CURRICULUM VITAE

DATE PERSONALE

Numele	**BANABIC**
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Locul nasterii	Ciceu-Giurgesti, Bistrita- Nasaud
Adresa	Univ. Tehnica din Cluj-Napoca Facultatea de Constructii de Masini Dept. de Ingineria Fabricatiei B-dul Muncii, 103-105, Cluj-Napoca, ROMANIA Tel.0264-401733, Fax.0264-415603 e.mail:[redacted]@tcm.utcluj.ro

FORMARE PROFESIONALA

1971-1975	Liceul Andrei Muresanu, Dej (Clasa Speciala de matematica)
1975-1980	Institutul Politehnic din Cluj-Napoca Facultatea de Mecanica, Sectia TCM
1980	Diploma de inginer mecanic
1989-1993	Doctorand în specialitatea Deformari Plastice
nov.1993	Sustinerea tezei de doctorat cu titlul"**Cercetari privind deformabilitatea tablelor metalice subtiri**"
oct.-dec. 1990 oct.-nov. 1991 oct.1992-ian.1993	Stagii de specializare la Universitatea Tehnica din Varsovia, Polonia (Prof. *Z. Marciniak*)
mai-iul.1993 dec.1995	Stagii de specializare la Ecole des Mines de Paris, CEMEF Sophia Antipolis (Prof. *J.L. Chenot*)
nov.-dec.1994 nov.-dec.1995	Stagii de specializare la Universitatea din Stuttgart, Institut fur Umformtechnik (*Prof. K. Siegert*)

ACTIVITATEA PROFESIONALA

1980-1984	**Inginer proiectant** la Intreprinderea "Mecanica" din Sibiu si Fabrica de masini de rectificat "Napomar" din Cluj-Napoca
1984-1996	**Asistent universitar, Sef de lucrari** si **Conferentiar** la Institutul Politehnic din Cluj-Napoca, Catedra TCM
Din 1996	**Profesor** la Universitatea Tehnica din Cluj-Napoca, Catedra TCM
1994-1996	**Director** al Departamentului de Cercetare Stiintifica al CCSTTII din Universitatea Tehnica din Cluj-Napoca
Din 2000	**Director** al Centrului de Cercetari in Domeniul in Tehnologia Deformarii Tablelor (CERTETA) din cadrul Universitatii Tehnice din Cluj Napoca (acreditat de CNCSIS din 2002)
Din 1999-	**Conducator de doctorat** in Stiinte Ingineresti
1996-1998	**Cercetator invitat** la Institutul de Deformari Plastice, Universitatea din Stuttgart, Germania, in cadrul unei burse Humboldt
Iul-Oct. 1999	**Cercetator invitat** la Institutul de Deformari Plastice, Universitatea din Stuttgart
Iun-Iul.1999	**Cercetator invitat** la Universitatea Paris Nord, Franta
Ian-Mar 2000	**Profesor invitat** la Universitatea Franche-Comte, Besancon, Franta

Iun-Iul 2000	**Profesor invitat** la Universitatea Paris Nord, Franta
Nov. 2001	**Profesor invitat** la Universitatea Tehnica din Chemnitz, Germania
Iulie 2002	**Profesor invitat** la RWTH Aachen, Germania
2000-2004	**Profesor** la Universitatile din Stuttgart, Germania si Universitatea Tehnica din Cluj-Napoca
Dec. 2006	**Profesor invitat** la Universitatea Ulster din Belfast, UK
Iun-Iul 2007	[redacted] la Universitatea din Metz, Franta
Sept 2010	**Profesor invitat** la Universitatea Tehnica de Stat din Moscova, Rusia
Sept. 2009	**Profesor invitat** la Scoala de vara **SMART 2009**, Univ. din Palermo, Italia
Sept. 2011	**Profesor invitat** la Scoala de vara **SMART 2011**, Univ. din Erlangen, Germania
Sept 2013	**Profesor invitat** la Scoala de vara de la Universitatea Tehnica de Stat din Moscova, Rusia
Oct 2013	[redacted] la Scoala de vara **SMART 2013**, Univ. din Palermo, Italia
Dec 2013	**Profesor invitat** la Universitatea Warwick, Anglia
Nov 2018	**Profesor invitat** la Universitatea din Palermo, Italia
Nov-Dec 2019	**Profesor invitat** la IIT Warangal (Programul GIAN)
	Membru in 16 comisii de doctorat din strainatate (Franta, Portugalia, Norvegia, Germania, Olanda, Iran si India)
Ian 2021-	**Honorary professor** Xian University, China
2006-2014	**Membru** al Comisiei de Stiinte Ingineresti a CNCSIS, respectiv CNCS
2006-2014	**Membru** al Comisiei Prezidentiale pentru Analiza si Elaborarea Politicilor din Domeniul Educatiei si Cercetarii
2011-2016	**Membru** al Colegiului Consultativ al Cercetarii, Dezvoltarii si Inovarii (CCCDI) al ANCS
2010-2012 si din 2020-	**Vicepresedinte** al Consiliului Naţional de Atestare a Titlurilor, Diplomelor şi Certificatelor Universitare (CNATDCU)
din 2012	**Vicepresedinte** al Consiliului Cercetarii al Universitatii Tehnice din Cluj Napoca
din 2012	**Director** al Scolii Doctorale a Facultatii de Constructii de Masini din cadrul Universitatii Tehnice din Cluj Napoca

