

LISTA DE LUCRĂRI

Prof. dr. ing. Bădoiu Dorin George

(A) Teza(-ele) de doctorat

A1. **Bădoiu D.G.**, *Cercetări privind cinematica și dinamica elementelor structurale ale unor roboți industriali în vederea optimizării dimensiunilor*, Universitatea Petrol-Gaze din Ploiești, Ploiești, 1996

(B) Cărți

B1. Cărți publicate în edituri internaționale de prestigiu

B2. Cărți de specialitate publicate în edituri naționale, recunoscute de CNCSIS

B2.1. **Bădoiu D.G.**, Toma G., *Sisteme robotice*, Editura Universității Petrol-Gaze din Ploiești (cod CNCSIS 87), 171p., ISBN 978-973-719-804-4, 2020

B2.2. **Bădoiu D.G.**, Toma G., *Structura și cinematica mecanismelor cu bare*, Editura Universității Petrol-Gaze din Ploiești (cod CNCSIS 87), 229 p., ISBN 978-973-719-761-0, 2019

B2.3. Minescu M., Ionescu G.C., Nae I., Laudacescu E., **Bădoiu D.G.**, *Roboți industriali și sisteme flexibile de fabricație*, Editura Universității Petrol-Gaze din Ploiești (cod CNCSIS 87), 245 p., ISBN 978-973-719-447-3, Ploiești, 2012

B2.4. **Bădoiu D.G.**, *Mecanica Roboților*, Editura Universitatii Petrol-Gaze din Ploiesti (cod CNCSIS 87), 275 p., ISBN 973-719-101-3, 2006

B2.5. **Bădoiu D.G.**, *Analiza dinamică a mecanismelor și mașinilor*, Editura Didactică și Pedagogică (cod CNCSIS 165), 210 p., ISBN 973-30-2451-1, Bucuresti, 2003

B2.6. Vasilescu S., Talle V., **Bădoiu D.G.**, *Rezistența Materialelor. Tehnici de calcul și proiectare*, Editura Ilex (cod CNCSIS 83), 166 p., ISBN 973-85511-1-0, Bucuresti, 2002

B2.7. **Bădoiu D.G.**, *Analiza structurală și cinematică a mecanismelor*, Editura Tehnică (cod CNCSIS 166), 208 p., ISBN 973-31-2044-8, București, 2001

B2.8. Eparu I., **Bădoiu D.G.**, *Elemente de mecanică teoretică și de modelare a structurilor de roboți industriali*, Editura Tehnică (cod CNCSIS 166), 248 p., ISBN 973-31-1117-1, Bucuresti, 1997

Indrumare de laborator sau proiect, culegeri de probleme

B2.9. Panait Gh., **Bădoiu D.G.**, Florea I, Sava M., *Indrumar de lucrări de laborator și lucrări aplicative de mecanisme și mecanica roboților*, Editura Universitatii Petrol-Gaze din Ploiesti (cod CNCSIS 87), 140 p., 2004

B2.10. Panait Gh., **Bădoiu D.G.**, Florea I, Sava M., *Teoria mecanismelor si masinilor - Indrumar de lucrari de laborator si lucrari aplicative*, Editura Sinteze, 86 p., ISBN 973-9321-13-5, Ploiesti, 1998

B2.11. **Bădoiu D.G.**, *Probleme de analiza pozițională a roboților industriali*, Editura Universitatii Petrol-Gaze din Ploiești (cod CNCSIS 87), 133 p., Ploiești, 1994

B3. Cursuri în format electronic

B3.1. **Bădoiu D.G.**, *Mecanisme și organe de mașini*, Suport curs, 150 pag., Platforma e-learning a Universității Petrol-Gaze din Ploiești, 2019

B3.2. **Bădoiu D.G.**, *Robotică*, Suport curs, 144 pag., Platforma e-learning a Universității Petrol-Gaze din Ploiești, 2020

B3.3. **Bădoiu D.G.**, *Mecanisme*, 81 pag., Curs dezvoltat pe platforma SIGMA în cadrul programului POSDRU 55585

(C) Articole

C.1 Articole în reviste cotate sau indexate ISI

C.1.1. Nită A., Laudacescu E., Petrescu M.G., Dumitru T., Burlacu A., **Bădoiu D.G.**, Tănase M., *Experimental Research Regarding the Effect of Mineral Aggregates on the Wear of Mixing Blades of Concrete Mixers*, Materials, 2023,16, 5047, <https://doi.org/10.3390/ma16145047>

