

UNIVERSITATEA DIN PETROȘANI
Facultatea de Inginerie Mecanică și Electrică
Departamentul de Automatică, Calculatoare, Inginerie Electrică și Energetică
Examen de promovare pe postul de *profesor universitar*, poziția 3
Disciplinele: **Modelare, identificare și simulare/Modelare și simulare;**
Elemente de execuție electrice;
Optimizări.
Domeniul: **INGINERIA SISTEMELOR**

LISTA DE LUCRĂRI

Candidat: **STOICUȚA O. Olimpiu – Costinel**, doctor inginer din **2011** (conform OM nr. 4387/06. 06. 2011), conferențiar universitar din **23.02.2015** (confor deciziei nr.14 din 18.02.2015).

A) Lucrări relevante pentru realizările profesionale proprii (maxim 10 lucrări)

1. M. Windisch, J. Wassermann, M. Leba, **O. Stoicuta**, *Hadamard Error-Correcting Codes and Their Application in Digital Watermarking*, Sensors, Volume 24; Issue 10; ISSN: 1424-8220; **2024**, DOI: 10.3390/s24103062; WOS: 001231408500001; JCR Category: Q2 - Engineering, Electrical & Electronic (Rank: 122/352); JCR Category: Q2 - Instruments & Instrumentation (Rank: 24/76); IF: 3.4/2023.
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2. **O. Stoicuta**; S. Riurean; S. Burian; M. Leba; Andreea Ionica; *Application of Optical Communication for an Enhanced Health and Safety System in Underground Mine*, Sensors, Volume 23; Issue 2; ISSN: 1424-8220; **2023**; DOI: 10.3390/s23020692; WOS:000927245900001.
<https://1d10qe004-y-https-www-webofscience-com.z.e-nformation.ro/wos/woscc/full-record/WOS:000927245900001>
3. **O. Stoicuta**, *A New Approach to Speed and Rotor Flux Estimation of Induction Motors for Vector Control Systems*, International Conference on Applied and Theoretical Electricity (ICATE), **2021**, DOI: 10.1109/ICATE49685.2021.9465028; WOS: 000709089900050; ISBN: 978-1-7281-8035-9; ISSN: 2376-4163.
<https://1d10qe004-y-https-www-webofscience-com.z.e-nformation.ro/wos/woscc/full-record/WOS:000709089900050>
4. **O. Stoicuta**, *Speed and Rotor Flux Estimation using Back-EMF MRAS and Gopinath Observers for Sensorless Vector Control Systems of Induction Motors*, 9th International Conference on Modern Power Systems (MPS), **2021**, DOI: 10.1109/MPS52805.2021.9492590; WOS:000941563300033; ISBN: 978-1-6654-3381-5.
<https://1d10qe004-y-https-www-webofscience-com.z.e-nformation.ro/wos/woscc/full-record/WOS:000941563300033>
5. **O. Stoicuta**, *Design and Analysis a Speed and Rotor Flux Observer for Sensorless Vector Control Systems of Induction Motors*, 9th International Conference on Modern Power Systems (MPS), **2021**, DOI: 10.1109/MPS52805.2021.9492543; WOS: 000941563300012; ISBN: 978-1-6654-3381-5.
<https://1d10qe004-y-https-www-webofscience-com.z.e-nformation.ro/wos/woscc/full-record/WOS:000941563300012>

