

LISTA DE LUCRĂRI
a cadrului didactic Ionescu Nadia

A. Teza de doctorat

Contribuții privind aplicarea unor metode moderne de managementul calității în producția de componente auto, Universitatea POLITEHNICA din București, 2014, Domeniul Inginerie Industrială, Conducătorul de doctorat: Prof. dr. ing. ec. Constantin Militaru

B. Cărți și capitole în cărți

B2. Cărți și capitole în cărți de specialitate naționale ca autor (cu ISBN intern)

1. Rizea A. D., Belu N., *Ingineria calității*, Editura Universității din Pitești ISBN (10): 973-690-621-3, ISBN (13): 978-973-690-621-3, 2006., 2006
2. Bălțeanu A., Belu N., *Noțiuni de bază în management. Studii de caz. Probleme. Întrebări*, Editura Universității din Pitești, 2012, ISBN: 978-606-560-253-3, 2012
3. Nițu E. L., Belu N., *Ingineria și managementul sistemelor de producție Organizarea sistemelor de producție*, Editura Universității din Pitești, ISBN 978-606-560-419-3, 248 pag, 2015,
4. Belu N., *Modele de evaluare a riscurilor în proiectele de producție*, Editura Universității din Pitești, e-ISBN: 978-606-560-676-0, 106 pag , 2020
5. Nițu E.L. (coordonator), Gavriluță A.C., Belu N., Gavriluță C.A., Anghel D.C., Rizea A.D., Neacșu G.C., Pascu I.G., *Îmbunătățirea fluxurilor de producție: metodologie de aplicare pentru liniile de asamblare*, Editura Universității din Pitești, 2021, 194 Pag, 2021

B5. Manuale didactice, suport de curs

1. Belu N., *Analiză Economică, Note de curs*, 50 pag, 2016
2. Belu N., *Bazele Managementului, Note de curs*, 50 pag, 2016
3. Belu N., *Managementul Proiectelor de producție, Note de curs*, 60 pag, 2016
4. Belu N., *Managementul proiectelor logistice*, Note de curs, 50 pag, 2017
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B6. Îndrumare de laborator, culegere de probleme

1. Nitu E.L., Belu N., *Bazele Ingineriei și Managementului Sistemelor de Producție, Partea a I a, Îndrumar de laborator*, 49 pag, 2003
2. Nițu E., Belu N., *Bazele Ingineriei și Managementului Sistemelor de Producție, Partea a II a, Îndrumar de laborator*, 64 pag, 2004
3. Nițu E., Belu N., Rotaru A., *Ingineria sistemelor de producție 1,2 Îndrumar de laborator*, Editura Universității din Pitești, ISBN 973-690-532-2 (978-973-690-532-2),148 pag., 2006
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5. Belu N., *Managementul Proiectelor de Producție, Îndrumar de laborator*, Pitești, 2008, 140 pag., 2008
6. Nițu E., Belu N., Rotaru A., *Ingineria și managementul producției 2 - Lucrări de laborator*, Lucrari de laborator, 2012, Pitești, 150 pag., 2012
7. Nițu E., Rotaru A., Belu N., *Ingineria și managementul producției 1 - Lucrări de laborator*, Lucrari de laborator, Pitești, 152 pag., 2012
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9. Belu N, *Managementul proiectelor de productie - Ghid de elaborare a proiectului*, 56 pagini, 2020

10. Ionescu N., *Managementul proiectelor – fascicule de lucrări*, 160 pag, 2022

C. Lucrări (articole) ISI / BDI

C1. Articole în reviste cotate ISI Thomson Reuters

1. Belu, N., Al Ali, A.R., Khassawneh, N., *Application of Control Plan - PPAP Tool - in automotive industry production*, Quality-Access to Success / Calitatea-Acces la Succes. vol. 14 - no. 136, ISSN1582-2559, pp. 68-72 / 20-25, 2013 WOS:000421584000003

2. Belu N., Khassawneh, N., Al Ali, A.R., *Implementation of Failure Mode, Effects and Criticality Analysis in the production of automotive parts*, Quality-Access to Success/Calitatea-Acces la Succes, Vol. 14 - Issue 135, ISSN 1582-2559, pp. 67-71/13-19, WOS:000421584000003

