



Curriculum vitae Europass

Informații personale

Nume / Prenume **MARIN MIHAELA**

Adresă Str. Domnească nr. 111, corp AN, sala 207, 800201, Galați, ROMANIA

E-mailuri mihaela.marin@ugal.ro

Naționalitate Română

Experiența profesională

Perioada februarie 2018 - 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 Facultatea de Inginerie,
Universitatea „Dunărea de Jos” din Galați,
Str. Domnească nr. 47, Galati. Telefon: 0236-46.03.28, 0236-41.41.12, Fax: 0236-46.13.53

Perioada octombrie 2012 – ianuarie 2018

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

Activități și responsabilități principale Activitate didactică și de cercetare.

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

Perioada octombrie 2011 – septembrie 2012

Funcția sau postul ocupat **Asistent universitar / cadru didactic asociat**

Activități și responsabilități principale Activitate didactică și de cercetare.

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

Educație și formare

Perioada octombrie 2006 - martie 2011

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

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

Nivelul în clasificarea națională sau internațională Studii doctorale

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 Metalurgie și Știința Materialelor, 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 Metalurgie, 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 universitare de lungă durată							
Stagii de cercetare externe	martie 2009 – iunie 2009 – în cadrul centrului de cercetare CENIMAT, Departamentul Știința Materialelor, Facultatea de Științe și Tehnologie, Universitatea Nova Lisabona, Portugalia. Coordonatori stagiu: Prof. dr. ing. Braz F.M. Fernandez, Prof. dr. ing. Rui J. Cordeiro Silva.							
Aptitudini și competențe personale	Româna							
Limba maternă	Româna							
Limbi străine cunoscute								
Autoevaluare Nivel european (*)	Înțelegere		Vorbire			Scriere		
	Ascultare	Citire	Participare la conversație	Discurs oral	Exprimare scrisă			
Engleza	B2 Utilizator experimentat	B1 Utilizator experimentat	B1 Utilizator experimentat	B1 Utilizator experimentat	B2 Utilizator experimentat			
Franceza	B1 Utilizator independent	B1 Utilizator independent	B1 Utilizator independent	B1 Utilizator independent	B1 Utilizator independent			
Portugheza	A2 Utilizator elementar	A2 Utilizator elementar	A2 Utilizator elementar	A2 Utilizator elementar	A2 Utilizator elementar			
Competențe și abilități sociale	capacitate de adaptare la diverse medii sociale							
Competențe și aptitudini organizatorice	capacitatea de sinteză și organizare, spirit de inițiativă, responsabilitate.							
Competențe și aptitudini de utilizare a calculatorului	utilizare PC: SO Windows X, Internet; utilizare programe: Microsoft Office (Word, Excel, Power Point, Visio), AutoCad, Catia, Photoshop, Corel Draw, Macromedia Dreamweaver, Image J, Optika, VoltaLab, SPIP Image Metrology, OriginLab, SolidWorks.							
Competențe și aptitudini tehnice	experiență în pregătirea și analiza macro și microstructurală a probelor metalografice, analiza microstructurală a oțelurilor și fontelor la microscopul optic, analiza materialelor ceramice și compozite, analiza și studierea pulberilor metalice prin metode specifice metalurgiei pulberilor, efectuare de încercări și determinări mecanice.							
Anexe	Lista lucrari							