ACTIVITATEA STIINTIFICA

1990-2012	**Participant** activ la peste 100 conferinte internationale in: Germania, Anglia, Franta, Portugalia, Norvegia, Belgia, Austria, Italia, SUA, China, Grecia, Corea de Sud, Japonia, India, Australia, Ungaria, Polonia, Cehia, Bosnia, Bulgaria, Slovenia, Serbia, Spania, Romania.
2004-2009	**Coordonator** al grupului de cercetare in proiectul «Virtual Inteligent Forging» in cadrul FP6
2004-2008	**Director** al proiectului de cercetare ***Sheet metal formability for special metal forming processes (superplastic forming and hydroforming at very high pressure)***, finantat de Fundatia Humboldt
2004-2008	**Co-Director** al proiectului de cercetare ***Improvement of performances of formability models for sheet metals using new constitutive laws***, finantat de Swiss National Foundation.
2009-2012	**Coordonator** grup cercetare in proiectul FP7 **Virtual Factory Framework**
2010-2013	**Director** al proiectului PCCE **Modelarea continua - de la micro la macro scara - a materialelor avansate in fabricatia virtuala**

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7. **Banabic D.**, Balan T., Comsa D.S., Closed-form solution for bulging through elliptical dies, J. of Materials Proc. Techn., Elsevier, Amsterdam, 115(2001), p.83-86 (IF=2.041).
8. **Banabic D.**, Balan T., Comsa D.S., Analysis of local loads on the draw die profile with regard to wear using the FEM and experimental investigations, J. of Materials Proc. Techn., Elsevier, Amsterdam, 115(2001), p.153-158 (IF=2.041).
9. **Banabic D.**, T. Kuwabara, T. Balan, D. S. Comsa, Evaluation of an anisotropic yield criterion, Proceedings of the Romanian Academy, 2(2001), No.3, p.17-21 (IF=1.115).
10. **D. Banabic**, O. Cazacu, F. Barlat, D.S. Comsa, S. Wagner, K. Siegert, Recent anisotropic yield criteria for sheet metals, Proceedings of the Romanian Academy, 3(2002), No. 3, p.91-99 (IF=1.115).
11. Butuc M.C., **Banabic D.**, Barata da Rocha A., Gracio J.J., Ferreira Duarte J., Jurco P., Comsa D.S, The performance of YLD96 and BBC2000 yield functions in forming limit prediction, J. of Materials Proc. Techn., Elsevier, 125-126(2002), p.281-286 (IF=2.041).
12. **Banabic**, O. Cazacu, F. Barlat, D.S. Comsa, S. Wagner, K. Siegert, Description of the anisotropic behaviour of AA3103-0 aluminum alloy using two recent yield criteria, J. de Physique, Paris,105(2003), 297-304.
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14. **Banabic D.**, Kuwabara T., Balan T., Comsa D.S., Julean D., Non -Quadratic yield criterion for orthotropic sheet metals under plane-stress conditions, Int. J. Mechanical Sciences, 45(2003), Nr. 5, p. 797-811 (IF=2.061).
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16. **Banabic,** Anisotropy and formability of AA5182-0 aluminium alloy sheets, Annales of CIRP, 53(2004), p. 219-222 (IF=2.541).
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20. **D. Banabic,** H. Aretz, D.S. Comsa, L. Paraianu, An improved analytical description of orthotropy in metallic sheets, International Journal of Plasticity, 21(2005), Nr.3, p.493-512 (IF=5.971).
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23. Comsa D.S., **Banabic D.**, Numerical simulation of sheet metal forming processes using a new yield criterion, Key Engineering Materials, 344 (2007), 833-840 .
24. **D. Banabic**, M. Vos, Modelling of the Forming Limit Band –A new Method to Increase the Robustness in the Simulation of Sheet Metal Forming Processes, Annals of CIRP, 56(2007), p. 249-252 (IF=2.541).
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limit strains, Steel Research International 79 (2008), p. 39-46 (IF=1.023).

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55. L. Părăianu, S.D. Comsa, **D. Banabic**, Influence of the identification procedure of the yield criterion on the thickness prediction of the square cup, Key Engineering Materials, 611-612 (2014), 70-75
56. S. Bruschi , T. Altan, **D. Banabic**, P.F. Bariani, A. Brosius, J. Cao, A. Ghiotti, M. Khraisheh, M. Merklein, E. Tekkaya, Testing and Modeling of Material Behavior and Formability in Sheet Metal Forming Processes, Annales of CIRP, 63(2014), 727-749 [redacted].
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GTN damage model, J. Materials Proc. Technol., 216 (2015) 472–483 ([redacted]).

