

Universitatea Tehnică din Cluj-Napoca
Facultatea de Inginerie Electrică
Departamentul Mașini și Acționări Electrice

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LISTA LUCRĂRILOR ȘTIINȚIFICE PUBLICATE

A. Articole științifice indexate ISI

1. **Serban FM**, Stoeniu CE, Cristea C, The Analysis of Government Expenditures in the European Union, PROBLEMY EKOROZWOJU, 15 (2), pp. 143-151, 2020, WOS:000541798600015.

<https://www.webofscience.com/wos/woscc/full-record/WOS:000541798600015>

2. **Serban FM**, Grozav S, Ceclan V, Turcu, A. Artificial Neural Networks Model for Springback Prediction in the Bending Operations, SO TEHNICKI VJESNIK-TECHNICAL GAZETTE, 27 (3), pp. 868-873, 2020, WOS:000541512300024.

<https://www.webofscience.com/wos/woscc/full-record/WOS:000541512300024>

3. Cristea C, Cristea M, Birou I, Pica CS, Tirnovan RA, **Serban FM**, Stoeniu CE, TECHNO-ECONOMIC ANALYSIS OF A GRID-CONNECTED RESIDENTIAL PHOTOVOLTAIC SYSTEM: A ROMANIAN CASE STUDY, ACTA TECHNICA NAPOCENSIS SERIES-APPLIED MATHEMATICS MECHANICS AND ENGINEERING, 62 (4), pp. 543-550, 2019, WOS:000501579000004.

<https://www.webofscience.com/wos/woscc/full-record/WOS:000501579000004>

4. Cristea C, Cristea M, Birou I, Onaca C, **Serban F**, AN ANALYTIC HIERARCHY PROCESS APPROACH FOR THE CONCRETE BATCHING PLANT SELECTION, PERFORMANCE MANAGEMENT OR MANAGEMENT PERFORMANCE?, Review of Management and Economic Engineering International Management Conference, 6th Review of Management and Economic Engineering International Management Conference, SEP 20-22, 2018, Cluj Napoca, ROMANIA, WOS:000471723700016.

<https://www.webofscience.com/wos/woscc/full-record/WOS:000471723700016>

5. Cristea C, Stoenoiu CE, Cristea M, Birou I, **Serban F**, THE EFFECT OF FINANCIAL LEVERAGE ON DIVIDEND POLICY: EVIDENCE FROM AN EMERGING MARKET, PERFORMANCE MANAGEMENT OR MANAGEMENT PERFORMANCE?, Review of Management and Economic Engineering International Management Conference, 6th Review of Management and Economic Engineering International Management Conference, SEP 20-22, 2018, Cluj Napoca, WOS:000471723700028.

<https://www.webofscience.com/wos/woscc/full-record/WOS:000471723700028>

6. **Serban FM**, Balc N, Achimas G, Cristea C, Research concerning the springback prediction in the bending operations, INTERDISCIPLINARY RESEARCH IN ENGINEERING: STEPS TOWARDS BREAKTHROUGH INNOVATION FOR SUSTAINABLE DEVELOPMENT, Advanced Engineering Forum, Conference on Interdisciplinary Research in Engineering Steps towards Breakthrough Innovation for Sustainable Development (INTERIN 2013), FEB 25-MAR 01, 2013, Cluj Napoca, ROMANIA, WOS:000323184000055.

<https://www.webofscience.com/wos/woscc/full-record/WOS:000323184000055>

7. Ceclan VA, Achimas G, Lazarescu L, **Groze F**, Influence of the internal pressure on the change of the wall thickness in the case of tubes subjected to bending, ANNALS OF DAAAM FOR 2007 & PROCEEDINGS OF THE 18TH INTERNATIONAL DAAAM SYMPOSIUM: INTELLIGENT MANUFACTURING & AUTOMATION: FOCUS ON CREATIVITY, RESPONSIBILITY, AND ETHICS OF ENGINEERS, 18th International Symposium of the Danube-Adria-Association-for-Automation-and-Manufacturing, OCT 24-27, 2007, Zadar, CROATIA, WOS:000252067400067.