Anexa
LISTĂ LUCRĂRI

A. LUCRĂRI ISI/PROCEEDINGS ISI

- G. Gurau, C. Gurau, F. M. B. Fernandes, P. Alexandru, V. Sampath, **M. Marin**, B. M. Galbinas, *Structural Characteristics of Multilayered Ni-Ti Nanocomposite Fabricated by High Speed High Pressure Torsion (HSHPT)*, Metals, vol. 10, no. 12, 1629, doi:10.3390/met10121629.
- F.POTECASU, **M.MARIN**, O.POTECASU, F.B.MARIN, M. NEACSU, *Improved corrosion resistance and mechanical properties in sintered iron-based p/m materials by applying a thermochemical treatment* - 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, Book6 Vol. 1, 159-166 pp, DOI: 10.5593/SGEM2016/B61/S24.021, 2016
- **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, Book6 Vol. 1, 259-264 pp, DOI: 10.5593/SGEM2016/B61/S24.034, 2016
- **Marin Mihaela**; Potecasu Florentina; Potecasu Octavian; Istrate Gina, *Role of alloying addition on mechanical properties and corrosion resistance of some sintered powder metallurgy alloys*, Geoconference On Nano, Bio And Green - Technologies For A Sustainable Future, VOL I (SGEM 2015, Albena, BULGARIA) Book Series: International Multidisciplinary Scientific GeoConference-SGEM Pages: 181-186, 2015
- Potecasu Florentina; **Marin Mihaela**; Potecasu Octavian; Istrate Gina, *The influence of heat treatment on corrosion resistance of some sintered iron alloys*, Geoconference On Nano, Bio And Green, Technologies For A Sustainable Future, VOL I (SGEM 2015, Albena, BULGARIA) Book, Series: International Multidisciplinary Scientific GeoConference-SGEM Pages: 221-226, 2016.
- F. Potecasu, O. Potecasu, M. Bordei, P. Alexandru, **M. Marin**, *The Corrosion Behavior Of Naval Reconditioned Steel By Welding In Marine Environment -13th SGEM GeoConference on Science and Technologies In Geology, Exploration and Mining*, www.sgem.org, SGEM2013 Conference Proceedings, ISBN 978-954-91818-8-3 / ISSN 1314-2704, 2013, Vol. 2, 973 - 980 pp. DOI:10.5593/SGEM2013/BA1.V2/S06.005, 2013
- **Marin M**; Drugescu, E; Potecasu, O, POTECASU F, Rui Silva CORDEIRO, *Study of corrosion behavior for steam treated sintered iron powder*, Metalurgia International, Editura Stiintifică F.M.R., vol. XIV (2010), Volume: 15 Issue: 12, pp: 95-100, 2010.

B. LUCRĂRI BDI

- 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
- 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>
- 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>
- 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>
- 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>.
- **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>.
- F. B. MARIN, M. G. MATACHE, **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.
- F. B. MARIN, G. GURĂU, **M. 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.
- 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.

- **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>
- F. B. MARIN, **M. 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>
- 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.
- F. B. MARIN, **M. 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.
- 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.
- 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.
- **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.
- 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.
- 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.
- 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.
- 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.
- **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.
- 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.
- **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.
- **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.
- 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.
- F.B. MARIN, C. GURĂU, **M. MARIN**, *Machine learning technique to detect defects on the steel surface*, THE ANNALS OF "DUNĂREA DE JOS" UNIVERSITY OF GALAȚI, FASCICLE V, TECHNOLOGIES IN MACHINE BUILDING, ISSN 2668-4829 (print) 2668-4888 (online), 2019.
- F. B. MARIN, G. GURĂU, **M. MARIN**, *Holonic multi-agent systems algorithm for augmented reality interactive assistance*, THE ANNALS OF "DUNĂREA DE JOS" UNIVERSITY OF GALAȚI, FASCICLE V, TECHNOLOGIES IN MACHINE BUILDING, ISSN 2668-4829 (print) 2668-4888 (online), 2019
- F.B. Marin **Marin M.**, *Automatic identification of flying bird species using computer vision techniques for ecological data analysis*, THE ANNALS OF "DUNAREA DE JOS" UNIVERSITY OF GALATI FASCICLE IX. METALLURGY AND MATERIALS SCIENCE No. 4 - 2019, ISSN 2668-4748; e-ISSN 2668-4756, 2019.