C.1.2. **Bădoiu D.G.**, *Research Concerning the Movement Equation of the Mechanism of the Conventional Sucker Rod Pumping Units*, Revista de Chimie, vol. 70, nr. 7, 2019, pag. 2477-2480, ISSN 0034-7752, <https://revistadechimie.ro/>; <https://www.webofscience.com/wos/woscc/full-record/WOS:000485843500037>

C.1.3. **Bădoiu D.G.**, *Research Concerning the Use of Polynomial Functions in the Study of the Conventional Sucker Rod Pumping Units*, Revista de Chimie, vol. 70, nr. 4, 2019, pag. 1223-1227, ISSN 0034-7752, <https://revistadechimie.ro/>; <https://www.webofscience.com/wos/woscc/full-record/WOS:000469387200023>

C.1.4. **Bădoiu D.G.**, Toma G., *Research Concerning the Predictive Evaluation of the Motor Moment at the Crankshaft of the Conventional Sucker Rod Pumping Units*, Revista de Chimie, vol.

70, nr. 2, 2019, pag. 378-381, ISSN 0034-7752, <https://revistadechimie.ro/>;

<https://www.webofscience.com/wos/woscc/full-record/WOS:000461982200005>

C.1.5. **Bădoiu D.G.**, Toma G., *Research Concerning the Correlations Between Some Experimental Results in the Case of a Sucker Rod Pumping Installation*, Revista de Chimie, vol. 69, nr. 11, 2018, pag. 3060-3063, ISSN 0034-7752, <https://revistadechimie.ro/>;

<https://www.webofscience.com/wos/woscc/full-record/WOS:000451931500021>

C.1.6. **Bădoiu D.G.**, Toma G., *Research Concerning the Kinetostatic Analysis of the Mechanism of the Conventional Sucker Rod Pumping Units*, Revista de Chimie, vol. 69, nr. 7, 2018, pag. 1855-1859, ISSN 0034-7752, <https://revistadechimie.ro/>;

<https://www.webofscience.com/wos/woscc/full-record/WOS:000444595700052>

C.1.7. **Bădoiu D.G.**, Petrescu M.G., Antonescu N.N., Toma G., *Research concerning the balancing of a plane mechanism*, IOP Conference Series-Materials Science and Engineering, Vol. 295, 2018, DOI: 10.1088/1757-899X/295/1/012016, WOS:000448617300016;

<https://www.webofscience.com/wos/woscc/full-record/WOS:000448617300016>

C.1.8. **Bădoiu D.G.**, Petrescu M.G., Antonescu N.N., Toma G., *Research concerning the evaluation of the connection forces in the joints of the sucker rod pumping units mechanism*, IOP Conference Series-Materials Science and Engineering, Vol. 295, 2018, DOI: 10.1088/1757-899X/295/1/012020, WOS:000448617300020; <https://www.webofscience.com/wos/woscc/full-record/WOS:000448617300020>

<https://www.webofscience.com/wos/woscc/full-record/WOS:000448617300020>

C.1.9. **Bădoiu D.G.**, Petrescu M., Toma G., Helthuis J., *On the Generation of Complex Trajectories Using a Robotic System with Six Degrees of Freedom*, Applied Mechanics and Materials, Vol. 657, 2014, DOI: 10.4028/www.scientific.net/AMM.657.803, WOS:000348898000157; <https://www.webofscience.com/wos/woscc/full-record/WOS:000348898000157>

<https://www.webofscience.com/wos/woscc/full-record/WOS:000348898000157>

C.1.10. **Bădoiu D.G.**, Toma G., *Research Concerning the Identification of Some Parameters of a Sucker Rod Pumping Unit*, Revista de Chimie, vol. 68, nr. 10, 2017, pag. 2289-2292, ISSN 0034-7752, <https://revistadechimie.ro/>; <https://www.webofscience.com/wos/woscc/full-record/WOS:000416750000017>

<https://www.webofscience.com/wos/woscc/full-record/WOS:000416750000017>

C.1.11. Toma G., Pupazescu A., **Bădoiu D.G.**, *Simulation of the Sucker Rod Column Dynamics for Different Pumping Regimes*, Revista de Chimie, vol. 68, nr. 11, 2017, pag. 2593-2596, ISSN 0034-7752, (aut.coresp), <https://revistadechimie.ro/>;

<https://www.webofscience.com/wos/woscc/full-record/WOS:000416751800026>

C.1.12. **Bădoiu D.G.**, Toma G., *On a dynamic optimisation problem of the quadrilateral mechanism*, Journal of the Balkan Tribological Association, Vol.: 22, Issue: 1, 2016, pag. 250-260,

ISSN 1310-4772, <http://www.scibulcom.net/>, WOS:000374619000024;