6. **O. Stoicuta**, T. Pana, *Comparative Study Between Extended Gopinath Observer and Back EMF-MRAS Speed Observer Coupled with Gopinath Rotor Flux Observer for Sensorless Vector Control of Induction Motor Drives*, International Conference on Electromechanical and Energy Systems (SIELMEN), **2019**, Craiova, Romania, WOS:000630287500123, ISBN: 978-172814011-7.
<https://1d10qe004-y-https-www-webofscience-com.z.e-nformation.ro/wos/woscc/full-record/WOS:000630287500123>
7. **O. Stoicuta**, T. Pana, R. Molnar, D. Deaconu, *Simultaneous Estimation of Speed and Rotor Resistance in the Sensorless Vector Control Systems with Induction Motors*, International Conference on Electromechanical and Power Systems (SIELMEN), pp. 47-52, **2017**, WOS:000426906000009, ISBN: 978-1-5386-1846-2.
<https://1d10qe004-y-https-www-webofscience-com.z.e-nformation.ro/wos/woscc/full-record/WOS:000426906000009>
8. **O. Stoicuta**, T. Pana, *Asymptotic Stability Study of Induction Motor Sensorless Vector Control Systems with MRAS observer*, IEEE International Conference on Automation Quality and Testing Robotics (AQTR), pp. 245-250, **2016**, WOS:000390997900041, ISBN: 978-1-4673-8690-6, ISSN: 1844-7872.
<https://1d10qe004-y-https-www-webofscience-com.z.e-nformation.ro/wos/woscc/full-record/WOS:000390997900041>
9. **O. Stoicuta**; T. Pana, C. Mandrescu, *The Control System Analysis of the Coal Flow on the Scrapers Conveyor in a Longwall Mining System*, International Conference on Applied and Theoretical Electricity (ICATE), **2016**, WOS:000390767500015, ISBN: 978-1-4673-8562-6, ISSN: 2376-4163.
<https://1d10qe004-y-https-www-webofscience-com.z.e-nformation.ro/wos/woscc/full-record/WOS:000390767500015>
10. T. Pana, **O. Stoicuta**, *Controllers tuning for the speed vector control of induction motor drive systems*, International Conference on Automation, Quality and Testing, Robotics (AQTR), Vol. 1-3, **2010**, WOS:000419281500051, ISBN: 978-1-4244-6725-9, ISSN: 1844-7872.
<https://1d10qe004-y-https-www-webofscience-com.z.e-nformation.ro/wos/woscc/full-record/WOS:000419281500051>

B) Teza de doctorat

O. Stoicuța, *Contribuții la studiul stabilității sistemelor de reglare vectorială sensorless cu motoare de inducție*, Universitatea Tehnică din Cluj-Napoca, domeniul fundamental Științe Inginerești, domeniul de doctorat Inginerie Electrică confirmat prin OM nr. 4387/06. 06. 2011, calificativul: foarte bine.

<https://iosud.utcluj.ro/files/Ordine%20confirmare%20titlu%20doctor/4387-06.06.2011.PDF>

C) Teza de abilitare

O. Stoicuta, *Cercetări și contribuții privind estimarea fluxului, vitezei și a parametrilor electrici și mecanici în cadrul sistemelor de control vectorial cu motoare de inducție*, Teză de abilitare, Universitatea din Petroșani, **2025** (atestat de abilitare în domeniul de studii universitare de doctorat *Ingineria sistemelor*, conform OM Nr. 4635/22. 07. 2025).

https://www.upet.ro/doctorat/abilitare/Stoicuta%20Olimpiu/Ordinul%20nr.%204635%20din%2022.07.2025_Conf.%20STOICU%C8%9AA%20Olimpiu%20Costinel.PDF

D) Brevete de invenție și alte titluri de proprietate industrială - - -

E) Cărți și capitole în cărți

E1. Cărți publicate la edituri de prestigiu din străinătate

1. Marius Ristoiu, Monica Leba, **Olimpiu Stoicuța**, *Exoskeleton Control System*, LAP LAMBERT Academic Publishing, **2020**, ISBN: 978-620-3-20051-5,
<https://www.amazon.com/Exoskeleton-Control-System-Marius-Nicolae-Ristoiu/dp/6203200514>