- F. B. MARIN, **M. MARIN**, G. GURĂU, C. GURĂU, I. PETREA , *Image processing analysis of porosity in some iron- based powder metallurgy materials*, , GeoConference SGEM 2018, Conference Proceedings, ISBN 978-619-7408-12-6 / ISSN 1314-2704, 29 June - 5 July, 2018, Vol. 17, Issue 61, 125-132 pp, DOI: 10.5593/sgem2017/61/S24.017, 2018.
- **Marin, M.**, Marin, F.B., Gurău, C., Gurău, G., Alexandru, P., *Experimental and prediction of porosity in some sintered iron-based powder metallurgy materials by using artificial neural networks*, International Multidisciplinary Scientific GeoConference Surveying Geology and Mining Ecology Management, SGEM Volume 18, Issue 6.1, 2018, Pages 207-212, 18th International Multidisciplinary Scientific Geoconference, **ISSN: 13142704, DOI: 10.5593/sgem2018/6.1/S24.028**, 2018.
- **Marin, M.**, Marin, F.B., Gurău, C., Gurău, G., Petrică, A. , *A computational method for the prediction of corrosion resistance of some iron powder metallurgy materials.*, International Multidisciplinary Scientific GeoConference Surveying Geology and Mining Ecology Management, SGEM Volume 18, Issue 6.1, 2018, Pages 3-8, 18th International Multidisciplinary Scientific Geoconference, SGEM 2018; Albena; Bulgaria; 2- 8 July 2018; ISSN: 13142704, DOI: 10.5593/sgem2018/6.1/S24.001, 2018.
- Marin, F.B., **Marin, M.**, Gurău, G., Gurău, C., Petrică, A. , *Application of an artificial neural network for prediction of the wear resistance of sintered iron alloys*, International Multidisciplinary Scientific GeoConference Surveying Geology and Mining Ecology Management, SGEM Volume 18, Issue 6.1, 2018, Pages 55-60 18th International Multidisciplinary Scientific Geoconference, SGEM 2018; Albena; Bulgaria; 2 July 2018 through 8 July 2018; **ISSN: 13142704, DOI: 10.5593/sgem2018/6.1/S24.008**, 2018.
- G. GURAU, C.GURAU, **M. MARIN**, F. B.MARIN, *On deformation behaviour and microstructural change of Cu-9.51Al-3.81Ni alloy*, International Multidisciplinary Scientific GeoConference Surveying Geology and Mining Ecology Management, SGEM Volume 18, Issue 6.1, 2018, Pages 363-370, 18th International Multidisciplinary Scientific Geoconference, SGEM 2018; Albena; Bulgaria; 2-8 July 2018; **ISSN: 13142704, DOI: 10.5593/sgem2018/6.1/S24.049**, 2018.
- Gurau, C., Gurau, G., Gurau, L., **Marin, M.**, Marin, F.B , *Composition effects and thermomechanical treatments on mechanical and structural performance of s420nl steel*, , International Multidisciplinary Scientific GeoConference Surveying Geology and Mining Ecology Management, SGEM Volume 18, Issue 6.1, 2018, Pages 131-138, 18th International Multidisciplinary Scientific Geoconference, SGEM 2018; Albena; Bulgaria; 2 July 2018 through 8 July 2018; **ISSN: 13142704, DOI: 10.5593/sgem2018/6.1/S24**, 2018.
- F. B. MARIN, **M. MARIN**, G. GURĂU, C. GURĂU, I. PETREA, *Image processing analysis of porosity in some iron- based powder metallurgy materials*, GeoConference SGEM2018, www.sgem.org, SGEM2017 Conference Proceedings, ISBN 978-619-7408-12-6 / ISSN 1314-2704, 29 June - 5 July, 2018, Vol. 17, Issue 61, 125-132 pp, DOI: 10.5593/sgem2017/61/S24.017, 2018.
- **Marin, M.**, Marin, F. B., Gurău, C., Gurău, G., Alexandru, P., *Experimental and prediction of porosity in some sintered iron-based powder metallurgy materials by using artificial neural networks*, International Multidisciplinary Scientific GeoConference Surveying Geology and Mining Ecology Management, SGEM Volume 18, Issue 6.1, 2018, Pages 207-212, 18th International Multidisciplinary Scientific Geoconference, SGEM 2018; Albena; Bulgaria; 2-8 July 2018; **ISSN: 13142704, DOI: 10.5593/sgem2018/6.1/S24.028**, 2018.
