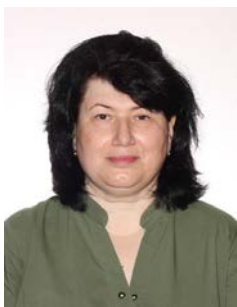



INFORMAȚII PERSONALE

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LOCUL DE MUNCA PENTRU
CARE SE CANDIDEAZĂ
POZIȚIA

Conferențiar Dr. Ing./ Inginerie Mecanică

- 2005 - Prezent **Conferențiar dr. ing.**
 Universitatea „Dunărea de Jos” din Galați, Str. Domnească, Nr. 111, Galați 800201, România,
<http://www.ugal.ro>; <http://www.ing.ugal.ro>

 - Susținerea de ore de curs/seminar/laborator, Îndrumarea de lucrări de licență/disertație
Tipul sau sectorul de activitate Transfer de căldură în prelucrări mecanice, Inginerie Concurențială, Benchmarking, Managementul cercetării și dezvoltării, Managementul proiectelor
- 2000 - 2005 **Șef de lucrări dr. ing.**
 Universitatea „Dunărea de Jos” din Galați, Str. Domnească, Nr. 111, Galați 800201, România,
<http://www.ugal.ro>; <http://www.ing.ugal.ro>

 - Susținerea de ore de curs/seminar/laborator, Îndrumarea de lucrări de licență/disertație
Tipul sau sectorul de activitate Fenomene termice în procese de prelucrare, Modelarea numerica a fenomenelor termice în procese mecanice și tehnologice, Bazele prelucrării mecanice a materialelor, Inginerie Concurențială, Benchmarking, Managementul cercetării și dezvoltării
- 1994 - 2000 **Asistent**
 Universitatea „Dunărea de Jos” din Galați, Str. Domnească, Nr. 111, Galați 800201, România,
<http://www.ugal.ro>; <http://www.ing.ugal.ro>

 - Susținerea de ore de curs/seminar/laborator/proiect, Îndrumarea de lucrări de licență/disertație
Tipul sau sectorul de activitate Bazele aşchierii și generării suprafețelor, Proiectarea sculelor aşchietoare, Tehnologia presării la rece, Programarea calculatoarelor
- 1990 - 1994 **Preparator**
 Universitatea „Dunărea de Jos” din Galați, Str. Domnească, Nr. 111, Galați 800201, România,
<http://www.ugal.ro>; <http://www.ing.ugal.ro>

 - Susținerea de ore de seminar/laborator/proiect
Tipul sau sectorul de activitate Bazele aşchierii și generării suprafețelor, Proiectarea sculelor aşchietoare, Tehnologia presării la rece, Programarea calculatoarelor
- 1995-1999 **Doctor inginer**
 Duke University, Durham, North Carolina, S.U.A.

 - Cursuri. Ex.: Heat Transfer, Fluid Mechanics, Quantum Mechanics
 - Abilități: desfășurarea de activități de cercetare științifică
- 1995-1990 **Inginer mecanic**
 Universitatea din Galați, Facultatea de Mecanică, specializarea „Mașini Hidro-Pneumatice”, România

EXPERIENȚA PROFESIONALĂ
EDUCAȚIE ȘI FORMARE

- Cursuri. Ex.: Algebră, Analiză matematică, Fizică, Chimie, Termotehnică, Mecanică, Mecanica fluidelor, Bazele aşchierii și generării suprafețelor, Tehnologia construcțiilor de mașini, Acționări hidro-pneumatice, Tehnologia presării la rece, Scule aşchietoare.
- Abilități. Ex.: Posibilitatea de a acumula cunoștințe în domeniu, de a realiza proiecte pe baza acestor cunoștințe, de a interpreta datele experimentale, de a realiza activități de cercetare care să combine cunoștințele tehnice cu tehnica modernă de calcul.

Limba(i) maternă(e) Română

Competențe de comunicare ▪ O bună capacitate de comunicare obținută în urma activității profesionale desfășurate

Competențe organizaționale/manageriale ▪ Leadership-ul, spiritul organizatoric și de management al unei echipe manifestate permanent în activitatea profesională, în conducerea activităților de cercetare.