E2. Cărți publicate la edituri din țară, recunoscute de CNCS

1. V.C. Sîrb, **O. Stoicuța**, *Controlul, comanda și reglarea sistemelor automate*, Editura Universitas, Petroșani, **2023**, pg.215, ISBN: 978-973-741-926-2.
<https://www.upet.ro/biblioteca/detalii.php?bookid=56584>
2. M. Ristoiu, M. Leba, **O. Stoicuța**, *Conducerea sistemelor de tip exoschelet*, Editura Universitas, Petroșani, **2020**, pg.166, ISBN: 978-973-741-737-4.
<https://www.upet.ro/biblioteca/detalii.php?bookid=55642>
3. **O. Stoicuța**, M.S. Nan, N. Diaconu, D. Grecea, *Sisteme fotovoltaice: evaluare, modelare, simulare, proiectare*, Editura Universitas, Petroșani, **2020**, pg.348, ISBN:978-973-741-696-4.
<https://www.upet.ro/biblioteca/detalii.php?bookid=53470>
4. D.Grecea, M.S. Nan, **O. Stoicuța**, C. Colda, *Modelarea și simularea sistemelor de extragere de tip continuu utilizate în cariere*, Editura INSEMEX, Petrosani, **2019**, pg.235, ISBN: 978-606-8761-31-2. https://insemex.ro/fusion_element/carti/
5. T. Pană, **O. Stoicuța**, *Stabilitatea sistemelor de acționare vectorială cu motoare de inducție*, Editura Mediamira, Cluj-Napoca, **2016**, pg.513, ISBN 978-973-713-341-0.
6. **O. Stoicuța**, C. Mandrescu, N. Stoicuta, *Tehnici de optimizare și Control optimal*, Editura Universitas, Petroșani, **2014**, pg.282, ISBN 978-973-741-324-6.
<https://www.upet.ro/biblioteca/detalii.php?bookid=31505>
7. V. Zamfir, H. Virgolici, **O. Stoicuța**, *A very convenient design hand – book on dimensional synthesis of four – bar linkage mechanisms*, Universitas Publishing House, Petrosani, **2013**, pg.186, ISBN 978-973-741-330-7.
<https://www.upet.ro/biblioteca/detalii.php?bookid=28111>
8. **O. Stoicuța**, *Modelarea și simularea în Matlab-Simulink a sistemelor de reglare a vitezei motoarelor de inducție*, Editura Universitas, Petroșani, **2012**, pg.237, ISBN 978-973-741-273-7.
<https://www.upet.ro/biblioteca/detalii.php?bookid=27979>
9. **O. Stoicuța**, Corneliu Mândrescu, *Identificarea sistemelor – Lucrări de laborator*, Editura Universitas, Petroșani, **2012**, pg.190, ISBN 978-973-741-272-0.
<https://www.upet.ro/biblioteca/detalii.php?bookid=28035>

F) Articole publicate în reviste

F1. Reviste indexate ISI

1. M. Windisch, J. Wassermann, M. Leba, **O. Stoicuța**, *Hadamard Error-Correcting Codes and Their Application in Digital Watermarking*, Sensors, Volume 24; Issue 10; ISSN: 1424-8220; **2024**, DOI: 10.3390/s24103062; WOS: 001231408500001; JCR

Category: Q2 - Engineering, Electrical & Electronic (Rank: 127/369); JCR Category: Q2 - Instruments & Instrumentation (Rank: 24/81); IF: 4/2025.

<https://1d10qoxzz-y-https-www-webofscience-com.z.e-nformation.ro/wos/woscc/full-record/WOS:001231408500001>

2. M. Windisch, F.A. Himmelstoss, M. Leba, **O. Stoicuta**, H.L. Votzi, *Combined Light and Data Driving Stages without Capacitors for Energy Transformation*, Electricity, Vol.5, Issue 2, pp. 313-333, ISSN: 2673-4826, **2024**, DOI: 10.3390/electricity5020016, WOS: 001256378100001, JCR Category: Q3 - Engineering, Electrical & Electronic (Rank: 186/369); IF: 2.7/2025; Nr.aut:5
<https://1d10qoxzz-y-https-www-webofscience-com.z.e-nformation.ro/wos/woscc/full-record/WOS:001256378100001>
3. **O. Stoicuta**, S. Riurean, S. Burian, M. Leba, A. Ionica, *Application of Optical Communication for an Enhanced Health and Safety System in Underground Mine*, Sensors, Volume 23; Issue 2; ISSN: 1424-8220; **2023**; DOI: 10.3390/s23020692; WOS:000927245900001; JCR Category: Q2 - Engineering, Electrical & Electronic (Rank: 127/369); JCR Category: Q2 - Instruments & Instrumentation (Rank: 24/81); IF: 4/2025.
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4. N. Diaconu, M.S. Nan, **O. Stoicuta**, A.R. Ungur, M.R. Popescu, D. Grecea, *Research on achieving a meteorological monitoring system to increase efficiency in the execution and operation of solar installations and to reduce environmental pollution*; Industria textila, Volume: 70, Issue: 1, Pages: 48-56, **2019**, WOS:000459393600009, ISSN: 1222-5347, JCR Category: Q3 - Materials Science, Textiles (Rank: 23/31); IF: 1/2025.
<https://1d10qe004-y-https-www-webofscience-com.z.e-nformation.ro/wos/woscc/full-record/WOS:000459393600009>
5. M.S. Nan, **O. Stoicuta**, D. Grecea, C. Plotogea, *Analysis of Protection Systems for Reducing the Effects of Shock Waves Produced by Explosions in Enclosed Spaces*, Issue 4, Vol. 18, **2019**, Environmental Engineering and Management Journal; pp.881-888, WOS: 000469992200014; ISSN: 1582-9596; JCR Category: Q4 - Environmental Science (Rank: 379/395); IF: 0.8/2025.
<https://1d10qe004-y-https-www-webofscience-com.z.e-nformation.ro/wos/woscc/full-record/WOS:000469992200014>
6. **O. Stoicuta**, M.S. Nan, D. Grecea, C. Plotogea, A.L. Chiotoroiu, G. Tutuianu, D. Popescu, *Research on the possibilities of reducing the effects of shock waves in case of explosions in environments with dust and textile suspended particulate matter*, Revista Industria textilă, Volume: 69, Issue: 3, Pages: 243-248, **2018**, WOS:000436359100012, ISSN: 1222-5347, JCR Category: Q3 - Materials Science, Textiles (Rank: 23/31); IF: 1/2025.
<https://1d10qe004-y-https-www-webofscience-com.z.e-nformation.ro/wos/woscc/full-record/WOS:000436359100012>
7. N. Diaconu, M.S. Nan, **O. Stoicuta**, *The study of the solar radiation in the context of industrial restructuring and the need to reduce environmental pollution*, Revista Industria textila, Volume: 68, Issue: 4, Pages: 314-319, **2017**, DOI: 10.35530/IT.068.04.1269, WOS: 000408331800012, ISSN: 1222-5347, JCR Category: Q3 - Materials Science, Textiles (Rank: 23/31); IF: 1/2025.
<https://1d10qe004-y-https-www-webofscience-com.z.e-nformation.ro/wos/woscc/full-record/WOS:000408331800012>