- **Marin, M.**, Marin, F. B., Gurău, C., Gurău, G., Petrică, A., *A computational method for the prediction of corrosion resistance of some iron powder metallurgy materials*, International Multidisciplinary Scientific GeoConference Surveying Geology and Mining Ecology Management, SGEM Volume 18, Issue 6.1, 2018, Pages 3-8, 18th International Multidisciplinary Scientific Geoconference, SGEM 2018; Albena; Bulgaria; 2- 8 July 2018; ISSN: 13142704, DOI: 10.5593/sgem2018/6.1/S24.00.
- O. Potecașu, F. Potecașu, **M. Marin**, F.B. Marin and F. Chicoș, *The Influence of the Deformation Degree on the Mechanical Properties and Microstructures of the Blanks Obtained by Tube and Wire Drawing* , Advanced Materials Research Vol. 1143, ISBN: 978-3-0357-1069-4, pag 85- 91, 2017.
- F. Potecașu, **M. Marin**, O. Potecașu and F.B. Marin, *Influence of the Iron Oxide Phases in Steam Oxidation on the Mechanical Properties and Abrasive Wear of Sintered Iron Materials*, Advanced Materials Research Vol. 1143, Book - Nanotechnologies and Advanced aterials, ISBN: 978-3-0357-1069-4, pag 91- 96, 2017.
- **M. Marin**, F. Potecașu, O. Potecașu, F.B. Marin, *Influence of the Pore Characteristics on Mechanical Properties and Abrasive Wear of Sintered Iron-Based Alloys Subjected to a Thermochemical Treatment*, Advanced Materials Research Vol. 1143, Book - Nanotechnologies and Advanced Materials, ISBN: 978-3-0357-1069-4, pag 97- 102, 2017.
- **M. Marin**, F. Potecașu, O. Potecașu and F.B. Marin, *Image Analysis Software for Porosity Measurements in Some Powder Metallurgy Alloys*, Advanced Materials Research Vol. 1143, Book - Nanotechnologies and Advanced Materials, ISBN: 978-3-0357-1069-4, pag 103-107, 2017.
- F.B. Marin, F. Potecașu, **M. Marin**, A. Petrica, *Automatic Grain Size Determination in Microstructures Using Computer Vision Algorithm Based on Support Vector Machine (SVM)*, Advanced Materials Research Vol. 1143, Book - Nanotechnologies and Advanced Materials, ISBN: 978-3-0357-1069-4, pag 194- 199, 2017.
- Marin Florin Bogdan, **Marin Mihaela**, *Computer vision technique for 3D model reconstruction of historical building from photographs*, *The Annals Of "Dunarea De Jos" University Of Galati*. Fascicle V, Technologies in Machine Buildings, ISSN 1221 – 4566, p.32-36, 2016.
- Florentina POTECAȘU, **Mihaela MARIN**, Octavian POTECAȘU, Tamara RADU, Gina ISTRATE, *Influence of alloying elements on corrosion resistance of some sintered iron-base alloys*, *The Annals Of "Dunarea De Jos" University Of Galati*. Fascicle IX. Metallurgy And Materials Science, No.1 – 2015, ISSN 1453 – 083X, p. 15-18, 2015.
- **Mihaela Marin**, Florentina Potecașu, Octavian Potecașu, Dimensional Changes in Some Iron-Based Powder Metallurgy Alloys, *The Annals Of "Dunarea De Jos" University Of Galati*. Fascicle IX. Metallurgy And Materials Science, No. 1, ISSN 1453 – 083X, p.66-70, 2015.
- **Mihaela Marin**, Florentina Potecasu, Petrică Alexandru, Octavian Potecasu, Elena Drugescu, *Wear Behavior of Carburizing on Powder Metallurgy*, *The Annals of Dunarea de Jos University of Galati*, Fascicola IX Metallurgy and Materials Sceince, nr. 2, pag 60-68, 2014.
- **Mihaela Marin**, Florentina Potecasu, Octavian Potecasu, *Microstructural Characteristics of the Sintered Powder Metallurgy Alloys*, *The Annals of Dunarea de Jos University of Galati*, Fascicola IX Metallurgy and Materials Sceince, nr. 4, pag 45-49, 2014.