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8. **Groze FM**, Achimas G, Lazarescu L, Ceclan V, Artificial intelligence application in the bending process, ANNALS OF DAAAM FOR 2007 & PROCEEDINGS OF THE 18TH INTERNATIONAL DAAAM SYMPOSIUM: INTELLIGENT MANUFACTURING & AUTOMATION: FOCUS ON CREATIVITY, RESPONSIBILITY, AND ETHICS OF ENGINEERS, 18th International Symposium of the Danube-Adria-Association-for-Automation-and-Manufacturing, OCT 24-27, 2007, Zadar, CROATIA, WOS:000252067400154.

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B. Articole științifice indexate BDI

1. C. Cristea, M. Cristea, R.-A. Tirnovan, I. Birou, C. E. Stoenoiu, **F.M. Șerban**, "Performance analysis of grid-connected rooftop solar photovoltaic systems using different photovoltaic technologies: a case study in Romania," *2021 International Conference on Electromechanical and Energy Systems (SIELMEN)*, 2021, pp. 310-314, doi: 10.1109/SIELMEN53755.2021.9600338. [IEEE Xplore]

<https://ieeexplore.ieee.org/document/9600338>

2. Cristea C., Cristea M., **Șerban F.M.**, Făgărășan C., Stoenoiu C.E., Productivity assessment of the Romanian construction industry using Malmquist Productivity Index, Fascicle of Management and Technological Engineering, Vol. XXX, 2021. [ProQuest]

<https://www.proquest.com/docview/2561948568?pq-origsite=gscholar&fromopenview=true>

3. Stoenoiu C.E., **Șerban F.M.**, Cristea C., The variation of the turnover and its effect on the exploitation risk, Fascicle of Management and Technological Engineering, Vol. XXX, 2021/2. [ProQuest]

<https://www.proquest.com/docview/2561945908/B143BC27926F4E16PQ/1?accountid=87692>

4. Stoenoiu C.E., Cristea C., **Șerban F.M.**, The Effect of the Internationalization of the Markets in the European Union Through the Added Value, The Journal of Applied Business and Economics, Vol. 23, Issue 2, 2021, pp. 96-107. [ProQuest]

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5. STOENOIU C.E., CRISTEA C, **ȘERBAN F. M.**, Foreign investments in the economy of Eastern European countries, Revista Economica, Vol. 73, Issue 1, 2021, pp. 101-113. [EBSCO]

<https://web.s.ebscohost.com/abstract?direct=true&profile=ehost&scope=site&authtype=crawler&jrnl=15826260&AN=150532799&h=0KNhmvTPMK0ge6AxHuLQ7I2eb246MfbyETHFxxM34rS0i%2bGhwttzB8nQ5PoTO%2bFKwfnveB5qOrgnM3FUWM%2bnFQ%3d%3d&crl=c&resultNs=AdminWebAuth&resultLocal=ErrCrlNoProfile&crlhashurl=login.aspx%3fdirect%3dtrue%26profile%3dehost%26scope%3dsite%26authtype%3dcrawler%26jrnl%3d15826260%26AN%3d150532799>

6. STOENOIU C.E., BĂLAN M.C, CRISTEA C., **ȘERBAN F.M**, Evolution of renewable energy consumption in the EU, Renewable energy in European countries, retrospective analysis, IOP Conference Series: Earth and Environmental Science, Volume 664, The 7th Conference of the

Sustainable Solutions for Energy and Environment 21-24 October 2020, Bucharest, Romania.
[ProQuest]

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8. **Florica Mioara Șerban**, Ciprian Cristea, Emilia Sabău, Vasile Ceclan, Glad Coțiu, Application of fuzzy expert system in deep drawing of cylindrical cups, Acta Technica Napocensis, Series: Applied Mathematics and Mechanics, Vol. 56, Issue I pag. 205-210, ISSN 1221 – 5872, , March, 2013 <https://atna-mam.utcluj.ro/index.php/Acta/article/view/446> [Index Copernicus]

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9. Emilia Sabău, Nicolae Bâlc, Paul Bere, **Florica Șerban**, The influence of reinforced degree on the mechanical characteristics in case of composite materials plates reinforced with fiber glass, Acta Technica Napocensis Series: Applied Mathematics and Mechanics Vol. 56, Issue I, pag. 201-204, ISSN 1221 – 5872, March, 2013, <https://atna-mam.utcluj.ro/index.php/Acta/article/view/445> [Index Copernicus]