Competențe dobândite la locul de muncă ▪ Pot lucra singură și desfășura activități de laborator pe mașini-unelte ca: strung, freză, mașini de burghiat, raboteză, etc.
▪ Pot desfășura lucrări de laborator pe standuri cu rol teoretic care au ca scop măsurarea forței de aşchiere, a procesului de formare a aşchiilor la rabotare și strunjire, a forței și momentului la burghiere, a procesului de broșare, honuire, etc.

Competențe informatice ▪ Cunoștințe avansate de programare în limbajele C++, Fortran, Basic.
▪ Lucrul facil cu soft-uri comerciale.

Alte competențe ▪ Competența de a înțelege rapid un domeniu de cercetare sau studiu complet nou prin adunarea de date și sintetizarea lor
▪ Capacitatea de a prezenta sinteza obținută sub forma de cursuri, prelegeri.
▪ Capacitatea de a efectua activități de cercetare având ca punct de plecare cunoștințele acumulate.

COMPETENTE PERSONALE

Publicații ▪ Autor/co-autor a peste 60 de lucrări științifice și 8 cărți.

▪ Lista cu lucrările de cercetare și cărțile la care sunt autor/co-autor.

INFORMATII SUPLIMENTARE

ANEXE

PUBLICATII

A. Lucrari stiintifice publicate in reviste internationale

- M. Neagu**, "The stability analysis of a linearly mass stratified fluid near a vertical impermeable wall of constant temperature and mass flux", Journal of Multidisciplinary Engineering Science and Technology (JMEST) ISSN: 2458-9403 Vol. 10, Issue 2, February – 2023, JMEST42354158, pag. 15804-15811, 2023.
- M. Neagu**, "The Succession of Heat and Mass Driven Natural Convection Regimes Along a Vertical Impermeable Wall", European Journal of Natural Sciences and Medicine, Vol. 5, Issue 1, pag. 9-26, 2022.
- M. Neagu**, "Heat/Mass driven natural convection of air near a boundary of constant mass flux and temperature ", Journal of Multidisciplinary Engineering Science and Technology (JMEST) ISSN: 2458-9403 Vol. 8, Issue 11, November – 2021, pag. 14724-14735, 2021.
- M. Neagu**, "Natural Convection Near a Vertical Wall of Constant Mass Flux and Temperature Situated in a Mass Stratified Fluid", The 8th International Conference on Advanced Concepts in Mechanical Engineering, IOP Conference Series: Materials Science and Engineering, 444 (2018), 082020 doi: 10.1088/1757-899X/444/8/082020, 2018, 1-14.
- M. Neagu**, " Free Convection in a Darcy Thermally Stratified Porous Medium That Embeds a Vertical Wall of Constant Heat Flux and Concentration", World Academy of Science and Technology, International Science Index 109, International Journal of Mechanical, Aerospace, Industrial, Mechatronic and Manufacturing Engineering, 10(1), 2016, pag. 65-74., scholar.waset.org/1999.8/10003370; ICHTA 2016 : 18th International Conference on Heat Transfer and Applications, London, United Kingdom, 2016.
- M. Neagu**, "Free Convective Heat and Mass Transfer Induced by a Constant Heat and Mass Fluxes Vertical Wavy Wall in a non-Darcy Double Stratified Porous Medium", International Journal of Heat and Mass Transfer, 54, 2011, 2310-2318.
- L.A. Rocha, **M. Neagu**, A. Bejan, R.S. Cherry, "Convection with Phase Change During gas Formation From Methane Hydrates via Depressurization of Porous Layers", Journal of Porous Media, 4(4), 2001, 283-295.
- M. Neagu**, A. Bejan, "Constructal Placement of High-Conductivity Inserts in a Slab: Optimal Design of "Roughness", Transactions of the ASME, 123(4), 2001, 1184-1189.
- M. Neagu**, A. Bejan, "Constructal Theory Three Networks of Constant Thermal Resistance", Journal of Applied Physics, 86(12), 1999, 1136-1144.
- M. Neagu**, A. Bejan, "Three Dimensional Tree Constructs of "Constant" Thermal Resistance", Journal of Applied Physics, 86(2), 1999, 7107-7115.
- G. Chen, **M. Neagu**, "Thermal Conductivity and Heat Transfer in Superlattices", Applied Physics Letters, 71(19), 1997, 2761-2763.
- N. Oancea, **M. Neagu**, "The Profile Designing of Disc Tools Processing Ruled Helical Surfaces", Tehnica Italiana, Revista di Ingegneria (2), 1992, 95-103.