- Florentina Potecașu, **Mihaela Marin**, Octavian Potecașu, Elena Drugescu, *Influence of porosity on mechanical properties of powder metallurgy alloys*, The Annals Of "Dunarea De Jos" University Of Galati, Fascicle IX. Metallurgy And Materials Science, Special Issue – 2014, ISSN 1453 – 083X, pag. 42 – 49, 2014.
- **Mihaela MARIN**, Florentina POTECAȘU, Octavian POTECAȘU, *Researches Regarding the Influence of Steam Oxidation on Sintered Alloys Properties*, **The Annals Of "Dunarea De Jos" University Of Galati**, Fascicle IX. Metallurgy And Materials Science, Nr. 3, pag.39-44; ISSN 1453 – 083X, 2013.
- **Mihaela MARIN**, Florentina POTECAȘU, Elena DRUGESCU, Octavian POTECAȘU, *Researches Regarding the Effect of Steam Oxidation on Microstructure and Wear Behavior of Sintered Alloys*, **The Annals Of "Dunarea De Jos" University Of Galati**. Fascicle IX. Metallurgy And Materials SciencE SPECIAL ISSUE,, pag.38-42; ISSN 1453 – 083X, 2013.
- **Mihaela MARIN**, Florentina POTECAȘU, Elena DRUGESCU, Octavian POTECAȘU, Petrică ALEXANDRU, *The Influence of Steam Treatment on Mechanical Properties and Abrasive Wear Behavior of Sintered P/M Steels*, The Annals Of "Dunarea De Jos" University Of Galati. Fascicle IX. Metallurgy And Materials Science NO. 2, pag.25 -29; ISSN 1453 – 083X, 2012.
- **Mihaela Marin**, Florentina Potecașu, Elena Drugescu, Octavian Potecașu, Petrică Alexandru, *Mechanical Properties And Abrasive Wear Behavior Of Fluidized- Bed Carburized Sintered Iron Alloys*, The Annals Of "Dunarea De Jos" University Of Galati. Fascicle Ix. Metallurgy And Materials Science NO. 4, Pag.41-46; ISSN 1453 – 083X, 2012.
- **Mihaela Marin**, Florentina Potecașu, Elena Drugescu, Octavian Potecașu, Petrică Alexandru, *Effect of Fluidized- Bed Carburizing on Mechanical Properties and Abrasive Wear Behavior of Sintered Steel*, **The Annals Of 'Dunărea De Jos' University Of Galați**, Fascicle IX Metallurgy And Material Science, ISSN 1453 –083X, nr.3, pag.53-58, 2011.
- Florentina POTECASU, Octavian POTECASU, Petrica ALEXANDRU, **Mihaela MARIN**, *The influence of the deformation degree on the hardening of duralumin processed through solution heat treatment* . Revista Metalurgia nr.7, p.53, 2011.
- **Mihaela MARIN**, Elena DRUGESCU, Florentina POTECASU, Octavian POTECASU, Petrica ALEXANDRU, *Mechanical properties and abrasive wear behavior of steam treated sintered iron alloys*, Revista Metalurgia nr.6, p.15, 2011.
- F. Susac, I. Constantin, M. Banu, A. Epureanu, F. Potecasu, **M. Marin**, *Towards improved mechanical properties of aluminum alloy cast parts*, THE ANNALS OF "DUNĂREA DE JOS" UNIVERSITY OF GALAȚI FASCICLE V, TECHNOLOGIES IN MACHINE BUILDING, ISSN 1221- 4566, pp. 91-94, 2011.
- G. ISTRATE, P. ALEXANDRU, O. MITOSERIU, **M. MARIN**, *Morphology of nickel matrix composite coatings with nano- silicon dispersion phase*, THE ANNALS OF "DUNAREA DE JOS" UNIVERSITY OF GALATI. FASCICLE IX. METALLURGY AND MATERIALS SCIENCE NO . 3, ISSN 1453 – 083X , pag. 38-41, 2011.
- Elena DRUGESCU, **Mihaela MARIN**, Florentina POTECAȘU, Rui Silva CORDEIRO, *Carburization behaviour of sintered products*, METALURGIA NR.7, ISSN 0461-9579, PAG. 5 – 11, 2010.
- **M. Marin**, E. Drugescu, O. Potecașu, , *Effect of sintering on dimensional control of ferrous PM alloys*, Revista Metalurgia, nr. 3, pp. 5 -10, ISSN 0461-9579, 2010.
- **M. Marin**, R. C. Silva, *Characterization of iron and low alloy steel powders obtain by water atomization*, Revista Metalurgia, nr. 1, pp. 29 - 34, ISSN 0461-9579, 2009.