10. Florica Mioara Șerban/Numerical simulation and analysis of the deep-drawing processes, Acta Technica Napocensis, Series: Applied Mathematics and Mechanics, Vol.55, No 4, pag. 917-922, ISSN 1221 – 5872, 2012, <https://atna-mam.utcluj.ro/index.php/Acta/article/view/381> [Index Copernicus]

11. Florica Mioara ȘERBAN, Nicolae BÂLC, Gheorghe ACHIMAȘ, Research on the free cylindrical bending process of metallic sheets, Acta Technica Napocensis, Series: Applied Mathematics and Mechanics Vol 54, No 2 (2011): <https://atna-mam.utcluj.ro/index.php/Acta/article/view/320> [Index Copernicus]

12. Achimaș Gheorghe, **Groze Florica**, Lăzărescu Lucian, Finite Element Simulation of the V Bending Process of Sheet Metals, Academic Journal of Manufacturing Engineering, Editura Politehnica din Timișoara Volumul 4, Numarul 4 / 2006, pagini 6-12, ISSN: 1583-7904. [BDI]

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https://uefiscdi.gov.ro/UserFiles/File/politica%20stiintei/reviste_cat_B_06.pdf

13. Achimas Gheorghe, **Groze Florica**, Lazarescu Lucian, Using Neural Networks in Sheet Metal Blanking Processes, Academic Journal of Manufacturing Engineering, Editura Politehnica din Timișoara Volumul 4, Numarul 1 / 2006, pagini 6-11, ISSN: 1583-7904. [BDI]

C. Articole științifice neindexate

1. **Șerban F.M.**, Cristea C., Stoenoiu C.E., Market concentration in Romanian insurance industry, Fascicle of Management and Technological Engineering, Volume XXX, 2021/2.
<https://imt.uoradea.ro/auo.fmte/files-2021->

[v2/32_Florica%20Mioara%20Serban_Market%20concentration%20in%20Romanian%20insurance%20industry.pdf](https://imt.uoradea.ro/auo.fmte/files-2021-v2/32_Florica%20Mioara%20Serban_Market%20concentration%20in%20Romanian%20insurance%20industry.pdf)

2. STOENOIU C.E., CRISTEA C, **ȘERBAN F. M.**, ICT Evolution in Eastern Europe countries, Proceedings of the 7th International Management Conference: From Management of Crisis to Management in Time of Crisis, September 17-19, Cluj-Napoca, Romania, 2020, pp. 478-484.

3. STOENOIU C.E., CRISTEA C, **ȘERBAN F. M.**, Analysis of the economic performance of the countries in Europe, Proceedings of the 7th International Management Conference: From Management of Crisis to Management in Time of Crisis, September 17-19, Cluj-Napoca, Romania, 2020, pp. 598-605.

4. CRISTEA C., CRISTEA M., STOENOIU C.E., BIROU I., **ȘERBAN F. M.**, Assessing the efficiency of the Romanian construction industry companies based on data envelopment analysis, Proceedings of the 7th International Management Conference: From Management of Crisis to Management in Time of Crisis, September 17-19, Cluj-Napoca, Romania, 2020, pp. 193-197.

5. **Florica Mioara Șerban**, Sorin Grozav, Vasile Ceclan, Ciprian Cristea/Fuzzy expert system for springback prediction in the bending operations, 14th International Conference „Automation in Production Planning and Manufacturing“, Zilina, Slovacia, aprilie, 2013, pag. 162-167, ISBN 978-80-89276-41-7.

6. **Florica Mioara Șerban**, Nicolae Bâlc, Gheorghe Achimaș, Laurențiu Stoica/Finite element simulation of the free cylindrical bending process of metallic sheets, XXV. microCAD

International Scientific Conference, Miskolc, Ungaria, martie, 2011, pag. 153-158, ISBN 978-963-661-965-7; http://www.uni-miskolc.hu/~microcad/also_eng.html

7. **Florica Groze**, Gheorghe Achimaş, Lucian Lăzărescu, Vasile Ceclan, Using artificial neural networks in the V bending process, Buletinul Institutului Politehnic din Iaşi, Tomul LIII(LVII), Secţia Construcţiei de Maşini, 2007, pag. 401, ISSN 1582-6392.