<https://www.webofscience.com/wos/woscc/full-record/WOS:000374619000024>

C.1.13. **Bădoiu D.G.**, Petrescu M.G., Toma G., *On the analysis and synthesis of the quadrilateral mechanism*, Journal of the Balkan Tribological Association, Vol.: 20, Issue: 2, 2014, pag. 161-168, ISSN 1310-4772, <http://www.scibulcom.net/>, WOS:000338972700001;

<https://www.webofscience.com/wos/woscc/full-record/WOS:000338972700001>

C.1.14. **Bădoiu D.G.**, Petrescu M., Bucuroiu R., *Research concerning the influence of constructive errors on the positioning of the robots structures*, Metalurgia International, Vol. 14, Issue: 7, 2009, pag. 97-101, ISSN: 1582-2214, WOS:000268551100020;

<https://www.webofscience.com/wos/woscc/full-record/WOS:000268551100020>

C.1.15. **Bădoiu D.G.**, Petrescu M., *On the analysis and synthesis of a manipulator robot system*, Metalurgia International, Vol. 14, Issue: 7, 2009, pag. 58-61, ISSN: 1582-2214, WOS:000268716400012; [https://www.webofscience.com/wos/woscc/full-](https://www.webofscience.com/wos/woscc/full-record/WOS:000268716400012)

[record/WOS:000268716400012](https://www.webofscience.com/wos/woscc/full-record/WOS:000268716400012)

C.2 Articole în reviste indexate în alte baze de date internaționale de referință pentru domeniu, care fac un proces de selecție a revistelor pe baza unor criterii de performanță

C.2.1. **Bădoiu D.G.**, Toma G., *Research concerning the dynamics of plane mechanisms*, Romanian Journal of Petroleum & Gas Technology, VOL. III (LXXIV), No. 1, 2022,

http://jpgt.upg-ploiesti.ro/wp-content/uploads/2022/06/07_Articol-jurnal-UPG-nr-1_2022_Badoiu-D-Toma-G.pdf

C.2.2. **Bădoiu D.G.**, *Research on establishing the differential model of the robotic mechanisms*, Romanian Journal of Petroleum & Gas Technology, VOL. III (LXXIV), No. 1, 2022,

http://jpgt.upg-ploiesti.ro/wp-content/uploads/2022/06/05_Articol-jurnal-UPG-nr-1_2022_Badoiu-D.pdf

C.2.3. **Bădoiu D.G.**, *Research concerning the static balancing of a multiloop linkage*, Romanian Journal of Petroleum & Gas Technology, VOL. II (LXXIII), No. 1, 2021, [http://jpgt.upg-](http://jpgt.upg-ploiesti.ro/wp-content/uploads/2021/06/08_RJPGT_no.1_2021_Badoiu-D.pdf)

[ploiesti.ro/wp-content/uploads/2021/06/08_RJPGT_no.1_2021_Badoiu-D.pdf](http://jpgt.upg-ploiesti.ro/wp-content/uploads/2021/06/08_RJPGT_no.1_2021_Badoiu-D.pdf)

C.2.4. Toma G., **Bădoiu D.G.**, *Research concerning the dynamic analysis of a crank and connecting rod mechanism*, Romanian Journal of Petroleum & Gas Technology, VOL. I (LXXII),

No. 2, 2020, [http://jpgt.upg-ploiesti.ro/wp-content/uploads/2020/12/5_2020_nr-](http://jpgt.upg-ploiesti.ro/wp-content/uploads/2020/12/5_2020_nr-2_Toma_Badoiu.pdf)

[2_Toma_Badoiu.pdf](http://jpgt.upg-ploiesti.ro/wp-content/uploads/2020/12/5_2020_nr-2_Toma_Badoiu.pdf)

C.2.5. **Bădoiu D.G.**, Toma G., *Analysis of the dynamic response of the mechanism of conventional sucker rod pumping units*, Revista de Chimie, vol. 71, nr. 1, 2020, pag. 395-399, ISSN 0034-7752, <https://revistadechimie.ro/>;

<https://www.scopus.com/authid/detail.uri?authorId=26434189500>

C.2.6. **Bădoiu D.G.**, Toma G., *Research concerning the optimization of a mechanism with two independent contours*, Romanian Journal of Petroleum & Gas Technology, VOL. I (LXXII), No. 2, 2020, http://jsgt.upg-ploiesti.ro/wp-content/uploads/2020/12/1_2020_nr-2_Badoiu_Toma.pdf

C.2.7. **Bădoiu D.G.**, Toma G., *Research on designing a multiloop planar linkage*, [IOP Conference Series: Materials Science and Engineering](#), Volume 659, Issue 1, 2019, Article number 012001, 9th International Scientific Conference on Research and Development of Mechanical Elements and Systems, IRMES 2019; University of Kragujevac, Faculty of Engineering Kragujevac; Serbia; 5 September 2019 through 7 September 2019; Code 154497, <https://www.scopus.com/record/display.uri?eid=2-s2.0-85075341159&origin=resultslist&sort=plf-f&src=s&sid=becd9792a3d8550449f394122017b235&sot=autdocs&sdt=autdocs&sl=18&s=AU-ID%2826434189500%29&relpos=3&citeCnt=0&searchTerm=>.