C. Prezentari/postere la conferinte nationale si internationale:

- F. B. MARIN, D. L. BURUIANĂ, V. GHIȘMAN, **M. MARIN**, *Deep Neural Network Modeling for CFD Simulation of Drone Bioinspired Morphing Wings*, The 40th "Caius Iacob" Conference on Fluid Mechanics and its Technical Applications 19 – 20 October 2023, Bucharest, Romania Section 5. Technical Applications
https://old.incas.ro/images/stories/Caius_Iacob_2023/List%20of%20participants%20with%20accepted%20papers_for_Caius_Iacob_2023_alf_22-10-2023.pdf
- F. B. MARIN, D. L. BURUIANĂ, V. GHIȘMAN, **M. MARIN**, *CFD modeling for urban blast simulation*, The 40th "Caius Iacob" Conference on Fluid Mechanics and its Technical Applications 19 – 20 October 2023, Bucharest, Romania Section 5. Technical Applications
https://old.incas.ro/images/stories/Caius_Iacob_2023/List%20of%20participants%20with%20accepted%20papers_for_Caius_Iacob_2023_alf_22-10-2023.pdf
- **Marin M.**, Buruiană D. L., Mocanu A. M., Marin F. B., Bogatu N. L., *Heart Rate Monitoring Device Using Arduino Platform*, International Conference on Biomaterials and Regenerative Medicine, pp. 183, 19-21 iulie, Sibiu, Romania, 2023.
<https://bioremed.ro/wp-content/uploads/2023/07/Conference-Proceeding-Bioremed-2023.pdf>
- Buruiană D. L., Marin F. B., Vasilache F., Gurău G., **Marin M.**, Ghisman G., *Holonic control of automatic chest compression device*, International Conference on Biomaterials and Regenerative Medicine, pp. 171, 19-21 iulie, Sibiu, Romania, 2023.
<https://bioremed.ro/wp-content/uploads/2023/07/Conference-Proceeding-Bioremed-2023.pdf>
- Marin F. B., Buruiană D. L., Miron L.-N., Gurău G., **Marin M.**, *Intelligent active medical exoskeleton*, International Conference on Biomaterials and Regenerative Medicine, pp. 170, 19-21 iulie, Sibiu, Romania, 2023.
<https://bioremed.ro/wp-content/uploads/2023/07/Conference-Proceeding-Bioremed-2023.pdf>
- **M. MARIN**, L.-D. BURUIANĂ, F.-B. MARIN, G. GURĂU, *Neural Network Modeling to Predict the Properties of Sintered-Iron Based Powder Metallurgy Materials*, pp.88, International Conference on Innovative Research Iasi, 11th–12 th of May 2023, EUROINVENT ICIR 2023.
https://www.euroinvent.org/cat/ICIR_2023.pdf