B. Lucrari stiintifice prezentate la conferinte international

- M. Neagu**, "Natural Convection Heat Transfer from a Horizontal Circular Cylinder with Constant Surface Heat Flux", HT2009: Proceedings of the ASME Summer Heat Transfer Conference, San Francisco, U.S.A., Vol. 2, 2009, 627-632.
- M. Neagu**, "The Control of Natural Convective Heat Transfer from a Horizontal Circular Cylinder", Colloque Francophone sur L'energie-Environment-Economie & Thermodynamique (Cofret), Nantes, France, 2008.
- M. Neagu**, "The Design of Wires and Fibers Extrusion Systems", The 2nd International Conference "Computing and Solutions in Manufacturing Engineering", COSME 2008, Brasov, published in Academic Journal of Manufacturing Engineering, No. 2, 2008, 76-82.
- M. Neagu, M. Nedelcu**, "Numerical Modeling of Wires and Fibers Extrusion", Journal of Proceedings of the International Conference on Manufacturing Systems, ICMAS 2008, Bucharest, Romania, Vol.3, 2008, 287-290.
- M. Neagu**, "Two-Dimensional Numerical Modeling of a Packed Porous Layer During Sintering", Proceedings of the Int. Conference on Manufacturing Systems, ICMAS 2004, Bucharest, Romania, 2004, 525-529.
- M. Neagu**, "The Dimensions of a Packed Porous Layer During Sintering", Romanian non-Conventional Technologies Review, No.2, 2003, 75-79, The XI-th International Conference on non-Conventional Technologies, Sibiu, Romania, 2003.
- M. Neagu, Al. Epureanu**, "Mathematical Model for the Study of Thermal Loads on Discs During Grinding Process", The Scientific Session "Modern Technologies, Quality, Restructuring", Chişinău, Moldavia, 2001, 284-287.
- N. Oancea, **M. Neagu**, C. Fetecau, "A New Method for Tools Profiling for Helical Surface Generation", Xth International Cutting Tools Conference, October, Miskolc, Hungary, 2000, 89-98.
- G. Chen, **M. Neagu**, "Thermal Conductivity and Heat Transfer in Superlattices", Thermo-Electric Materials – New Directions and Approaches, M.R.S. Proceedings, Pittsburgh, Pennsylvania, U.S.A., Vol. 478, 1997, 85-90.
- N. Oancea, **M. Neagu**, J. Miron, "Algorithm for Profiling of the Tools which Manufacture Cylindrical Helical Surfaces", VIIIth International Conference on Tools, Miskolc, Hungary, 1993, 444-449.
- N. Oancea, **M. Neagu**, "Algorithm for Profiling of the Tools which Work by Rolling", VIIIth International Conference on Tools, Miskolc, Hungary, 1993, 450-455.
- N. Oancea, M. Jora, **M. Neagu**, "A New Method in Profiling of the Tools which Work by Wrapping Up", The 24th Israel Conference on Mechanical Engineering, Technion City, Haifa, Israel, 1992.