8. T. Pana, **O. Stoicuta**, *Small Speed Asymptotic Stability Study of an Induction Motor Sensorless Speed Control System with Extended Gopinath Observer*, Advances in Electrical and Computer Engineering, vol. 11, no. 2, pp. 15-22, **2011**, DOI: 10.4316/AECE.2011.02003, WOS:000293840500003, ISSN: 1582-7445, IF: 0.9/2025, JCR Category: Q4 - Computer Science (Rank: 189/210).
<https://1d10qe004-y-https-www-webofscience-com.z.e-nformation.ro/wos/woscc/full-record/WOS:000293840500003>
9. N. Stoicuta, **O. Stoicuta**, *Monitoring on-line by the stability of the Kalman filter used in the vectorial control system for the speed of an induction motor*, Journal of Mining Institute, **2009**, St.Petersburg, Rusia, pp. 109 – 114, Vol.181, ISSN: 2411-3336, WOS:000409750700033, IF: 2.8/2025, JCR Category: Q2 - Mining & Mineral Processing (Rank: 11/35).
<https://1d10qe004-y-https-www-webofscience-com.z.e-nformation.ro/wos/woscc/full-record/WOS:000409750700033>
10. **O. Stoicuta**, N. Stoicuta, T. Pana, *Small Speed Asymptotic Stability Study of A Speed Vector Control System for An Induction Motor that Contains in Its Loop A Gopinath Observer*, Journal of Mining Institute, **2009**, St. Petersburg, Rusia, pp. 115 -122, Vol.181, ISSN: 2411-3336, WOS: 000409750700034, IF: 2.8/2025, JCR Category: Q2 - Mining & Mineral Processing (Rank: 11/35).
<https://1d10qe004-y-https-www-webofscience-com.z.e-nformation.ro/wos/woscc/full-record/WOS:000409750700034>

F2. Reviste indexate SCOPUS

1. **O. Stoicuta**, N. Stoicuta, *Modele econometrice si previziuni privind energia din surse regenerabile in Romania*, Energy, Journl Environment. Efficiency. Resources. Globalization (EMERG), vol.9, pp. 7-27, **2019**, ISSN 2457-5011, DOI: 10.37410/EMERG.2019.09.01, Indexata Scopus.
<https://1d109plem-y-https-www-scopus-com.z.e-nformation.ro/pages/publications/85159288162?origin=resultslist>
2. **O. Stoicuta**, M.S. Nan, G. Dimirache, N. Buda, D.L. Dandea, *Research Regarding the Use of New Systems to Control Fluid Flow in Pipelines*, WSEAS Transaction on Fluid Mechanics; Vol.5; Issue 3, pp. 144-154, ISSN: 1790-5087, **2010**, Indexata Scopus.
<https://1d109plem-y-https-www-scopus-com.z.e-nformation.ro/pages/publications/77956244620?origin=resultslist>