- F. B. MARIN, G. GURĂU, LL. D. BURUIANĂ, **M. MARIN**, *Pedestrian detection equipment for the blind spot*, pp. 393, International Conference on Innovative Research Iasi, 11th–12 th of May 2023, EUROINVENT ICIR 2023.
- https://www.euroinvent.org/cat/ICIR_2023.pdf
- F. B. MARIN, G. GURĂU, L. D. BURUIANĂ, **M. MARIN**, *Algorithm for detection of dangerous situation in traffic based on deep learning*, pp. 392, International Conference on Innovative Research Iasi, 11th–12 th of May 2023, EUROINVENT ICIR 2023.
- **M. Marin**, D. L. Buruiana, C. D. Obreja, V. Ghisman and F. B. Marin, *Computer Vision based Object Detection in High Resolution Images*, 44th PARIS International Conference on “Advances in Engineering, Science & Technology” (PAEST-2022).
- F. B. Marin, D. L. Buruiana, V. Ghisam, **M. Marin**, *Holonic Modeling for Speech Recognition*, ”, 44th PARIS International Conference on “Advances in Engineering, Science & Technology” (PAEST-2022).
- F. B. Marin, G. Gurau, D. L. Buruiana, **M. Marin**, *Bio-inspired Composite Structure for 3D Printed Armor*, 9 th International Conference on Materials Science and Technologies – RoMAT 2022 November 24-25, 2022, Bucharest, Romania, www.romat2022.ro
- F. B. Marin, G. Gurau, D. L. Buruiana, **M. Marin**, *Topology Optimization of Micro-drone Body*, 9 th International Conference on Materials Science and Technologies – RoMAT 2022 November 24-25, 2022, Bucharest, Romania, www.romat2022.ro
- F. B. Marin, **Marin M.**, Gurau G., Gurau C., *GPS-denied geo-localisation using visual odometry for drone navigation*, INTERNATIONAL CONFERENCE ON MATERIALS SCIENCE & ENGINEERING DECEMBER 8-9, 2020, UgalMat, GALATI, ROMANIA, 2020. https://ugalmat.ugal.ro/images/2020/UGALMAT_2020_PROGRAMME.pdf.
- **M. MARIN**, F. B. MARIN, *Ants identification using convolutional neural networks*, INTERNATIONAL CONFERENCE ON MATERIALS SCIENCE & ENGINEERING DECEMBER 8-9, 2020, UgalMat, GALATI, ROMANIA, 2020. https://ugalmat.ugal.ro/images/2020/UGALMAT_2020_PROGRAMME.pdf
- F. B. Marin, **Marin M.**, Gurau G., Gurau C., *Drone identification using computer vision based on deep learning algorithm*, INTERNATIONAL CONFERENCE ON MATERIALS SCIENCE & ENGINEERING DECEMBER 8-9, 2020, UgalMat, GALATI, ROMANIA, 2020. https://ugalmat.ugal.ro/images/2020/UGALMAT_2020_PROGRAMME.pdf
- G. Gurău, C. Gurău, P. Alexandru, **M. Marin**, F. Marin, *Improving Properties Of A New Implantable Gum Metal By Cold Rolling*, THE FIFTH EDITION OF THE INTERNATIONAL CONFERENCE “NEW TRENDS IN ENVIRONMENTAL AND MATERIALS ENGINEERING” TEME 2019 23 rd -25 th of October 2019 Galați, Romania, 2019.
- http://www.teme.ugal.ro/Program_COMPLET_TEME_2019.pdf
- **M. MARIN**, F. B. MARIN *Enhancing The Corrosion Resistance In Some Iron-Based P/M Materials By Applying A Heat Treatment*, THE FIFTH EDITION OF THE INTERNATIONAL CONFERENCE “NEW TRENDS IN ENVIRONMENTAL AND MATERIALS ENGINEERING” TEME 2019 23 rd -25 th of October 2019 Galați, Romania
- http://www.teme.ugal.ro/Program_COMPLET_TEME_2019.pdf
- **M. MARIN**, F. B. MARIN, *Effect Of Thermal Treatments On Dimensional Precision And Mechanical Properties In Sintered Iron-Based P/M Materials*, THE FIFTH EDITION OF THE INTERNATIONAL CONFERENCE “NEW TRENDS IN ENVIRONMENTAL AND MATERIALS ENGINEERING” TEME 2019 23 rd -25 th of October 2019 Galați, Romania
- http://www.teme.ugal.ro/Program_COMPLET_TEME_2019.pdf
- **M. MARIN**, F. B. MARIN, Carmela GURAU, Gheorghe GURAU *Experimental And Prediction Of Micro Hardness Profile In Sintered Iron-Based Materials By Using Artificial Neural Network*, THE FIFTH EDITION OF THE INTERNATIONAL CONFERENCE “NEW TRENDS IN ENVIRONMENTAL AND MATERIALS ENGINEERING” TEME 2019 23 rd -25 th of October 2019 Galați, Romania . http://www.teme.ugal.ro/Program_COMPLET_TEME_2019.pdf
- F. B. MARIN, **Mihaela MARIN**, Gheorghe GURAU, Carmela GURAU, *Machine Vision System For Plant Classification Using Svm (Support Vector Machine) For Intelligent Spray Control System*, THE FIFTH EDITION OF THE INTERNATIONAL CONFERENCE “NEW TRENDS IN ENVIRONMENTAL AND MATERIALS ENGINEERING” TEME 2019 23 rd -25 th of October 2019 Galați, Romania . http://www.teme.ugal.ro/Program_COMPLET_TEME_2019.pdf
- Gurau G, C. Gurau , P. Alexandru, M. Marin, **F. Marin**, *Stimulus responsive Ti based alloy for orthopedics*, "MATERIALE AVANASATE ȘI TEHNOLOGII INOVATIVE", 10 decembrie 2019, Galați, Romania. http://ugal.ro/files/cercetare/2019/Evenimente_stiintifice_11_2019_211119.pdf
- Gurau, G. Gurau , F. Marin, P. Alexandru, **M. Marin** *Severe plastic deformation on steel by rolling and HSHPT*, , "MATERIALE AVANASATE ȘI TEHNOLOGII INOVATIVE", 10 decembrie 2019, Galați, Romania. http://ugal.ro/files/cercetare/2019/Evenimente_stiintifice_11_2019_211119.pdf.
- C. Gurau, G. Gurau, P. Alexandru, **M. Marin**, F. Marin, V. Basliu *A new look at nanostructured Mg biomaterials*, , "MATERIALE AVANASATE ȘI TEHNOLOGII INOVATIVE", 10 decembrie 2019, Galați, Romania. http://ugal.ro/files/cercetare/2019/Evenimente_stiintifice_11_2019_211119.pdf
- F.B. MARIN, C.V. SOLOMON, **M. MARIN**, *Quantitative image analysis in some iron powder metallurgy materials using computer vision technique*, , UGALMAT 2018, 8th International Conference on Material Science & Engineering, October 11 - 13, 2018 Galați, Romania. Organized by Department of Material Science and Engineering, Centre of Nanostructures and Functional Materials (CNMF) Faculty of Engineering, “Dunarea de Jos” University of Galati, Romania, 2018. <http://ugalmat.ugal.ro/BOOK%20OF%20ABSTRACT-UGALMAT2018%20.pdf>
- F.B. MARIN, **M. MARIN** *Bearing failure prediction using audio signal analysis based on SVM algorithms*, , UGALMAT 2018, 8th International Conference on Material Science & Engineering, October 11 - 13, 2018 Galați, Romania. Organized by Department of Material Science and Engineering, Centre of Nanostructures and Functional Materials (CNMF) Faculty of Engineering, “Dunarea de Jos” University of Galati, Romania. <http://ugalmat.ugal.ro/BOOK%20OF%20ABSTRACT-UGALMAT2018%20.pdf>
- **M. MARIN**, F. B. MARIN, *Quantitative image analysis in some iron powder metallurgy materials using computer vision technique*, , UGALMAT 2018, 8th International Conference on Material Science & Engineering, October 11 - 13, 2018 Galați, Romania. Organized by