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62. L. Lăzărescu, D.S. Comșa, **D. Banabic**, Predictive performances of the Marciniak-Kuczynski model and Modified Maximum Force Criterion, Key Engineering Materials, 651-653(2015), 96-101.
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66. D. Ionita, C. Gaina, M. Cristea, **D. Banabic**, Tailoring the hard domain cohesiveness in polyurethanes by interplay between the functionality and the content of chain extender, Royal Society of Chemistry Advances, 3(2015), 76852-76861 (IF=3.84).
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69. Y. Barzegar, R. Jafari Nedoushan, A. Razazzade, M. Farzin, **D. Banabic**, Finite element modeling of damage evolution in cold pilgering process, Proceedings of the Romanian Academy, Series A, 17(2016), 267-276 (IF=1.735).
70. Alirezaiee, M., Jafari Nedoushan, R., **Banabic, D.,** Improvement of product thickness distribution in gas pressure forming of a hemispherical part, Proceedings of the Romanian Academy, Series A, 17(2016), 245-252 (IF=1.735).
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72. A. Kami, B. Mollaei Dariani, D. S. Comsa, **D. Banabic**, A. Sadough Vanini, M. Liewald, An experimental study on the formability of a vibration damping sandwich sheet (Bondal), Proceedings of the Romanian Academy, Series A, 18(2017), 281-290 (IF=1.735).
73. Chun-Qing Hu, Hong-Wu Song, Hai Liu, **D. Banabic**, Shi-Hong Zhang, Ming Cheng, Shuai-Feng Chen, A statistical model for contact orientation and anisotropy in granular assemblies, Proceedings of the Romanian Academy, Series A, 19(2018), Nr.2, 175-183 (IF=1.735).
74. Y. Ma, Y. Xu, S. Zhang, **D. Banabic**, A.El-Aty, D. Chen, M. Cheng, H. Song, A.I. Pokrovsky, G. Chen, Investigation on formability enhancement of 5A06 aluminium sheet by impact hydroforming, Annales of CIRP, 67(2018), 281-284 ([redacted])
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uniaxial tensile and hydraulic bulge tests, International Journal of Advanced Manufacturing Technology, (2018) (IF=2,209).

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81. Lucasz Madej, **Dorel Banabic**, Professor Zdzisław Marciniak—A life dedicated to metal forming, Journal of Materials Processing Technology, (2021) (IF=4.178)
82. Weihao Jiang, Wenlong Xie, Hongwu Song, Lazarescu Lucian, Shihong Zhang, **Dorel Banabic**, A modified thin-wall tube push-bending process with polyurethane mandrel, International Journal of Advanced Manufacturing Technology, 106(2020), 2509–2521. (IF=2,496).
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84. Johan Pilthammar, **Dorel Banabic**, Mats Sigvant, BBC05 with Non-Integer Exponent and Ambiguities in Nakajima Yield Surface Calibration, International Journal of Materials Forming, 13(2020) (IF=1,75)
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C.1 PUBLICATE IN REVISTE NECOTATE ISI

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9. **Banabic D.,** Tapalaga I.,Achimas Gh.,Iancau H.,Molnar G., Dezvoltarea cercetarilor experimentale asupra CLD,(partea II: Metode, mijloace si criterii de definire a CLD), In: Comunicarile primei Conferinte de tehnologii si utilaje pentru prelucrarea metalelor prin deformare plastica la rece, Sibiu, 1987, pag.123-129.
10. **Banabic D.,** Tapalaga I.,Achimas Gh.,Iancau H., Dezvoltarea cercetarilor asupra fenomenului de ondulare a flansei si a presiunii de retinere la ambutisare.In:

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15. **Banabic D.,** Tapalaga I.,Comsa D.S., Contributii privind determinarea teoretica a presiunii de retinere a flansei pieselor ambutisate, Conferinaa a VI-a de Utilaje si procese de prelucrare la rece , Timisoara, 6-8 mai 1989, pag.213-218.
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Membru in Comitetele stiintifice a peste 100 de conferinte internationale: NUMISHEET'99, Besancon-Franta ; NUMISHEET 2002, Seul-Corea de Sud ; NUMISHEET 2005, Detroit-USA; NUMISHEET 2008, Interlaken-Elvetia; NUMISHEET-2011, Seoul, Korea; NUMISHEET-2014, Melbourne, Australia; NUMISHEET-2016, Bristol, UK; NUMISHEET-2018 Tokyo, Japan; NUMISHEET-2021, Toronto, Canada; NUMIFORM 2007, Porto, Portugalia; NUMIFORM 2010, Gyongiu-Corea de Sud ; NUMIFORM 2013, Shenyang, China; NUMIFORM 2016, Troys, France; NUMIFORM 2019, New Hampshire, US ; ESAFORM 2001, Liege-Belgia; ESAFORM 2002, Cracovia-Polonia; ESAFORM 2003, Salerno-Italia; ESAFORM 2004, Torndheim-Norvegia; ESAFORM 2005 (Presedintele comitetului de organizare), Cluj Napoca, Romania; ESAFORM 2006, Glasgow, UK; ESAFORM 2007, Zaragoza, Spania; ESAFORM 2008, Lyon, Franta; ESAFORM 2009, Enshede, Netherlands; ESAFORM 2010, Brescia, Italy; ESAFORM 2011, Belfast, UK; ESAFORM 2012, Erlangen, Germania; ESAFORM 2013, Aveiro, Portugalia; ESAFORM 2014, Helsinki, Finland; ESAFORM 2015, Graz, Austria; ESAFORM 2016, Nantes, France; ESAFORM 2017, Dublin, Ireland; ESAFORM 2018 Palermo, Italia; ESAFORM 2019 Vitoria, Spania; ESAFORM 2020, Coburg, Germania; ESAFORM 2021, Liege, Belgia; ESAFORM 2022, Braga, Portugal; EUROMECH 2002, Liege-Belgia; SIA 2007, Caen-Franta ; ICTP 2007, Gycongju-Corea de Sud ; ICTP 2011, Aachen, Germany ; ICTP 2014, Nagoya, Japan; ICTP 2017, Cambridge, UK ; ICTP 2021, Columbus, US; ICTMP 2010, Nisa, Franta ; ICIT'99, ICIT 2001, Maribor, Slovenia ; AMME'97, AMME'98, AMME'99, AMME 2000, AMME2001, AMME2002, AMME2003, AMME2005 Gliwice-Poland ; DEMI '98, DEMI 2000 Banja Luka-Bosnia ; SMF 2007, Bombay, India; ICCMM 2011, Guwahati, India; KOMPLASTECH 2009, KOMPLASTECH 2011, KOMPLASTECH 2013, KOMPLASTECH 2015, KOMPLASTECH 2017, KOMPLASTECH 2019 Krakow, Poland; DIE-MOLDS 2009, Kusadasi, Turkey; DIE-MOLDS 2011, Ankara, Turkey; DIE-MOLDS 2013, Antalya, Turkey; DIE-MOLDS 2015, Turkey; SHEMET 2007, Palermo, Italia; SHEMET 2009, Birmingham, UK; SHEMET-2011, Leuven, Belgia: SHEMET-2013, Belfast, UK; SHEMET 2015, Erlangen, Germany; SHEMET 2017, Palermo, Italy; SHEMET 2019, Leuven, Belgia; SHEMET 2021, Erlangen, Germany; AEPA 2008, Daejon, Korea; AEPA 2010, Wuhan, China; AEPA 2012, Singapore; AEPA 2018 Jeju, Korea; ECCOMAS 2012, Aveiro, Portugalia; ICNFT 2012, Harbin, China; ICNFT 2018, Bremen, Germania; IDDRG 2012, Bombay, India; IDDRG 2013, Zurich, Elvetia; IDDRG 2014, Paris, Franta; IDDRG 2015, Shanghai, China; IDDRG 2016, Linz, Austria; IDDRG 2017, Munchen, Germania; IDDRG 2018 Waterloo, Canada; IDDRG 2019, Eindhoven, Olanda; IDDRG 2020, Busan, Korea; IDDRG 2021, Stuttgart, Germany; CIRP-CMS-2016, Stuttgart, Germania; Metal Forming 2016, Krakow, Poland; Metal Forming 2018, Krakow, Poland; Metal Forming 2020, Krakow, Poland; Metal Forming 2010, Toyohashi, Japonia; ICAFT 2018 Chemnitz, Germania; Industrial Technology and Management (ICITM 2019), Cambridge, UK; Int. Conf. Computational Methods in Manufacturing, 2019, Guwahati, India; AEROSPATIAL 2018, Bucuresti, Romania; AEROSPATIAL 2020, Bucuresti, Romania; ModTech 2020, Eforie Nord, Romania; NewTech 2020, Bucegi, Romania; SISOM 2018, SISOM 2019, SISOM 2020, SISOM 2021, Bucuresti, Romania; MTeM2001, MTeM2003, MTeM2005, MTeM2007 MTeM2009, MTeM2011, MTeM2013, MTeM-2015, MTeM-2017, MTeM-2019, MTeM-2021 Cluj-Napoca; MSE 2003, MSE 2007, MSE-2009, MSE-2011, MSE-2013, MSE-2015, MSE-2017, MSE-2019, MSE-2021 Sibiu, Romania; ASTR 2009, Cluj Napoca, Romania (Co-presedinte al comitetului de organizare) ; SISOM 2019, SISOM 2020 , Bucuresti, Romania (Co-presedinte al comitetului de organizare) ; TPR2000 Cluj-Napoca, Romania (Presedintele comitetului de organizare).