F3. Reviste indexate INSPEC

1. **O. Stoicuta**, T.Pana, *Asymptotic Stability of a Speed Vector Control System for an Induction Motor that Contains in it's Loop a Gopinath Observer*, Journal of Electrical Engineering, Timisoara, vol.9, Issue 4, **2009**, ISSN: 1582 – 4594, indexată Inspec, Inspec ID: BD91.
<http://www.jee.ro/index.php/jee/article/view/WM1226325440W49183dc02d827>
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F4. Reviste indexate EBSCO

1. **O. Stoicuta**, V. C Sîrb, N. Stoicuța, *On-line estimation of the core loss resistance and the eddy-current-associated leakage inductance in the parallel model of the induction motor*, Annals of the University of Petrosani, Electrical Engineering, **2025**, ISSN 1454-8518, vol.27, pp. 97-106, indexată EBSCO.
<https://www.upet.ro/annals/electrical/doc/2025/09%20STOICUTA.pdf>
https://openurl.ebsco.com/EPDB%3Agcd%3A9%3A29233737/detailv2?sid=ebsco%3Aplink%3Aresult-item&id=ebsco%3A192079144&bquery=Stoicuta&page=1&link_origin=www.google.com&crl=f
2. **O. Stoicuta**, V. C Sîrb, N. Stoicuța, *Direct rotor flux-oriented control of induction motors using hysteresis current controllers and VSI inverter*, Annals of the University of Petrosani, Electrical Engineering, **2024**, ISSN 1454-8518, vol.26, pp. 391-402, indexată EBSCO. <https://www.upet.ro/annals/electrical/doc/2024/36%20Stoicuta.pdf>
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3. **O. Stoicuta**, T. Pana, *Comparative study of three adaptive observers for sensorless vector control systems*, Acta Technica Corviniensis-Bulletin of Engineering, vol.15, no.3, pp.13 – 20, **2022**, e-ISSN: 2067-3809, indexată EBSCO.
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4. **O. Stoicuta**, *Mathematical modeling and simulation of induction motor with eddy current leakage inductance in the core loss branch*, Annals of the University of Petrosani, Electrical Engineering, **2022**, ISSN 1454-8518, vol.24, pp. 117-128, indexată EBSCO.
<https://www.upet.ro/annals/electrical/doc/2022/Annals%20Electric%202022%20v1.pdf>
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5. N. Stoicuta, **O. Stoicuta**, *Corruption in the EU-27. time analysis of the corruption perception index*, Transylvanian Journal of Mathematics & Mechanics (TJMM), vol.14, no.1, pp.73-83, **2022**, ISSN: 2067-239X, indexată EBSCO.
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https://openurl.ebsco.com/EPDB%3Agcd%3A1%3A10924385/detailv2?sid=ebsco%3Aplink%3Aresult-item&id=ebsco%3A158536763&bquery=Stoicuta&page=1&link_origin=www.google.com&crl=f
6. **O. Stoicuta**, *A New Gain Matrix of the Rotor Flux Luenberger Observer for Induction Motors – Rotating Method of the Eigenvalues*, Annals of the University of Petrosani, Electrical Engineering, **2021**, ISSN: 1454-8518, vol. 23, indexată EBSCO.
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7. **O. Stoicuta**, *The Luenberger-Peng observer analysis for sensorless vector control systems of induction motors*, Annals of the University of Petrosani, Electrical Engineering, ISSN 1454-8518, **2020**, vol.22, indexata EBSCO.
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 8. R Marcus, **O. Stoicuta**, C. Rus, B. Tomus, *Exploring the possibilities to increase the autonomy of an electric vehicle*, 9th International Symposium on Occupational Health and Safety – SESAM, MATEC Web of Conferences, vol. 305, pp.1-6, **2020**, Petrosani, Romania, ISSN: 2261-236X, indexat EBSCO.
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 9. **O. Stoicuta**, L.Bogdanffy, *Electrical and mechanical parameters estimation of an induction motor*, Annals of the University of Petrosani, Electrical Engineering, vol.19, **2017**, ISSN: 1454-8518, indexată EBSCO.
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 10. **O. Stoicuta**, L.Bogdanffy, *Simulating the speed and rotor resistance observer in sensorless vector control systems with induction motors*, Annals of the University of Petrosani, Electrical Engineering, vol.19, pp.113-128, **2017**, ISSN: 1454-8518, indexată EBSCO.
<https://www.upet.ro/annals/electrical/doc/Electrical%202017%20v1.pdf>
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 11. **O. Stoicuta**, *The utilization of the S-Function block in simulation of the Lunberger rotor flux observer for induction motors*, Annals of the University of Petrosani, Electrical Engineering, vol.18, **2016**, ISSN: 1454-8518, indexată EBSCO.
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G6. Articole publicate în volumele unor conferințe naționale neindexate