8. **Florica Groze**, Gheorghe Achimaş, Lucian Lăzărescu, Vasile Ceclan, Artificial Neural Networks – Principles and applications, (Proceedings)The 5th International Conference of Advanced Manufacturing Technologies ICAMaT 2007, pag.39, ISSN 1843-3162.

9. Vasile Adrian Ceclan, Gheorghe Achimas, Lucian Lazarescu, **Florica Mioara Groze**, Finite element simulation of tubes press bending process, 7th International multidisciplinary conference , Baia Mare, Romania, may 17-18, 2007, pag. 93-98, ISSN-1224-3264.

10. **Florica Mioara Groze**, Gheorghe Achimas, Lucian Lazarescu, Vasile Adrian Ceclan, Springback prediction of the V bending process using finite element simulation, 7th International multidisciplinary conference , Baia Mare, Romania, may 17-18, 2007, pag. 259-266, ISSN-1224-3264.

11. Gheorghe Achimas, **Florica Groze**, Lucian Lazarescu, Vasile Ceclan, Theoretical aspects regarding the springback prediction for sheet metals subjected to V bending, microcad 2007, International Scientific Conference, 22-23 march 2007, pag. 3-8, ISBN 978-963-661-753-0.

12. Gheorghe Achimas, Vasile Adrian Ceclan, Lucian Lazarescu, **Florica Groze**, Experimental research concerning the influence of the bending radius on the wall thickness of the bent pipes, microcad 2007, International Scientific Conference, 22-23 march 2007, pag.9-12, ISBN 978-963-661-753-0.

13. Popescu, D., Achimaş, Gh., Bulgaru, M., **Groze, F.**, Elimination of the random components of the measuring uncertainty on tactile MMC, Academic Journal of Manufacturing Engineering, Editura Politehnica din Timişoara Volume 5, Number 4/2007, pag. 58-64

14. Lazarescu Lucian, Achimas Gheorghe, **Groze Florica**, Studies on Wall Thickness Change of Bent Tubes Using Finite Element Simulation, Buletinul Institutului Politehnic din Iaşi, Secţia Construcţiei de Maşini, Editura Universităţii Tehnice „Gh. Asachi” din Iaşi, Tomul LII (LVI), Fascicula 5B / 2006, pagini 529-534, ISSN: 1011-2855.

15. ACHIMAȘ, Gh., LĂZĂRESCU, L., GROZAV, S., **GROZE(căs. Șerban), F.**, Experimental research regarding ovality of bend tubes, microCAD 2005, International Scientific Conference, Miskolc, p. 1-4, ISBN 963 661 659 0.
16. ACHIMAȘ, Gh., LĂZĂRESCU, L., OGNEAN, D., **GROZE, F.**, Factori de influență asupra ovalizării secțiunii transversale a țevelor îndoite, Conferința Științifică "Tehnomus" ediția a XIII-a, Editura Universității din Suceava 2005, p. 67-70, ISBN 973-666-154-7.
17. LĂZĂRESCU, L., ACHIMAȘ, Gh., OGNEAN, D., **GROZE, F.**, Prediction of quality parameters in the tube bending process using artificial neural networks(Predicția parametrilor de calitate în procesul de îndoire a țevelor utilizând rețele neuronale artificiale), Conferința Internațională de Sisteme de Fabricație ICMS Iași, Buletinul Institutului Politehnic din Iași , Tomul LI(LV) , 2005, p.229-234, ISSN 1582-6392.
18. **GROZE, F.**, ACHIMAȘ, Gh., LĂZĂRESCU, L., OGNEAN, D., Applications of neural networks in cold forming(Aplicații ale rețelelor neuronale în domeniul deformărilor plastice la rece), Conferința Internațională de Sisteme de Fabricație ICMS Iași, Buletinul Institutului Politehnic din Iași , Tomul LI(LV) , 2005, p.235-240, ISSN 1582-6392.
19. MUREȘAN, C., **GROZE, F.**, PĂCURAR, R., The utilization of CBN shape grinding wheel for spur gears (Utilizarea CBN la pietrele de rectificat roți dințate cu dinți înclinați), Conferința Internațională de Sisteme de Fabricație ICMS Iași, Buletinul Institutului Politehnic din Iași , Tomul LI(LV) , 2005, p.121-126, ISSN 1582-6392.
20. ISPAS, V., **GROZE, F.**, Modelarea geometrică a roboților seriali cu trei grade de libertate de tip TRT, a V-a Conferință națională "Profesorul Dorin Pavel"Sebeș 2005, Știință și inginerie vol.7, p 409-418, Editura AGIR, București 2005, ISBN 973-8130-82-4, 973-720-015-2.
21. Lăzărescu, L., Achimaș, Gh., Grozav, S., **Groze, F.**, Finite element simulation of rotary draw tube bending process, pag.263-266, The 7th International MTem Conference October 2005, ISBN 973-9087-83-3.
22. ACHIMAȘ, Gh., GROZAV, S., **GROZE, F.**, Prediction of some quality parameters of stamping cold forming products using neural networks, pag. 19-22 The 7th International MTem Conference October 2005, ISBN 973-9087-83-3.
23. ISPAS, V., **GROZE, F.**, The kinematic model of the TRT1 modular serial robot, Acta Technica Napocensis, nr.48, vol. III, p.141-148, 2005, ISSN 1221-5872.

