page=1&doc=1

16. Epureanu, A.; **Marin, F.B.**; Marinescu, V.; Banu, M; Constantin, I, *Manufacturing machines – a holonic approach*, ACMOS '08: PROCEEDINGS OF THE 10TH WSEAS INTERNATIONAL CONFERENCE ON AUTOMATIC CONTROL, MODELLING AND SIMULATION, Book Series: Electrical and Computer Engineering Serie, Pages: 261-266, Published: 2008. http://apps.webofknowledge.com.am.enformation.ro/full_record.do?product=WOS&search_mode=GeneralSearch&qid=5&SID=D2V3MFNJZFiengNEYvJ&page=1&doc=1

17. Constantin, IC; Epureanu, A; Paunoiu, V.; Brabie, G; Marinescu, V; **Marin, F. B.**, *Springback adaptive-predictive control*, ACMOS '08: PROCEEDINGS OF THE 10TH WSEAS INTERNATIONAL CONFERENCE ON AUTOMATIC CONTROL, MODELLING AND SIMULATION, Book Series: Electrical and Computer Engineering Series, Pages: 326-+, 2008. http://apps.webofknowledge.com.am.enformation.ro/full_record.do?product=WOS&search_mode=GeneralSearch&qid=7&SID=D2V3MFNJZFiengNEYvJ&page=1&doc=1

18. I.C. Constantin, Epureanu A., Maier C., Albut A., Banu M., **F.B. Marin**, *Thin sheet springback optimal assessment*, ACMOS '08: PROCEEDINGS OF THE 10TH WSEAS INTERNATIONAL CONFERENCE ON AUTOMATIC CONTROL, MODELLING AND SIMULATION, Book Series: Electrical and Computer Engineering Series, Pages: 311-+, https://appswebofknowledgecom.am.enformation.ro/full_record.do?product=WOS&search_mode=GeneralSearch&qid=16&SID=D5vWfx6OEgXVHjzZfjN&page=2&doc=17

B. Lucrari BDI:

1. **F. B. MARIN**, D. L. BURUIANA, V. GHISMAN, M. MARIN, *Deep neural network modeling for CFD simulation of drone bioinspired morphing wings*, INCAS BULLETIN, Volume 15, Issue 4pp. 149 – 157, (P) ISSN 2066-8201, (E) ISSN 2247-4528, / 2023.

https://bulletin.incas.ro/volume_15_issue_42023.html

2. G. Procopenco, **F. B. MARIN**, M. MARIN, *Topological optimization using neuronal algorithm*, THE ANNALS OF “DUNAREA DE JOS” UNIVERSITY OF GALATI, FASCICLE IX. METALLURGY AND MATERIALS SCIENCE, No . 4 - 2023, ISSN 2668-4748; e-ISSN 2668-4756 Volume DOI: <https://doi.org/10.35219/mms.2023.4>

3. **F. B. Marin** M. MARIN, *Chainsaw sound detection using dnn algorithm*, THE ANNALS OF “DUNAREA DE JOS” UNIVERSITY OF GALATI, FASCICLE IX. METALLURGY AND MATERIALS SCIENCE, No . 4 - 2023, ISSN 2668-4748; e-ISSN 2668-4756 Volume DOI: <https://doi.org/10.35219/mms.2023.4>.

4. **F. B. MARIN**, M. MARIN, *Supervised learning plastic defect algorithm detection*, THE ANNALS OF “DUNAREA DE JOS” UNIVERSITY OF GALATI, FASCICLE IX. METALLURGY AND MATERIALS SCIENCE, No . 4 - 2023, ISSN 2668-4748; e-ISSN 2668-4756 Volume DOI: <https://doi.org/10.35219/mms.2023.4>

5. **F. B. Marin** A. A. Dogaru, M. MARIN, *Modeling and simulation of auxetic materials for ballistic protection*, THE ANNALS OF “DUNAREA DE JOS” UNIVERSITY OF GALATI, FASCICLE IX. METALLURGY AND MATERIALS SCIENCE, No . 4 - 2023, ISSN 2668-4748; e-ISSN 2668-4756 Volume DOI: <https://doi.org/10.35219/mms.2023.4>.

6. M. MARIN, **F. B. MARIN**, *Porosity measurements and analysis of sintered and thermochemical heat treated p/m compacts*, THE ANNALS OF “DUNAREA DE JOS” UNIVERSITY OF GALATI FASCICLE IX. METALLURGY AND MATERIALS SCIENCE, No . 4 - 2023, ISSN 2668-4748; e-ISSN 2668-4756 Volume DOI: <https://doi.org/10.35219/mms.2023.4>.

7. **F. B. MARIN**, M. G. MATAACHE, M. MARIN, C. GURĂU, G. GURĂU, *IDENTIFICATION OF CROP DISEASES USING DEEP LEARNING ALGORITHM*, THE ANNALS OF “DUNAREA DE JOS” UNIVERSITY OF GALATI FASCICLE IX. METALLURGY AND MATERIALS SCIENCE No . 3 - 2022, ISSN 2668-4748; e-ISSN 2668-4756 Article DOI: <https://doi.org/10.35219/mms.2022.3.04, 2022>.