C. Lucrari stiintifice publicate in reviste nationale

- M. Neagu**, "A product development using the robust design concept and the Taguchi method", The Annals of "Dunarea de Jos" University of Galati, Fascicle V, Technologies in Mechanical Engineering, ISSN 1221-4566, 2020. (accepted for publication)
- M. Neagu**, "A product development process and its management. An engineering student laboratory", The Annals of "Dunarea de Jos" University of Galati, Fascicle V, Technologies in Mechanical Engineering, ISSN 1221-4566, 2020. (accepted for publication)
- M. Neagu**, "The Re-Design of an Industrial Product Using the Modern Technology", Annals of "Dunarea de Jos" University of Galati, Fascicle I. Economics and Applied Informatics, no. 3/2019, 2019, 60-71.
- M. Neagu**, "Experimental Data Analysis Using "Minitab" Software. The Turning Force Analysis", Annals of „Dunarea de Jos” University of Galati. Fascicle V, Technologies in Mechanical Engineering, ISSN 1221-4566, 2668-4888 (ONLINE), 2019.
- V. Nestian, S. Istrate, M. Neagu**, "A Company Improvement Analysis using the AHP/ANP Methods and the Modern Technology", Annals of "Dunarea de Jos" University of Galati, Fascicle I. Economics and Applied Informatics, no. 1/2019, 2019, 62-77.
- M. Neagu**, "The Thermal Analysis of the Electroerosion Process", The Annals of "Dunarea de Jos" University of Galati, Fascicle V, Technologies in Mechanical Engineering, ISSN 1221-4566, 2018, 5-8.
- M. Neagu**, "The Measurement of the Thermal Diffusivity of Solids", The Annals of "Dunarea de Jos" University of Galati, Fascicle V, Technologies in Mechanical Engineering, ISSN 1221-4566, 2018, 69-71.
- S. Istrate, V. Nestian, M. Neagu**, "A Company Improvement Analysis using the AHP and the ANP Methods", Annals of "Dunarea de Jos" University of Galati, Fascicle I. Economics and Applied Informatics, no. 2/2018, 2018, 47-58,.
- M. Neagu**, "Natural Convection in the Boundary Layer of A Constant Temperature and Concentration Vertical Wall Embedded in a Darcy Doubly Stratified Porous Medium ", The Annals of "Dunarea de Jos" University of Galati, Fascicle V, Technologies in Mechanical Engineering, ISSN 1221-4566, 2017, 5-12.
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- M. Neagu, V. Marin**, "The analysis of the customer request processing in a financial institution", Annals of "Dunarea de Jos" University of Galati, Fascicle I. Economics and Applied Informatics, No1/2013, ISSN 1584-0409, page 5-12, 2013.