1. C. Mândrescu, **O. Stoicuța**, *The optimization of the energy losses through Joule effect by means of a combined criterion of optimization with a component of minimum time and one of minimal energy in case of the reverse of an engine with continuous current with separate excitation and constant flow*, in *Proceeding 11th National Conference on Electric Drives*, CNAE – 2002, Galați, **2002**, pp. 263-266, ISBN: 973-8352-83-5.
2. V. Zamfir, M. Săplăcan, H.M. Vârgolici, **O. Stoicuța**, *Sinteza mecanismului patrulater generator de traiectorii cu bielă conducătoare*, publicată în vol. 2 a Sesiunii Naționale cu Participare Internațională de Comunicări Tehnico-Științifice *Relansare Economică și Socială*, Braila, Romania, **2001**, vol.2, pp. 449-454, ISBN: 973-810-51-4.

H) Proiecte de cercetare-dezvoltare-inovare

1. **O. Stoicuța - membru** (cercetător în informatică – COD 214917) în proiectul *Sandbox holistic de securitate cibernetică pentru testarea soluțiilor de inteligență artificială*, Cod SMIS 333770, **2025**, program: Programul Creștere Inteligentă, Digitalizare și Instrumente Financiare 2021–2027 (PCIDIF/POCIDIF), beneficiar: Aria United S.R.L., Parteneri (consorțiu): Aria United S.R.L., Canary Technology Innovations S.R.L., Universitatea din Petroșani și Softtehnica S.R.L., durata 2 ani (mai exact 2 ani, 9 luni și 29 de zile); 17.11.2025 – 15.09.2028, valoare totală a proiectului: 49758902.44 lei, contract național câștigat prin competiție.
<https://poc.research.gov.ro/uploads/pocidif/rezultate/masura-1-1-2-159.pdf>
2. **O. Stoicuța - membru** (expert învățământ 3 – COD 235104) în proiectul *VISION – Valorificare individuală prin Studii, Inovație, Orientare și Noutate*, CNFIS-FDI-F-0048, **2025**, durată 1 an, valoare 170000 lei (sumă finanțată de MEC – Consiliul Național pentru Finanțarea Învățământului Superior - CNFIS), contract național câștigat prin competiție, https://vision.upet.ro/?page_id=722
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3. **O. Stoicuța - director proiect de cercetare**, titlul proiectului: *Analysis and control of processes from the “PLASMASUN” component*, acronym: PLASMA SUN – UPET, **2024**, nr. proiect: 10/26.11.2024, Universitatea din Petroșani, beneficiar ERMAFA Environmental Technologies GmbH, Viena, Austria, durata 2 ani (1.12.2024 – 30.11.2026), contract internațional câștigat prin competiție, valoare = 30000 Euro.
<https://ermafa.at/plasma-technology/>
4. **O. Stoicuța - director proiect de cercetare**, titlul proiectului: *Analysis and control of the main processes from the “REDREC” component*, acronym: REDREC – UPET, **2024**, nr. proiect: 09/26.11.2024, Universitatea din Petroșani, beneficiar ERMAFA Environmental Technologies GmbH, Viena, Austria, durata 2 ani (1.12.2024 – 30.11.2026), contract internațional câștigat prin competiție, valoare = 60000 Euro.
<https://ermafa.at/redmud-recycling/>
5. **O. Stoicuța - director contract**, *Structuri noi de sisteme de control vectorial cu dublă orientare a motoarelor de inducție cu rotorul în scurtcircuit, performante energetice, pentru automobile pur electrice*, acronimul proiectului 2FOC-RFSO, **2023**, nr. contract: 4280/31.05.2023, cod proiect CIFIC 3, beneficiar Universitatea din Petroșani,

contract câștigat prin competiție internă în cadrul Universității din Petroșani, valoare 100000 lei.