MEMBRU IN ORGANIZATII STIINTIFICE

2012-2016	**Presedinte** al Asociatiei Europene de Deformarea Materialelor (ESAFORM*)* (www.esaform.org)
Din 1998	**Membru** al Asociatiei Europene de Deformarea Materialelor (ESAFORM)

26. Marciniak Z.,**Banabic D.**,Efectul vibratiilor asupra curbelor limita de deformare, Lucrarile sesiunii de comunicari stiintifice MTM'91,Cugir, Sept 1991, p.110-121.
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34. **D. Banabic**, Modelarea comportării materialelor în contextul fabricaţiei virtuale, SIMPOZION Actualitati si Perspective in Stiintele Tehnice, Zilele Academice Clujene, 27 Iunie 2006.
35. **D. Banabic,** Fabricaţia virtuala. Realizari si tendinte, Intilnirea anuala Clubului Humboldt Transilvania, Cluj Napoca, 15 Dec. 2006.
36. L. Paraianu, D.S. Comsa, **D. Banabic**, Accuracy estimation of anisotropic yield criteria, Proc. of the Conference "Excellence in research", Brasov, 24-26 Oct. 2007.
37. **D. Banabic**, Modelarea comportarii materialelor in fabricatia virtuala, Conferinta "Zilele Academice ale ASTR-10 ani de la infiintare", Bucuresti, 28-30 nov. 2007.
38. **D. Banabic,** Directii moderne de cercetare in ingineria productiei: fabricatia virtuala, Academia Romana, Bucuresti, 6 Feb. 2008.
39. **D. Banabic,** Cercetarea aplicata in domeniul ingineriei mecanice in Romania, Workshop-ul "Pentru excelenţă în ştiinţa românească", Centrul UNESCO, Bucuresti, 26 Martie 2008
40. **D. Banabic,** D.S. Comsa, L. Paraianu, Contribution of the CERTETA research centre in sheet metal forming simulation, Excellence research- A way to innovation-Conference, (Eds: Vasiliu N., Lanyi S.), Brasov, 2008, p.163.1-163.4.
41. **D. Banabic,** Tendinţe pe plan mondial privind cercetarea în domeniul tehnologiilor de fabricaţie, Conferinta "Zilele Academice ale ASTR", Cluj Napoca, 12 Nov. 2008, p.55-60.
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43. **Banabic D.**, The doctoral studies in Romania: a critical analysis, Proc. of the ASTR Conference, Iassy, 2009, p.223-229.
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46. L. Părăianu, S. Comşa, **D. Banabic**, Forming Limit Curves Predicted by a New Formulation of Hora's Criterion (MMFC), Seminar "Research Challenges for

Sustainable Development", Timişoara, 19-23 martie 2012

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49. Ionita D., Cristea M., Gaina C., **Banabic D.**, Comportamentul viscoelastic al unor retele poliuretanice cu reticulari fizice si chimice, Zilele Academice Iesene, A XXV-a Sesiune de comunicari stiintifice a Institutului de Chimie Macromoleculara Petru Poni, Iasi, 24-26 Sept. 2015.
50. **Banabic D.**, Digitizarea fabricaţiei: a patra revoluţie industrială, Proc of the ASTR Conference, Tirgu Mures, 6-7 Oct. 2016
51. **D. Banabic**, Industria şi universităţile tehnice româneşti în faţa sfidărilor mondiale, Conf. Educaţia Şi Cercetarea Românească, 23 martie 2017, Bucureşti
52. V. Axinciuc, **D. Banabic**, Evoluţia corpului tehnic din România din 1864 până în present, Conferinta Zilele Academiei de Ştiinţe Tehnice din România, 6-7 Octombrie 2017, Constanta

F BREVETE DE INVENTII

1. **Banabic D.**, Deacu L., Pop I., ***Electromagnet proportional***, Brevet de inventie, Nr.86601/26.03.1984.