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- Neagu, M.**, "The Design of Wires and Fibers Extrusion Systems", The Annals of "Dunarea de Jos" University of Galati, Fascicle V, Technologies in Mechanical Engineering, ISSN 1221-4566, 2008, 38-42.
- M. Neagu**, "The Control of Natural Convection Heat Transfer from a Horizontal Circular Cylinder", The Annals of "Dunarea de Jos" University of Galati, Fascicle V, Technologies in Mechanical Engineering, 2008, 55-60.
- M. Neagu**, "The Design of Wires and Fibers Extrusion Systems", The 2nd International Conference "Computing and Solutions in Manufacturing Engineering", Academic Journal of Manufacturing Engineering, No. 2, 2008, 76-82.
- M. Neagu**, "Hydrodynamic Lubrication of Linear Hydraulic Engines", The Annals of "Dunarea de Jos" University of Galati, Fascicle V, Technologies in Mechanical Engineering, 2007, 25-31.
- M. Neagu**, "Study of Temperature Influence on Hydrodynamic Lubrication at Linear Hydraulic Engines", Academic Journal of Manufacturing Engineering, No.3, 2007, 90-94.
- M. Neagu**, "Cutting Tool Temperature in Cylindrical Turning", The Annals of "Dunarea de Jos" University of Galati, Fascicle V, Technologies in Mechanical Engineering, 2006, 25-31.
- M. Neagu, M. Dodu**, "Study on the Transient Conjugated Heat Transfer in Developing Laminar Pipe Flow", The Annals of "Dunarea de Jos" University of Galati, Fascicle V, Technologies in Mechanical Engineering, 2005, 11-15.
- M. Neagu**, "Active Control of Convection in a Melted Material Layer. I. Convection in an Infinite Fluid Layer", The Annals of "Dunarea de Jos" University of Galati, Fascicle V, Technologies in Mechanical Engineering, 2005, 39-43.
- M. Neagu**, "Active Control of Convection in a Melted Material Layer. II. Convection with a Finite Lower Boundary", The Annals of "Dunarea de Jos" University of Galati, Fascicle V, Technologies in Mechanical Engineering, 2005, 43-49.
- M. Neagu, A. Dinicuta, E. Banea**, "Study of Remelting Process During the Droplet-Based Solid Freeform Fabrication", The Annals of "Dunarea de Jos" University of Galati, Fascicle V, Technologies in Mechanical Engineering, 2004, 35-40.
- M. Neagu**, "Numerical Modeling of the Sintering Process", The Annals of "Dunarea de Jos" University of Galati, Fascicle V, Technologies in Mechanical Engineering, 2004, 67-72.
- M. Neagu, E. Banea**, "Study of Droplet-Base Solid Freeform Fabrication", "Iasi Polytechnic Institute Bulletin", L(LIV), Fascicle V, 2004, 347-350.
- M. Neagu**, "Heat Transfer Stability in Materials Processing. Finite Difference/Galerkin Method", The Annals of "Dunarea de Jos" University of Galati, XX(XXVI), Fascicle V, 2003, 5-12.
- M. Neagu**, "The Dimensions of a Packed Porous Layer During Sintering", The Annals of "Dunarea de Jos" University of Galati XX(XXVI), Fascicle V, 2003, 38-43.
- M. Neagu**, "The Dimensions of a Packed Porous Layer During Sintering", "Non-Conventional Technologies Review" No.2, 2003, 75-78.

- M. Neagu**, "On the Surface Layer Thickness of Plane Grinded Workpieces", The Annals of "Dunarea de Jos" University of Galati XX(XXV), Fascicle V, 2002, 16-20.
- M. Neagu**, "Thermal Field of Grinded Plane Workpieces", "Iasi Polytechnic Institute Bulletin", Vol. XLVIII(LII), Section V, 2002, 157-160.
- M. Neagu**, G. Frumușanu, "Finite Difference/Galerkin Solution for a Melted Material Layer Temperature Field", The Annals of "Dunarea de Jos" University of Galati XIX(XIV), 2001, 61-65.
- N. Oancea, **M. Neagu**, C. Fetecau, "The Trajectories Method, a new Method of Tools Profiling that Work by Wrapping up. I. Surfaces Associated with Axoids in Rolling", "Constructia de masini", București, (52), 2000, 29-34.
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- N. Oancea, **M. Neagu**, C. Fetecau, "Modeling of Helical Surface Generation at Axy-Symmetric Tools Profiling", " Iasi Polytechnic Institute Bulletin ", Vol. XLVI(L), 2000, 81-86.
- M. Neagu**, "Thermal Field and Structural State Evolution of the Band in Continue Casting", The Annals of "Dunărea de Jos" University of Galati XVII(XXII), Fascicle V, 1999, 5-9.
- N. Oancea, **M. Neagu**, "Cutting Scheme at Generation with Rack-Tools", The Annals of "Dunarea de Jos" University of Galati XI(XVI), Fascicle V, 1993, 5-13.
- N. Oancea, M. Dima, **M. Neagu**, "Cutting Scheme - Criterion for Rolling Radius Determination", The Annals of "Dunărea de Jos" University of Galati XII (XVII), Fascicle V, 1994, 1-10.
- N. Oancea, **M. Neagu**, "Reverse Generation at Processing with Tools Associated with Axoids in Rolling. II Applications", The Annals of "Dunarea de Jos" University of Galati IX(XIV), Fascicle V, 1991, 37-43.