3. Ionescu L.M., Bizon N., Mazare A.G., Belu N., *Reducing the Cost of Electricity by Optimizing Real-Time Consumer Planning Using a New Genetic Algorithm-Based Strategy*, Mathematics (ISSN 2227-7390) 2020, 8(7), 1144; Q1, "Zona rosie" Impact Factor: 1.747 (2019), <https://doi.org/10.3390/math8071144>, 2020

4. Pirvu V, Rontescu C, Bogatu A-M, Cicic D-T, Burlacu A, Ionescu N., *Research on Occupational Risk Assessment for Welder Occupation in Romania.*, Processes. 2024; 12(7):1295. <https://doi.org/10.3390/pr12071295>, Q2, Impact Factor: 2.8 (2023), 2024

5. Oancea A-V, Ionescu N, Rontescu C, Ionescu L-M, Misztal A, Bogatu A-M, Cicic D-T, Pirvu V. Integrating Industry 4.0 Technologies into 8D Methodologies: A Case Study in the Automotive Industry. *Applied Sciences*. 2025; 15(20):11262. <https://doi.org/10.3390/app152011262>

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- Series: International Conference ModTech Proceedings, 15th International Conference of Modern Technologies, Quality and Innovation, Vadul lui Voda, Moldova, ISSN 2069-6736, vol.1, pp. 13-16, 2011 , 2011
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 6. Nicolae V., Anghelache G., Ilie S., Boroiu A. Ilie N., *The experimental determination of natural frequencies of a bio-composite material with applications in the car interior trim, in order to evaluate its mechanical characteristics*, MODTECH 2011: NEW FACE OF T.M.C.R., VOL I AND II, Book Series: International Conference ModTech Proceedings, 15th International Conference of Modern Technologies, Quality and Innovation, Vadul lui Voda, Moldova, 25-27 May 2011, ISSN 2069-6736, vol.2, pp. 761-764, 2011., 2011
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 9. Anghel D.C., Belu, N., *Contribution to Ranking an Ergonomic Workstation, Considering the Human Effort and the Microclimate Parameters, using Neural Networks*, 17th International Conference on Innovative Manufacturing Engineering – ImanE 2013, Iași, Romania, May 23-24, in Applied Mechanics and Materials Vol. 371, pp 812-816, 2013. doi: 10.4028/www.scientific.net/AMM.371.812., 2013
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F. Granturi / proiecte de cercetare în perioada

F1. Granturi / proiecte câștigate prin competiție internațională

1. *Cost Efficient Data Collection for Smart Grid and Revenue Assurance/ Optimizarea costurilor la colectarea datelor de la contoarele inteligente si metode de imbunatatire a profitului la transportul energiei electrice*, Ionescu Laurentiu, Mazare Alin, Bizon Nicu, Serban Gheorghe, Lita Ioan, Belu Nadia, Oproescu Mihai, Barleanu Florin, Iordachescu Grigore, Programul PN III Cooperarea Europeană și Internațională - Subprogram 3.2 - Orizont 2020, ERANET, Cost-Efficient Data Collection for Smart Grid and Revenue Assurance, Nr. înreg. 79/2016, înregistrat la Universitatea din Pitești cu nr. 5869 la data de 13.05.2016, 2016-2019, (valoarea totala UPIT=461835 lei)<https://www.era-learn.eu/network-information/networks/era-net-smartgridplus/era-net-smart-grids-plus-joint-call-for-proposals/cost-efficient-data-collection-for-smart-grid-and-revenue-assurance>, 2016, 178321.00
2. *Optimizarea costurilor la colectarea datelor de la contoarele inteligente si metode de imbunatatire a profitului la transportul energiei electrice (Cost-Efficient Data Collection for Smart Grid and Revenue Assurance) - CARA SG, Cod proiect ERANet SMartGri*, BELU NADIA, IONESCU LAURENTIU MIHAI, MAZARE ALIN GHEORGHITA, BIZON NICU, SERBAN GHEORGHE, LITA IOAN, OPROESCU MIHAI, BIRLEANU FLORIN MARIAN,