8. **F. B. MARIN**, G. GURĂU, Mihaela MARIN, *Real-Time Assembly Operation Recognition*, THE ANNALS OF “DUNAREA DE JOS” UNIVERSITY OF GALATI, FASCICLE IX. METALLURGY AND MATERIALS SCIENCE No. 4-2022, ISSN 26684748; e-ISSN 2668-4756, Volume DOI: <https://doi.org/10.35219/mms.2022.4.15, 2022>.

9. **F. B. MARIN**, M. MARIN, *CFD MODELING AND SIMULATION OF A TINY HOUSE IN EXTREME WEATHER CONDITIONS*, , THE ANNALS OF “DUNAREA DE JOS” UNIVERSITY OF GALATI, FASCICLE IX. METALLURGY AND MATERIALS SCIENCE No. 4-2022, ISSN 26684748; e-ISSN 2668-4756, Volume DOI: <https://doi.org/10.35219/mms.2022.4.16, 2022>.

10. M. MARIN, **F. B. MARIN**, *THE INVESTIGATION ON DIMENSIONAL STABILITY IN SOME SINTERED POWDER METALLURGY ALLOYS*, THE ANNALS OF “DUNAREA DE JOS” UNIVERSITY OF GALATI, FASCICLE IX. METALLURGY AND MATERIALS SCIENCE No. 4-2022, ISSN 26684748; e-ISSN 2668-4756, Volume DOI: <https://doi.org/10.35219/mms.2022.4.17>