G ALTE PUBLICATII

1. Dannenmann, E., **Banabic D.**, Hauesserman E., ***Forming limit curves. Experimental and theoretical determination,*** Twelwe-monthly progress report of the BRITE-EURAM Project "**Forming of new metallic materials**", Stuttgart, 1997.
2. Dannenmann, E., **Banabic D.**, Hauesserman E., ***Forming limit curves. Experimental and theoretical determination,*** Half-time report of the BRITE-EURAM Project "**Forming of new metallic materials**", Stuttgart, 1998.
3. **Banabic D.**, ***Formability assesment. Determination of the yiled loci and forming limit diagrams***, Report D6, Twelwe-monthly progress report of the BRITE-EURAM Project "**VIRFORM**", Stuttgart, 2001.
4. **Banabic, D.** ***Test of currents FEM models***, Report D7, Twelwe-monthly progress report of the BRITE-EURAM Project "**VIRFORM**", Stuttgart, 2001.
5. **Banabic, D.** ***Deep drawing tests using simple geometry and comparison to numerical simulations***, Report D10, Twelwe-monthly progress report of the BRITE-EURAM Project "**VIRFORM**", Stuttgart, 2001.
6. **Banabic D.** ***Deep drawing tests for complex forming geometry and comparison to numerical simulations***, Report D20, 24-monthly progress report of the BRITE-EURAM Project "**VIRFORM**", Stuttgart, 2002.
7. **Banabic D.** ***Bulge test simulation***, Report D15, 30-monthly progress report of the BRITE-EURAM Project "**VIRFORM**", Stuttgart, 2003.
8. **Banabic D.** ***Incorporation of new material models into numerical simulation code for bulging test and comparison to experiments,*** Report D21, 42-monthly progress report of the BRITE-EURAM Project "**VIRFORM**", Stuttgart, 2003.
9. **Banabic D.**, ***Complex parts, strain analysis, report on results including simulation results with state of art models and advanced models***, Report D30, 48-monthly progress report of the BRITE-EURAM Project "**VIRFORM**", Stuttgart, 2004.
10. Asboell, K., Furu T., **Banabic D. a.l. , *VIRFORM - Final Technical Report***, Final report of the BRITE-EURAM Project "**VIRFORM**", Trondheim, 2004.

11. **Banabic, D.,** ***Sheet metal formability for special metal forming processes (superplastic forming and hydroforming at very high pressure),*** Final report of the Av Humboldt Project, Stuttgart, 2008.
12. Hora P., **Banabic D.,** ***Improvement of performances of formability models for sheet metals using new constitutive laws,*** Final report of the SCOPES Project, Swiss National Foundation, Zurich, 2008.
13. **Banabic D., Evoluția tehnicii și tehnologiilor de la prima la a patra revoluție industrială și impactul lor social**, Discurs de recepție în Academia Română, 26 septembrie 2018.

MEMORIU DE ACTIVITATE

Candidatul a fost implicat într-o foarte intensă activitate de cercetare naţională şi internaţională, asa cum rezultă din lista proiectelor de cercetare pe care le-a coordonat în calitate de director de proiect sau în care a fost implicat ca cercetător. Candidatul a coordonat peste 25 proiecte de cercetare naţionale şi a fost implicat în 12 proiecte de cercetare internaţională (în calitate de cercetător invitat la universităţi din Franţa şi Germania). Această activitate a condus la obţinerea unor rezultate semnificative cu un puternic impact atât în comunitatea ştiinţifică cât şi industrială pe plan mondial. Principalele contribuţii ştiintifice aduse în domeniul în care lucrează şi recunoscute pe plan mondial sunt prezentate sintetic mai jos. Această recunoaştere rezultă atât din citările lucrărilor autorului (a se vedea lista de citări) cât şi din referinţele de la cercetători de prestigiu de la universităţi sau din industrie.

LISTA PROIECTELOR DE CERCETARE COORDONATE DE CANDIDAT

(ULTIMII 15 ANI)

PROIECTE INTERNE

1. 2006-2008 Cresterea performantelor simularii proceselor de deformare plastica in fabricatia virtuala prin utilizarea de modele constitutive noi, Programul Cercetare de Excelenta CEEX (Proiect de cercetare în sprijinul programelor post-doctorale)
2. 2006-2008 Platforma integrata pentru simularea proceselor de deformare in fabricatia virtual-VIRFAB, Programul Cercetare de Excelenta CEEX (Proiecte de cercetare complexe, M1)
3. 2007-2008 Modelarea stohastica a curbelor limita de deformare, un nou instrument in scopul cresterii robustetii simularii proceselor de deformare plastica a tablelor metalice, Contract CNCSIS-A.
4. 2007-2010 Modelarea curbelor limita de deformare, un nou instrument al fabricatiei virtuale in procesele de deformare a tablelor metalice, Programul PN II-IDEI.
5. 2008-2010 Modele avansate pentru descrierea anizotropiei si deformabilitatii tablelor metalice, PN II Resurse Umane, Proeict de Cercetare pentru Simulareau Revenirii in Tara (RP), Programul PN II-Resurse Umane

6. 2010-2013 Modelarea continua - de la micro la macro scara - a materialelor avansate in fabricatia virtuala, Proiect complex de cercetare exploratorie, Programul PN II-IDEI.