<https://www.upet.ro/cercetare/propuneri-proiecte-cercetare/>

6. **O. Stoicuța - membru** (coordonator domeniu de cercetare în perioada 1.06.2020 – 30.11.2020) în proiectul *Promovarea excelenței în cercetarea fundamentală și aplicativă – prioritate strategică în cadrul Universității din Petroșani*, CNFIS-FDI-2020-0199, **2020**, durată 1 an, valoare 290000 lei (sumă finanțată de MEC – Consiliul Național pentru Finanțarea Învățământului Superior - CNFIS), contract național câștigat prin competiție. <http://www.cnfis.ro/wp-content/uploads/2020/03/FDI2020-Rezultate-finaleCNFIS-lista-proiecte-publicare.pdf>
7. **O. Stoicuța - membru** (expert elaborare material didactic) în proiectul *Educația, o șansă pentru Valea Jiului*, POCU, cod proiect POCU/320/6/21/122596; Universitatea din Petroșani, partener SIVECO România S.A, **2018**, durata 15.10.2018 – 15.04.2021, program de finanțare: Programul Operațional Capital Uman (POCU), axa prioritară 6 – Educație și competențe, valoare totală de 4125166,55 lei, contract național câștigat prin competiție. <https://www.upet.ro/proiecte/122596/>
8. **O. Stoicuța - membru**, *Întocmire măsurători de performanță și raport tehnic pentru determinarea unor indicatori necesari calificării producției de energie electrică în cogenerare de înaltă eficiență pentru grupul energetic nr.4 de 150 MW din Complexul Energetic Hunedoara S.A. – Sucursala Electrocentrale Paroșeni*, nr.3/14.01.2015, Universitatea din Petroșani, valoare 50000 lei, **2015**.
9. **O. Stoicuța - director de contract**, *Dezvoltarea software-ului pentru controlul și monitorizarea proceselor din cadrul instalației Energiewandler – 2*, contract de cercetare cu agenți economici din Olanda, beneficiar Delta T. Plan Ned din Olanda, nr. 21/08.11.2013, durată 1 an, Universitatea din Petroșani, contract internațional câștigat prin competiție, valoare 11203.83 USD (Factura 1 = 589.85 USD; Factura 2 = 9870.47 USD; Factura 3 = 743.51 USD; Total = 11203.83 USD), **2013**.
10. **O. Stoicuța - director de contract**, *Implementarea și utilizarea unor noi strategii de marketing – mentenanță software și hardware*, contract de cercetare cu agenți economici din Austria, beneficiar Velen Marketing Vision&Innovations E.U din Viena, Austria, nr. 1/14.01.2013, Universitatea din Petroșani, valoare 500 Euro, **2013**.
11. **O. Stoicuța - director de contract**, *Construcția panoului de comandă automată a instalației Energiewandler-2 și a ansamblului turbină – generator electric*, contract de cercetare cu agenți economici din Austria, beneficiar Kleedofor Friedrich din Austria, nr. 14/14.11.2012, Universitatea din Petroșani, valoare 500 Euro, **2012**.
12. **O. Stoicuța - director de contract**, *Sistem de comandă automată a instalației Energiewandler, echipată cu PLC-ul FX3U-16MR/ES, partea software*, contract de cercetare cu agenți economici din Austria, beneficiar Kleedofor Friedrich din Austria, nr. 9/23.07.2012, Universitatea din Petroșani, valoare 500 Euro, **2012**.
13. **O. Stoicuța - membru** în contractul, *Elaborare audit energetic pentru un contur definit la E.M. Lonea*, nr.10/20.07.2012, Universitatea din Petroșani, beneficiar E.M. Lonea, valoare 20000 lei, **2012**.
14. **O. Stoicuța – membru** în contractul, *Fundamentarea teoretică și simularea proceselor termofluidodinamice privind instalația Energiewandler*, nr. 8/15.05.2012, Universitatea din Petroșani, contract de cercetare cu agenți economici din Austria, beneficiar Kleedofor Friedrich, Austria, valoare 500 Euro, **2012**.
15. **O. Stoicuța – membru** în contractul, *Măsurători paralele prin metode de referință a sistemelor de măsurare on-line la emisiile poluante de la S.C. Electrocentrale Deva S.A. pentru anul 2012*, nr. CD3409/12.04.2012, Universitatea din Petroșani, beneficiar S.C. Electrocentrale Deva S.A., valoare 9600 lei, **2012**.