D. Lucrari stiintifice prezentate la conferinte nationale

- M. Neagu**, "Study of Hydrodynamic Lubrication Between the Cylinder Liner and the Piston Ring at Linear Hydraulic Engines", XIV-International Conference, New Technologies and Products in Machine Manufacturing Technologies, TEHNOMUS XIV, Suceava, Romania, 2007, 147-153.
- M. Neagu**, "Study of Temperature Influence on Hydrodynamic Lubrication at Linear Hydraulic Engines", Proceedings of the 3rd International Conference on Manufacturing Science and Education- MSE 2007, Sibiu, Romania, 2007, 57-58.
- M. Neagu**, "On the in-Plane Thermal Conductivity of Si/Ge Superlattice Structures", The XIII-th Thermodynamics National Conference with International Participation, Resita, Romania, 2003, 9-14.
- M. Neagu**, "The Surface Layer Thickness of Grinded Workpieces", The 5th National Conference with International Participation OPROTEH 2003, Bacau, Romania, 2003.
- M. Neagu**, A. Bejan, "Constant Thermal Resistance Tree Networks", The XI-th National Conference on Thermodynamics, Galati, Romania, 2001, 199-206.

- M. Neagu**, "Active Control of Heat Transfer Stability in Materials Processing", The 11-th International Conference on Modeling, Simulation and System's Identification, SIMSIS-11, Galati, Romania, 2001, 315-321.
- M. Neagu**, "Numerical Modeling of the Temperature Field in a Melted Material Layer", National Conference OPROTEH-2001, Bacau, Romania, TSTM7-Romanian Academy, 2001, 291-296.
- M. Neagu**, C. Rusu, "Contributions on the Cutting Zone Modeling", National Conference TEHNOMUS X, Suceava, Romania, 1999, 197-204.
- N. Oancea, **M. Neagu**, "The Generation Process Modeling at Rack-Tool Cutting", National Conference TEHNOMUS VIII, Suceava, Romania, 1995, 38-45.
- N. Oancea, C. Fetecau, **M. Neagu**, "Numerical Modeling of Surfaces Generation by Wrapping Up", National Conference with International Participation "PRASIC BRASOV'94", The University "Transilvania" Brasov, Romania, "Mechanical Transmissions", 1994, 13-20.
- M. Neagu**, M. Teodorescu, "Computer Assisted Design of Technological Equipment for Cold Plastic Deformation", The III-rd National Conference on Technologies and Modern Design Methods in Mechanical Engineering, Vol. I, Craiova, Romania, 1994, 225-230.
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- M. Neagu**, J.L. Chenot, M. Teodorescu, "Aspects of Cutting-Edge Generation at Orthogonal Cutting Process", 8th National Conference on Modern Technologies of Working, Galati, Romania, 1993.
- N. Oancea, **M. Neagu**, "Reverse Generation at the Cutting Process Associated with Axoids in Rolling. II Applications", 8th National Conference on Modern Technologies of Working, Galați, Romania, October, 1993.
- M. Teodorescu, **M. Neagu**, "The Importance of Chip Minimum Thickness Determination in the Turning Process", 8th National Conference on Modern Manufacturing Technologies, Galati, România, 1993.
- N. Oancea, **M. Neagu**, "The Profile Design of Disc-Tools Processing Ruled Helical Surfaces", Modern Mechanical Design Conference, Bucharest, Romania, 1991, 18-20.
- M. Neagu**, N. Oancea, "General Calculation Method of Second Order Tools Profile for Helical Tools Manufacturing", National Conference TEHNOMUS VI, Suceava, Romania, 1991, 22-29.

Cărți

- M. Neagu**, "Ingineria Concurențială. Lucrări de laborator", Editura Tehnopress, Iași, România, 2017
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- M. Neagu**, "Inginerie Concurențială", Editura Tehnopress, Iași, România, 2012
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- N. Oancea, **M. Neagu** and C. Arbureanu, "Numerical Methods for Tools Profiling" (in Romanian Language), 1992, Galati University Press, Romania.

Contracte de cercetare

Research contract director, contract 470/2006, "A Study of Hydrodynamic Lubrication Between the Cylinder and the Piston Ring at Linear Hydraulic Engines", Beneficiary: MEHID S.A., Galati, Romania.

Data

14.03.2023

Semnătura

Maria Neagu