PROIECTE EXTERNE

1. 2004- 2008 Virtual Intelligent Forging, Excellence Network, Financed by European Community, Contract no. NMP2-CT-2004-507331.
2. 2005- 2008 Sheet metal formability for special metal forming processes (superplastic forming and hydroforming at very high pressure). Joint research project between Institute for Metal Forming Technology, Stuttgart University and CERTETA, Financed by Humboldt Foundation, Germany, Project No.: V-Fokoop-RUM/1036802, 2004
3. 2005- 2008 Improvement of performances of formability models for sheet metals using new constitutive laws. Joint research project between Institute for Virtual Fabrication, ETH Zurich and CERTETA, Financed by Swiss National Science Foundation, Switzerland, Project No.: IB7320-110974/1, 2005
4. 2005-2008 3D extension of the BBC2005 yield criterion, Financed by AutoForm Engineering GmbH, Switzerland.
5. 2009-2013 VFF Holistic, extensible, scalable and standard Virtual Factory Framework, Collaborative Project FP7 Program- Large-scale integrating project, NMP-2008-3.4-1.
6. 2012-2015 K2 Mobility – Sustainable Vehicle Technologies, Project with Virtual Vehicle GmbH Graz, Austria

PRINCIPALELE CONTRIBUTII IN DOMENIUL DE SPECIALITATE

1. Punerea in evidenta atit experimental cit si teoretic a solicitarii pulsatorii asupra curbelor limita de deformare
2. Utilizarea pentru prima data a criteriului de plasticitate a lui Hill din 1993 in modelarea unor procese de deformare a tablelor
3. Verificarea experimentala a criteriului Hill din 1993
4. Introducerea (in colaborare cu Prof. Pöhlandt si Prof. Lange de la Universitatea din Stuttgart, Germania) a conceptului de coeficient de anizotropie biaxiala.

5. Utilizarea coeficientului de anizotropie biaxiala in determinarea suprafetelor de curgere
6. Elaborarea unor modele analitice pentru umflarea hidrostatica
7. Introducerea unui criteriu de plasticitate (BBC2000) pentru medii ortotrope
8. Dezvoltarea criteriului BBC2000 in forma BBC2005 si BBC 2008
9. Elaborarea programului comercial de calcul al curbelor limita de deformare FORM-CERT
10. Elaborarea primului model teoretic al Benzilor Limita de Deformare
11. Analiza influentei presiunii hidrostatice asupra Curbelor Limita de Deformare
12. Implementarea criteriului BBC2005 in programul comercial de Element Finit AUTOFORM, utilizat de peste 95% din producatorii de autovehicole de pe plan mondial (in colaborare cu firma AUTOFORM, Zurich, Elvetia)
13. Colaborarea cu Institutul de Fabricatie Virtuala de la ETH Zurich pentru dezvoltarea modelului Hora de predictie a CLD
14. Colaborarea cu Catholic University of Leuven, Belgia, pentru cuplarea unui model de material bazat pe textura (Alamel) cu cel fenomenologic (BBC 2008), dezvoltat de autor.
15. Colaborarea cu firma RENAULT pentru implementarea criteriului BBC2005 in programele de simulare pentru procesele de deformarea ale tablelor utilizate de firma
16. Colaborarea cu firma VIRTUAL VEHICLE din Graz pentru dezvoltarea de modele avansate de predictie a Curbelor Limita de Deformare
17. Colaborarea la realizarea unui curs interactiv pe internet «ALUMATTER» (redactarea capitolului de Plasticitate si Anizotropie)
18. Contributia cu două capitole la prima enciclopedie de Ingineria Productiei editată de Springer in anul 2014: Encyclopaedia of Production Engineering.
19. Traducerea in limba chineză de către editura Science Press Beijing a Academiei de Stiinte din China a cărtii « Sheet Metal Forming Processes » (Springer, 2010), aceasta fiind prima carte de inginerie a unui autor roman tradusă in limba chineză.

Din 1999	**Membru** al Comitetului stiintific al Asociatiei Europene de Deformarea Materialelor (ESAFORM)
Din 2000	**Membru** al ***Consiliului Director*** al Asociatiei Europene de Deformarea Materialelor (ESAFORM) (www.esaform.org)
2000-2008	**Secretar** al Asociatiei Europene de Deformarea Materialelor (ESAFORM) (reales in 2002, 2004 si 2006)
2008-2012	**Vicepresedinte** al Asociatiei Europene de Deformarea Materialelor (ESAFORM)
Din 2013	**Membru titular** al ***Academiei de Stiinte Tehnice din Romania***, sectia de Stiinta si Ingineria Materialelor (corespondent din 2005) (www.astr.ro)
Din 2014	**Membru titular** al ***Academiei Internationale de Ingineria Productiei (CIRP)*** (corespondent din 2005) (www.cirp.net)
Din 2015	**Membru titular** al **Academiei Romane** (corespondent din anul 2009) (www.academiaromana.ro)
Din 2015	**Presedintele Sectiei de Stiinte Tehnice** a **Academiei Romane** (www.acad.ro/sectii/sectia08_tehnica/teh_presedinte.htm)
Din 2015	**Membru al Prezidiului Academiei Romane**
Din 2018	**Presedintele Diviziei de Istoria Tehnicii** a **CRIFST**
Din 2018	**Vicepresedinte** al **Comitetului Roman de Istoria si Filosofia Stiintei si Tehnicii (CRIFST)** al Academiei Romane