IODACHESCU GRIGORE ADRIAN, BELU NADIA, Cod: Programul PN III – Cooperarea Europeană și Internațională – Subprogram 3.2 – Orizont 2020, ERANET, beneficiar: MINcom Smart Solutions GmbH, anul: 2018, domeniul științific: ERANET SMARTGRID, valoare: 83686.00, 2018, 83686.00

3. *Optimizarea costurilor la colectarea datelor de la contoarele inteligente si metode de imbunatatire a profitului la transportul energiei electrice (Cost-Efficient Data Collection for Smart Grid and Revenue Assurance) - CARA_SG, Cod proiect ERANet SMartGri, BELU NADIA, IONESCU LAURENTIU MIHAI, MAZARE ALIN GHEORGHITA, BIZON NICU, SERBAN GHEORGHE, LITA IOAN, OPROESCU MIHAI, BIRLEANU FLORIN MARIAN, IORDACHESCU GRIGORE ADRIAN, BELU NADIA, Cod: Programul PN III – Cooperarea Europeană și Internațională – Subprogram 3.2 – Orizont 2020, ERANET, beneficiar: MINcom Smart Solutions GmbH, anul: 2019, domeniul științific: ERANET SMARTGRID, valoare: 83686.00, 2019, 83686.00*

4. *Towards Higher INvolvement of Knowledge Significantly Enhancing Nearer for Sustainable Europe ("THINKSENSE")/ Universitatea Națională de Știință și Tehnologie POLITEHNICA București - Important Project of Common European Interest (IPCEI) on Microelectronics and Communication Technologies (ME/CT)/ Robert Bosch SRL/ decembrie 2025 -- decembrie 2028, membru*

F2. Granturi / proiecte câștigate prin competiție națională

1. BELU NADIA, BELU NADIA, GAVRILUTA CORNELIA ANA, NITU EDUARD LAURENTIU, *Conducerea inteligentă a proceselor de fabricație și inspecție destinate reperelor utilizate în industria auto și aeronautică*, Cod: Programul P1 - Dezvoltarea sistemului național de Cercetare-Dezvoltare Axa prioritară 2 -Subprogramul 1.2 - Performanță instituțională. Proiecte de dezvoltare instituțională - Proiecte Complexe realizate în consorții CDI, beneficiar: Univ. "V. Alecsandri" din Bacău, anul: 2018, domeniul științific: Tehnologii noi și emergente, valoare: 5000.00, 2018

2. IONESCU Laurențiu Mihai, MAZĂRE Alin Gheorghită, Bizon Nicu, Lita Ioan, Oproescu Mihai, Anghelescu Petre, Belu Nadia, *Cuantificarea multisenzorială a stresului hidric și biocenotic din horticultură prin fitomonitorizare și avertizare timpurie în condițiile schimbărilor climatice*, "Creșterea capacității instituționale de cercetare bioeconomică pentru exploatarea inovatoare a resurselor vegetale autohtone, în vederea obținerii de produse horticole cu valoare adăugată ridicată" – BIOHORTINOV, cod de înregistrare: PN-III-P1-1.2-PCCDI-2017-0332Proiect 2, 2018

3. MAZĂRE Alin Gheorghită, IONESCU Laurențiu Mihai, Bizon Nicu, Liță Ioan, Șerban Gheorghe, Anghelescu T. Petre, Oproescu Mihai, Vișan Daniel, Georgescu Cristian Belu Nadia, Anghel Daniel Constantin, *Sistem electronic complex pentru monitorizarea condițiilor de apariție a stresului hidric cu algoritmi inteligenți de prelucrarea datelor pentru avertizare și prevenirea acestuia în horticultură*, "Creșterea capacității instituționale de cercetare bioeconomică pentru exploatarea inovatoare a resurselor vegetale autohtone, în vederea obținerii de produse horticole cu valoare adăugată ridicată" – BIOHORTINOV, cod de înregistrare: PN-III-P1-1.2-PCCDI-2017-0332", 2018