Department of Material Science and Engineering, Centre of Nanostructures and Functional Materials (CNMF) Faculty of Engineering, "Dunarea de Jos" University of Galati, Romania. <http://ugalmat.ugal.ro/BOOK%20OF%20ABSTRACT-UGALMAT2018%20.pdf>

- O. Potecașu, F. Potecașu, **M. Marin**, **F. B. Marin** and F. Chicoș, *The Influence of the Deformation Degree on the Mechanical Properties and Microstructures of the Blanks Obtained by Tube and Wire Drawing* - 7th Conference on Material Science & Engineering UGALMAT 2016, Advanced Materials Research Vol. 1143, Book - Nanotechnologies and Advanced Materials, Edited by Viorica Mușat, Florentina Potecașu, Radu Tamara, Gheorghe Gurău, ISBN: 978-3-0357-1069-4, Electronically available at <http://www.scientific.net>, pag 85- 91. Conference Organizers: Academy of Technical Sciences of Romania (ASTR), Romanian Chemical Society, The General Association of Engineers in Romania (A.G.I.R.) <http://www.ugalmat.ugal.ro/Poster/FINAL%20PROGRAMME%20UgalMat2016.pdf>
- Potecașu, **M. Marin**, O. Potecașu and F. B. Marin, *Influence of the Iron Oxide Phases in Steam Oxidation on the Mechanical Properties and Abrasive Wear of Sintered Iron Materials* - 7th Conference on Material Science & Engineering UGALMAT 2016, Advanced Materials Research Vol. 1143, Book - Nanotechnologies and Advanced Materials, Edited by Viorica Mușat, Florentina Potecașu, Radu Tamara, Gheorghe Gurău, ISBN: 978-3-0357-1069-4, Electronically available at <http://www.scientific.net>, pag 91- 96. Conference Organizers: Academy of Technical Sciences of Romania (ASTR), Romanian Chemical Society, The General Association of Engineers in Romania (A.G.I.R.). <http://www.ugalmat.ugal.ro/Poster/FINAL%20PROGRAMME%20UgalMat2016.pdf>.
- **M. Marin**, F. Potecașu, O. Potecașu and F. B. Marin, *Influence of the Pore Characteristics on Mechanical Properties and Abrasive Wear of Sintered Iron-Based Alloys Subjected to a Thermochemical Treatment* - 7th Conference on Material Science & Engineering UGALMAT 2016, Advanced Materials Research Vol. 1143, Book - Nanotechnologies and Advanced Materials, Edited by Viorica Mușat, Florentina Potecașu, Radu Tamara, Gheorghe Gurău, ISBN: 978-3-0357-1069-4, Electronically available at <http://www.scientific.net>, pag 97- 102. Conference Organizers: Academy of Technical Sciences of Romania (ASTR), Romanian Chemical Society, The General Association of Engineers in Romania (A.G.I.R.) <http://www.ugalmat.ugal.ro/Poster/FINAL%20PROGRAMME%20UgalMat2016.pdf>.
- **M. Marin**, F. Potecașu, O. Potecașu and F. B. Marin, *Image Analysis Software for Porosity Measurements in Some Powder Metallurgy Alloys* — 7th Conference on Material Science & Engineering UGALMAT 2016, Advanced Materials Research Vol. 1143, Book - Nanotechnologies and Advanced Materials, Edited by Viorica Mușat, Florentina Potecașu, Radu Tamara, Gheorghe Gurău, ISBN: 978-3-0357-1069-4, Electronically available at <http://www.scientific.net>, pag 103- 107. Conference Organizers: Academy of Technical Sciences of Romania (ASTR), Romanian Chemical Society, The General Association of Engineers in Romania (A.G.I.R.). <http://www.ugalmat.ugal.ro/Poster/FINAL%20PROGRAMME%20UgalMat2016.pdf>.
- F. B. Marin, F. Potecașu, **M. Marin** and A. Petrica, *Automatic Grain Size Determination in Microstructures Using Computer Vision Algorithm Based on Support Vector Machine (SVM)* - 7th Conference on Material Science & Engineering UGALMAT 2016, Advanced Materials Research Vol. 1143, Book - Nanotechnologies and Advanced Materials, Edited by Viorica Mușat, Florentina Potecașu, Radu Tamara, Gheorghe Gurău, ISBN: 978-3-0357-1069-4, Electronically available at <http://www.scientific.net>, pag 194- 199. Conference Organizers: Academy of Technical Sciences of Romania (ASTR), Romanian Chemical Society, The General Association of Engineers in Romania (A.G.I.R.). <http://www.ugalmat.ugal.ro/Poster/FINAL%20PROGRAMME%20UgalMat2016.pdf>

D. Granturi/ contracte de cercetare:

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