Evaluator pentru proiecte de cercetare pentru urmatoarele agentii:

The Research Council of Norway
German Research Foundation (DFG)
National Research Council Canada
Italian National Agency for the Evaluation of Universities and Research Institutes
Research Foundation Flanders (FWO), Belgium
Netherlands Organisation for Scientific Research (NWO)
New Eurasia Foundation, Russia
Science & Engineering Research Council, Singapore
Chile's Research Council
The Fundação para a Ciência e a Tecnologia, Portugal

Membru in Supervisor Board al centrului de excelenta in **Stiința Materialelor și Biomateriale** al Universitatii Tehnice din Gliwice, Polonia

Editor in Chief al Revistei **Proceedings of the Romanian Academy**, Editura Academiei Romane

Editor in Chief al Revistei **Romanian Journal of Technical Sciences–Applied Mechanics,** Editura Academiei Romane

Editor in Chief al **Buletinului Asociatiei Europene de Deformarea Materialelor** (ESAFORM)

Associate Editor al Revistei **International Journal of Material Forming,** Springer, Germania

Associate Editor al Revistei **International Journal of Forming Processes,** Hermes, Paris, Franta

Membru in Editorial Board al Revistei **Memoirs of the Scientific Sections of the Romanian Academy,** Editura Academici Romane.

Membru in Editorial Board al Revistei NOEMA, Editura Academici Romane.

Membru in Editorial Board al revistei **Forging & Stamping Technology,** Beijing, China

Membru in Editorial Board al revistei **Iranian Journal of Materials Forming,** Shiraz, Iran

Membru in Editorial Board al Revistei **Computed Method in Materials Science**, Polonia

Membru in Editorial Board al Revistei **Journal of Production Processes and Systems,** Ungaria

Membru in Editorial Board al Revistei **Forging and Stamping Production (Kuznecino Stampovocinoe Proizvosdvo)**, Moscova

Membru in Editorial Board al Revistei **Manufacturing Review**, EDP Science, Franta

PREMII si DISTINCTII

Premiul Traian Vuia al Academiei Romane pe anul 2002 pentru lucrarea "***Formability of Metallic Materials***"
Premiul Leonardo da Vinci pe anul 2006 al Comisiei Europene pentru programul de e-learning **ALUMATTER**
Medalia de bronz a Presedentiei Germaniei pe anul 2006 pentru programul de e-learning **ALUMATTER**
Lee Hsun Award pe anul 2015 acordata de **Institute of Metal Research Shenyang of the Chinese Science Academy**
Ordinul național „Steaua României" în grad de Cavaler, Decembrie 2016.

PUBLICATII

Carti publicate in tara **17**
A coordonat doua volume de Istoria Tehnicii din cadrul seriei Civilizatia Romaneasca a Editurii Academiei Romane..

Carti publicate in strainatate **6** (la editurile Springer (4), Science Press Beijing (1) si Hermes (1))

Contributii cu capitole in carti **12** (4 in tara si 8 in strainatate in editurile Elsevier, Wiley, Springer, CRC Press)

A contribuit cu capitole la doua enciclopedii:

1. *Encyclopedia of Production Engineering, Springer, Heidelberg-Berlin, 2014, 2019*
2. *Encyclopedia of Aluminium and its Alloys, CRC Press, New York, 2019.*

Articole publicate sau prezentate:	**372**
-Conferinte nationale	**47**
-Conferinte internationale	**205**
din care cotate ISI	**50**
-în reviste:	**120**
din care cotate ISI	**98**
Brevete de inventii	**1**

Peste 120 de articole publicate in colaborare cu cercetatori din Germania, Franta, Suedia, Elvetia, Anglia, Portugalia, Polonia, Belgia, Iran, Arabia Saudita, China, Suedia, Norvegia, Olanda, Corea de sud, Bielorusia, Ucraina, Turcia, Japonia, Slovenia, USA.

Citari pe ISI Web of Science	**1811**
Indicele Hirsch (ISI Web of Science)	**19**
Citari pe Scholar Google	**~5000**
Indice Hirsch (Scholar Google)	**34**

Informatii suplimentare se gasesc pe pagina de web :
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Cluj Napoca
06.07.2021

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Universitatea Tehnica din Cluj Napoca

LISTA DE LUCRARI
06 iunie 2021

A. CARTI

A.1 CARTI PUBLICATE IN ROMANIA

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3. **Banabic D.**, Dörr I.R., ***Deformabilitatea tablelor metalice subtiri. Metoda curbelor limita de deformare***, Editura OIDICM, Bucuresti, 1992, 246 pag., ISBN 973-95641-1-9.
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3. **Banabic D.,** (Guest Editor), ***Modelling and Experiments in Material Forming***, Hermes-Lavoisier, Paris, 2007, ISBN 978-2-7462-1775-1 (134 pag).
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