4. NITU EDUARD LAURENTIU, GAVRILUTA CORNELIA ANA, RIZEA ALIN DANIEL, BELU NADIA, ANGHEL DANIEL CONSTANTIN, STANESCU NICOLAE DORU, *Îmbunătățirea fluxurilor de producție din industriile de automobile și aerospațială prin integrarea metodelor și tehnicilor moderne de managementul producție*, Cod: Programul P1 - Dezvoltarea sistemului național de Cercetare-Dezvoltare Axa prioritară 2 -Subprogramul 1.2 - Performanță instituțională. Proiecte de dezvoltare instituțională - Proiecte Complexe realizate în consorții CDI, beneficiar: Univ. "V. Alecsandri" din Bacău, anul: 2018, domeniul științific: Tehnologii noi și emergente, 2018

5. MAZĂRE Alin Gheorghită, IONESCU Laurențiu Mihai, Bizon Nicu, Liță Ioan, Șerban Gheorghe, Anghelescu T. Petre, Oproescu Mihai, Vișan Daniel, Georgescu Cristian Belu Nadia, Anghel Daniel Constantin, *Sistem electronic complex pentru monitorizarea condițiilor de apariție a stresului hidric cu algoritmi inteligenți de prelucrarea datelor pentru avertizare și prevenirea acestuia în horticultură*, "Creșterea capacității instituționale de cercetare bioeconomică pentru exploatarea inovatoare a resurselor vegetale autohtone, în vederea obținerii de produse horticoale cu valoare adăugată ridicată" – BIOHORTINOV, cod de înregistrare: PN-III-P1-1.2-PCCDI-2017-0332", 2019

6. IONESCU Laurențiu Mihai, MAZĂRE Alin Gheorghită, Bizon Nicu, Lita Ioan, Oproescu Mihai, Anghelescu Petre, Belu Nadia, *Cuantificarea multisenzorială a stresului hidric și biocenotic din horticultură prin fitomonitorizare și avertizare timpurie în condițiile schimbărilor climatice*, "Creșterea capacității instituționale de cercetare bioeconomică pentru exploatarea inovatoare a resurselor vegetale autohtone, în vederea obținerii de produse horticoale cu valoare adăugată ridicată" – BIOHORTINOV, cod de înregistrare: PN-III-P1-1.2-PCCDI-2017-0332Proiect 2, 2019

7. NITU EDUARD LAURENTIU, GAVRILUTA CORNELIA ANA, RIZEA ALIN DANIEL, BELU NADIA, ANGHEL DANIEL CONSTANTIN, STANESCU NICOLAE DORU, *Îmbunătățirea fluxurilor de producție din industriile de automobile și aerospațială prin integrarea metodelor și tehnicilor moderne de managementul producție*, Cod: Programul P1 - Dezvoltarea sistemului național de Cercetare-Dezvoltare Axa prioritară 2 -Subprogramul 1.2 - Performanță instituțională. Proiecte de dezvoltare instituțională - Proiecte Complexe realizate în consorții CDI, beneficiar: Univ. "V. Alecsandri" din Bacău, 2019

8. BELU NADIA, GAVRILUTA CORNELIA ANA, BELU NADIA, NITU EDUARD LAURENTIU, *Conducerea inteligentă a proceselor de fabricație și inspecție destinate reperelor utilizate în industria auto și aeronautică*, Cod: Programul P1 - Dezvoltarea sistemului național de Cercetare-Dezvoltare Axa prioritară 2 -Subprogramul 1.2 - Performanță instituțională. Proiecte de dezvoltare instituțională - Proiecte Complexe realizate în consorții CDI, beneficiar: Univ. "V. Alecsandri" din Bacău, anul: 2019, domeniul științific: Tehnologii noi și emergente, valoare: 5000.00, 2019

9. BELU NADIA, NICULESCU IONELA IOANA, BELU NADIA, *Îmbunătățirea calității procesului educațional prin implementarea unor mecanisme și activități de evaluare online în cadrul Universității din Pitești*, Cod: CNFIS-FDI-2019-0717, beneficiar: UPIT, anul: 2019, domeniul științific: FDI, valoare: 164000.00, 2019