11. **F. B. MARIN**, Mihaela MARIN, Gheorghe GURĂU, MATERIAL RECOGNITION USING CNN APPROACH FOR GARBAGE COLLECTION SYSTEM, THE ANNALS OF "DUNAREA DE JOS" UNIVERSITY OF GALATI, FASCICLE IX. METALLURGY AND MATERIALS SCIENCE No. 4-2022, ISSN 26684748; e-ISSN 2668-4756, Volume DOI: <https://doi.org/10.35219/mms.2022.4.20>
12. **F. B. MARIN**, M. MARIN, *Drone Detection Using Image Processing Based On Deep Learning*, THE ANNALS OF "DUNAREA DE JOS" UNIVERSITY OF GALATI FASCICLE IX. METALLURGY AND MATERIALS SCIENCE No. 4 - 2021, ISSN 2668-4748; e-ISSN 2668-4756 Article DOI: <https://doi.org/10.35219/mms.2021.4.06>, 2021.
13. **F. B. MARIN**, Mihaela MARIN, *CFD Modeling Of Aerodynamic Car Brake Cooling System*, THE ANNALS OF "DUNAREA DE JOS" UNIVERSITY OF GALATI FASCICLE IX. METALLURGY AND MATERIALS SCIENCE No. 4 - 2021, ISSN 2668-4748; e-ISSN 2668-4756 Article DOI: <https://doi.org/10.35219/mms.2021.4.08>, 2021.
14. M. MARIN, **F. B. MARIN**, *Determination Of Porosity In Fluidized- Bed Carburized P/M Compacts Using An Image Software Analysis*, THE ANNALS OF "DUNAREA DE JOS" UNIVERSITY OF GALATI FASCICLE IX. METALLURGY AND MATERIALS SCIENCE No. 4 - 2021, ISSN 2668-4748; e-ISSN 2668-4756 Article DOI: <https://doi.org/10.35219/mms.2021.4.07>, 2021.
15. **F. B. MARIN**, M. MARIN, *CFD Modeling And Simulation Of An Industrial Hall*, THE ANNALS OF "DUNAREA DE JOS" UNIVERSITY OF GALATI FASCICLE IX. METALLURGY AND MATERIALS SCIENCE No. 4 - 2021, ISSN 2668-4748; e-ISSN 2668-4756, Article DOI: <https://doi.org/10.35219/mms.2021.4.15>, 2021.
16. M. Marin, **F. B. Marin**, C. Gurau, G. Gurau, *Experimental and prediction the corrosion resistance of some sintered iron alloys subjected to a thermochemical treatment by using artificial neural network*, International Multidisciplinary Scientific GeoConference: SGEM, Volume, International Multidisciplinary Scientific GeoConference: SGEM, Volume 20, Issue 2.1, pp. 145-152, Surveying Geology & Mining Ecology Management (SGEM), ISBN:978-619-7603-06-4, ISSN:1314-2704, 20th International Multidisciplinary Scientific GeoConference SGEM 2020, 18-24 August, Albena, Bulgaria 2020, DOI:<https://doi.org/10.5593/sgem2020/2.1>, 2020.
17. **F. B. Marin**, G. Gurau, C. Gurau, M. Marin, *Wees species image recognition using deep learning technique for selective spot spraying*, International Multidisciplinary Scientific GeoConference: SGEM, Volume, International Multidisciplinary Scientific GeoConference: SGEM, Volume 20, Issue 2.1, pp. 145-152, Surveying Geology & Mining Ecology Management (SGEM), ISBN:978-619-7603-06-4, ISSN:1314-2704, 20th International Multidisciplinary Scientific GeoConference SGEM 2020, 18-24 August, Albena, Bulgaria 2020, DOI:<https://doi.org/10.5593/sgem2020/2.1>, 2020.
18. **F. B. Marin**, M. Marin, *Real-Time Raindrop Detection Based on Deep Learning Algorithm*, THE ANNALS OF "DUNAREA DE JOS" UNIVERSITY OF GALATI FASCICLE IX. METALLURGY AND MATERIALS SCIENCE No. 4 - 2020, ISSN 2668-4748; e-ISSN 2668-4756 Article DOI: <https://doi.org/10.35219/mms.2020.4.09>, pag. 47-52, 2020.
19. **Marin F.**, Gurau G., Gurau C., Marin M., Matache A.*, Petre A.A., Vanghele N., *INTELLIGENT APPLICATION SYSTEMS BY SPRAYING SUBSTANCES IN AGRICULTURE*, AGRICULTURAL AND MECHANICAL ENGINEERING, pag.260-268, Print: ISSN 2344 – 4118, Bucharest 30 October 2020.
20. **F. B. Marin**, M. Marin, *Modeling of dimensional changes in some iron-based powder metallurgy compacts using an artificial neural network*, International Multidisciplinary Scientific GeoConference: SGEM, Volume 19, Issue 2.1, pp. 459-463, Surveying Geology & Mining Ecology Management (SGEM), ISBN:978-619-7408-79-9, ISSN:1314-2704, 19th International Multidisciplinary Scientific GeoConference SGEM 2019, 30 June - 6 July, 2019, DOI:10.5593/sgem2019/2.1/S07.060, 2019.
21. Marin, M., **Marin, F.B.**, *A computational method to predict the dimensional changes in some powder metallurgy materials*, International Multidisciplinary Scientific GeoConference: SGEM, Volume 19, Issue 2.1, pp. 11-16, Surveying Geology & Mining Ecology Management (SGEM), ISBN:978-619-7408-79-9, ISSN:1314-2704, 19th International Multidisciplinary Scientific GeoConference SGEM 2019, 30 June - 6 July, 2019, DOI:10.5593/sgem2019/2.1/S07.060, 2019.
22. **F.B. Marin**, M Marin, C Gurău, G Gurău, *Artificial neural network (ANN) application to predict the mechanical properties in some iron-based powder metallurgy alloys*, International Multidisciplinary Scientific GeoConference: SGEM, Volume 19, Issue 2.1, pp. 115-121, Surveying Geology & Mining Ecology Management (SGEM), ISBN:978-619-7408-79-9, ISSN:1314-2704, 19th International Multidisciplinary Scientific GeoConference SGEM 2019, 30 June - 6 July, 2019, DOI:10.5593/sgem2019/2.1/S07.060,2019.
23. M. Marin, **F.B.Marin**, G Carmela, G Gheorghe, *Use of artificial neural network in predicting the wear resistance of some iron-based powder metallurgy materials subjected to a thermochemical treatment*, International Multidisciplinary Scientific GeoConference: SGEM, Volume 19, Issue 2.1, pp. 689-695, Surveying Geology & Mining Ecology Management (SGEM), ISBN:978-619-7408-79-9, ISSN:1314-2704, 19th International Multidisciplinary Scientific GeoConference SGEM 2019, 30 June - 6 July, 2019, DOI:10.5593/sgem2019/2.1/S07.060, 2019.
24. Marin, M., **F.B. Marin**, *Quantitative image analysis in some iron powder metallurgy materials*, IOP Conf. Series: Materials Science and Engineering 485 (2019) 012011 doi:10.1088/1757-899X/485/1/012011, 2019.
25. **F. B. Marin**, C Solomon, M Marin, *Bearing failure prediction using audio signal analysis based on SVM algorithms*, IOP Conf. Series: Materials Science and Engineering 485 (2019) 012012 IOP Publishing doi:10.1088/1757-899X/485/1/012012, 2019.
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D. Brevete de inventie

1. Number: RO130709-A2

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2. Number: RO125366-A2; RO125366-B1

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Inventors: BANU M.; CONSTANTIN I.; EPUREANU A.; **MARIN F. B.**; MARINESCU V., *Method for identifying geometric elements in an image with applications i cutting tools of reconfigurable technological systems*, Derwent Primary Accession Number 2012-H56203, Indexed 2023-08-10, IPC: G06T-007/00, Derwent Class Code(s) T01, Application Number RO127587-A2, Application Date 19.11. 2010, Publication Number RO127587-A2, Publication Date 29.06. 2012.

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E. Granturi de cercetare

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2. Contract ADER 25.2.2 / 2019, *Research on the design of intelligent horticultural analysis equipment, prediction and biodynamic action ”- membru*

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4. IDEAS PN-II-ID-PCE-2007-1 - Project No. ID-653-231 /2007, *Development of a new concept of driving technological machines - holarhic attributive control – membru.*

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