24. ISPAS, V., **GROZE, F.**, The dynamic model of the TRT1 modular serial industrial robot, Acta Technica Napocensis, nr.48, vol. III, p.149-154, 2005, ISSN 1221-5872.
25. ACHIMAȘ, Gh., **GROZE, F.**, LĂZĂRESCU, L., Using neural networks in sheet metal blanking processes, Academic Journal of manufacturing engineering , Vol.3, No. 2/2005.

D. Teza de doctorat

Șerban F. M., Modele neuronale artificiale și logica fuzzy utilizate în operațiile de presare la rece, Teză de doctorat (Conducător științific: Prof. dr. ing. Gheorghe ACHIMAȘ), Universitatea Tehnică din Cluj-Napoca, Susținere publică 06.12.2008.

E. Cărți

STOENOIU Carmen Elena, **ȘERBAN Florica Mioara**, Micro- și Macroeconomie – aplicații practice, Editura U.T. Press, Cluj-Napoca, 2019, ISBN 978-606-737-384-4.

<https://biblioteca.utcluj.ro/files/editura/Lista%20cartilor%20aparute%20la%20UTPRESS%20in%20perioada%201995-2020.pdf>

Materiale didactice

Autor a 3 lucrări de laborator nou introduse, redactate și realizate practic pentru disciplina Bani, bănci, piețe de capital, atestate de către directorul de departament

1. Sistemul rezervelor minime obligatorii. Puterea de cumpărare și paritatea puterii de cumpărare
2. Instrumente ale pieței monetare. Instrumente utilizate în plățile internaționale
3. Piața de capital

F. Proiecte de cercetare / contracte cu terți / burse postdoctorale

1. Contract cu terți nr.7012/15.04.2019 încheiat cu firma ”Unlimited Consult SRL-Ciceu Mihăiești Bistrița Năsăud”, cu titlul ”Analiza diagnostic a activității și măsuri de creștere a performanței firmei”, perioada 15.04.2019-30.05.2019, valoare 25.200 lei, director proiect Stoenoiu Carmen Elena, membru;

2. Contract de tip CEEEX nr. 24/2005, cu titlul "Sisteme inteligente de prelucrare prin deformare plastică la rece în construcție modulară-SINTDEF", subcontract nr. 2/2005 (între UTC-N și ULB Sibiu), perioada 2005-2007, valoare 93.417 lei, director proiect, prof. dr. ing. Achimaș Gheorghe, membru.

3. Contract de tip PN II, nr. 71-011/2007, cu titlul "Tehnologie integrată de evaluare și compensare a erorilor sistemelor de prelucrare", perioada 2007-2010, director proiect, prof. dr. ing. Achimaș Gheorghe, membru.

4. Cercetător postdoctoral în cadrul proiectului (POSDRU/89/1.5/S/52603): "Dezvoltarea și susținerea de programe postdoctorale multidisciplinare în domenii tehnice prioritare ale strategiei naționale de cercetare - dezvoltare - inovare" 4D-POSTDOC. Intervalul de derulare al contractului: Iulie 2010-Mai 2013, Director Proiect, Prof. dr. ing. Aurel Vlaicu

Data

12.01.2022

Asist. dr. ing.ec. Florica Mioara ȘERBAN