10. IONESCU Laurențiu Mihai, MAZĂRE Alin Gheorghită, Bizon Nicu, Lita Ioan, Oproescu Mihai, Anghelescu Petre, Belu Nadia, *Cuantificarea multisenzorială a stresului hidric și biocenotic din horticultură prin fitomonitorizare și avertizare timpurie în condițiile schimbărilor climatice*, Creșterea capacității instituționale de cercetare bioeconomică pentru exploatarea inovatoare a resurselor vegetale autohtone, în vederea obținerii de produse horticoale cu valoare adăugată ridicată" – BIOHORTINOV, cod de înregistrare: PN-III-P1-1.2-PCCDI-2017-0332Proiect 2, 2020

11. MAZĂRE Alin Gheorghită, IONESCU Laurențiu Mihai, Bizon Nicu, Liță Ioan, Șerban Gheorghe, Anghelescu T. Petre, Oproescu Mihai, Vișan Daniel, Georgescu Cristian Belu Nadia, Anghel Daniel Constantin, *Sistem electronic complex pentru monitorizarea condițiilor de apariție a stresului hidric cu algoritmi inteligenți de prelucrarea datelor pentru avertizare și prevenirea acestuia în horticultură*, "Creșterea capacității instituționale de cercetare bioeconomică pentru exploatarea inovatoare a resurselor vegetale autohtone, în vederea obținerii de produse horticoale cu valoare adăugată ridicată" – BIOHORTINOV, cod de înregistrare: PN-III-P1-1.2-PCCDI-2017-0332", 2020

12. GAVRILUTA CORNELIA ANA, NITU EDUARD LAURENTIU, BELU NADIA, *Conducerea inteligentă a proceselor de fabricație și inspecție destinate reperelor utilizate în industria auto și aeronautică*, Programul P1 - Dezvoltarea sistemului național de Cercetare-Dezvoltare Axa prioritară 2 -Subprogramul 1.2 - Performanță instituțională. Proiecte de dezvoltare

instituțională - Proiecte Complexe realizate în consorții CDI, beneficiar: Univ. "V. Alecsandri" din Bacău, anul: 2020, domeniul stiintific: Tehnologii noi și emergente, valoare: 5000.00, 2020,

13. NITU EDUARD LAURENTIU, GAVRILUTA CORNELIA ANA, NITU EDUARD LAURENTIU, RIZEA ALIN DANIEL, BELU NADIA, ANGHEL DANIEL CONSTANTIN, Iuliana-Georgiana Pascu, Neacsu Georgiana Cătălina, *Îmbunătățirea fluxurilor de producție din industriile de automobile și aerospațială prin integrarea metodelor și tehnicilor moderne de managementul producție*, Cod: Programul P1 - Dezvoltarea sistemului național de Cercetare-Dezvoltare Axaprioritară 2 -Subprogramul 1.2 - Performanță instituțională. Proiecte de dezvoltare instituțională - Proiecte Complexe realizate în consorții CDI, beneficiar: Univ. "V. Alecsandri" din Bacău, anul: 2020, domeniul stiintific: Tehnologii noi și emergente, valoare: 324010.00, 2020,

F3. Contracte de cercetare cu mediul socio-economic

1. Sorin Ilie, Alexandru Boroiu, Nadia Belu, *Studii si cercetări pentru dezvoltarea durabila a transportului public de persoane prin servicii regulate in judetul Olt*, Contract nr. 6165/25.06.2009 la Universitatea din Pitești, Beneficiar: Consiliul Județean Olt, 2009., 2009

2. Sorin Ilie, Alexandru Boroiu, Viorel Nicolae, Nadia Ilie, Gheorghe Crivac, *Studii si cercetari pentru dezvoltarea durabila a transportului public de persoane prin servicii regulate in judetul Dambovita*, Contract nr. 11652/06.12.2010. Beneficiar: Consiliul Judetean Dambovita, 2010

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Cadrul didactic Ionescu Nadia