16. **O. Stoicuța – responsabil teamă**, *Studiul stabilității sistemelor de reglare vectorială cu motoare de inducție de putere medie*, în contractul de finanțare național, de tip A, cod CNC SIS 993, nr. 2930/2006 – 2007, Universitatea Tehnică din Cluj – Napoca, durata 24 luni (2 ani), titlul contractului: *Studiul stabilității sistemelor de acționare electrică vectoriale, inteligente, performante energetic, cu motoare de inducție, pentru automobile electrice*, valoare 140000 lei, contract național câștigat prin competiție, 2006.
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17. **O. Stoicuța – membru** (responsabil partea software) în contractul *Sistem de comanda vectorială cu DSP pentru sisteme de acționare cu motoare de inducție din gama 10-500 kW, parte de software*, nr. 6/2005, Universitatea din Petroșani, contract de cercetare cu agenți economici din România, beneficiar S.C. IndaEltrac S.A, Craiova, durata 1 an, valoare 100000000 ROL.
18. **O. Stoicuța – membru** în cadrul grantului național *Invertor orientat software pentru conducerea inteligentă a acționărilor electrice cu motor de inducție*, cod CNC SIS 74, nr. 1067 / 2002, Universitatea din Petroșani.

I) Proiect de diplomă – Licență: Automatică și Informatică Industrială, 2001

1. **Stoicuța Olimpiu - Costinel** - *Realizarea unui automat programabil de patru biți în logică programabilă*, Proiect de diplomă 2001, Coordonator: Prof.univ.dr.ing. Pop Emil, Universitatea din Petroșani

J) Disertație – Master: Tehnici de Conducere Automata a Proceselor, 2006

1. **Stoicuța Olimpiu - Costinel** - *Analiza și sinteza estimatorului Luenberger utilizat în cadrul unui sistem de acționare electric de tip vectorial cu motor de inducție*, disertație 2006, Coordonator: Conf.univ.dr.ing. Mândrescu Corneliu, Universitatea din Petroșani.

Total:

- **Cărți (total 10):**
 - 1 carte la o editura din străinătate după 23.02.2015;
 - 9 cărți la edituri din țară, recunoscute CNC S (din care 5 după 23.02.2015);
- **articole în reviste (total 72 de articole științifice):**
 - 10 articole în reviste indexate ISI (din care 7 după 23.02.2015);
 - 2 articole în reviste indexate SCOPUS (din care 1 după 23.02.2015);
 - 1 articol într-o revistă indexată INSPEC;
 - 27 articole în reviste indexate EBSCO (din care 14 după 23.02.2015);
 - 8 articole în reviste indexate COPERNICUS (din care 3 după 23.02.2015);
 - 1 articol indexat în Mathematical Reviews, publicat după 23.02.2015;
 - 1 articol indexat în WorldCat;
 - 22 de articole în reviste neindexate;
- **publicații în extenso, apărute în volumele unor manifestări științifice (total 90 de lucrări):**
 - 27 de lucrări în volume indexate ISI (din care 14 după 23.02.2015);
 - 5 lucrări în volume indexate SCOPUS (din care 4 după 23.02.2015);
 - 1 lucrare într-un volum indexat Springer după 23.02.2015;
 - 2 lucrări în volume indexate WorldCat;

- 53 de lucrări în volumele unor conferințe internaționale neindexate (din care 2 după 23.02.2015);
- 2 lucrări în volumele unor conferințe naționale neindexate;
- proiecte de cercetare-dezvoltare-inovare (total 18):
 - 7 după 23.02.2015 (din care 4 în calitate de membru, 2 în calitate de director proiect de cercetare și 1 în calitate de director contract de cercetare).
 - 11 înainte de 23.02.2015 (din care 6 în calitate de membru, 4 în calitate de director contract de cercetare, iar în unul am fost responsabil de temă).

Total: 10 cărți, 162 de articole și lucrări științifice, 18 proiecte de cercetare.

15.07.2026

Conf. dr. habil. ing. Stoicuța Olimpiu – Costinel