C.2.8. **Bădoiu D.G.**, *On an Optimal Generation of the Trajectory in the Case of a Robotic Mechanism with Four Degrees of Freedom*, Buletinul Universității Petrol-Gaze din Ploiești, Seria Tehnica, Vol LXIX, No. 1, pag. 31-36, 2017, ISSN 1224-8495, https://scholar.google.com/citations?view_op=view_citation&hl=en&user=7uMpMX8AAAAJ&sortBy=pubdate&citation_for_view=7uMpMX8AAAAJ:iH-uZ7U-co4C

C.2.9. Toma G., **Bădoiu D.G.**, *On the Variation of the Motor Moment in the Case of a Total Statically Balanced Quadrilateral Mechanism*, Buletinul Universității Petrol-Gaze din Ploiești, Seria Tehnica, Vol LXIX, No. 1, pag. 69-74, 2017, ISSN 1224-8495, https://scholar.google.com/citations?view_op=view_citation&hl=en&user=7uMpMX8AAAAJ&sortBy=pubdate&citation_for_view=7uMpMX8AAAAJ:r0BpntZqJG4C

C.2.10. **Bădoiu D.G.**, *Research Concerning the Functioning of a Plane Mechanism*, Buletinul Universității Petrol-Gaze din Ploiești, Seria Tehnica, Vol LXIX, No. 2, pag. 39-44, 2017, ISSN 1224-8495, https://scholar.google.com/citations?view_op=view_citation&hl=en&user=7uMpMX8AAAAJ&sortBy=pubdate&citation_for_view=7uMpMX8AAAAJ:bEWYMUwI8FkC

C.2.11. **Bădoiu D.G.**, *On the Numerical Solving of the Inverse Geometric Model of a Robotic Mechanism with Six Degrees of Freedom*, Buletinul Universității Petrol-Gaze din Ploiești, Seria Tehnica, Vol LXVIII, No. 1, pag. 59-64, 2016, ISSN 1224-8495,

https://scholar.google.com/citations?view_op=view_citation&hl=en&user=7uMpMX8AAAAJ&sortby=pubdate&citation_for_view=7uMpMX8AAAAJ:hFOr9nPyWt4C

C.2.12. **Bădoiu D.G.**, *Research Concerning the Variation of the Forces in the Joints of a Slider Crank Mechanism at the Change of the Running Regime*, Buletinul Universității Petrol-Gaze din Ploiești, Seria Tehnica, Vol LXVIII, No. 4, pag. 43-48, 2016, ISSN 1224-8495, <http://www.bulletin.upg-ploiesti.ro/>.

C.2.13. **Bădoiu D.G.**, *On the Positional Synthesis of a Mechanism with Two Independent Contours*, Buletinul Universității Petrol-Gaze din Ploiești, Seria Tehnica, Vol LXVII, No. 4, 2015, ISSN 1224-8495, <http://www.bulletin.upg-ploiesti.ro/>.

C.2.14. **Bădoiu D.G.**, *On the Establishing and Solving of the Movement Equation in the Case of the Plane Mechanisms*, Buletinul Universității Petrol-Gaze din Ploiești, Seria Tehnica, Vol LXVII, No. 3, pag. 87-93, 2015, ISSN 1224-8495, https://scholar.google.com/citations?view_op=view_citation&hl=en&user=7uMpMX8AAAAJ&sortby=pubdate&citation_for_view=7uMpMX8AAAAJ:4JMBOYKVnBMC

C.2.15. **Bădoiu D.G.**, *On the movement equation of the quadrilateral mechanism*, Buletinul Universității Petrol-Gaze din Ploiești, Seria Tehnica, Vol. LXVII, No. 2, 2015, pag. 67-72, ISSN 1224-8495, https://scholar.google.com/citations?view_op=view_citation&hl=en&user=7uMpMX8AAAAJ&start=20&pagesize=80&sortby=pubdate&citation_for_view=7uMpMX8AAAAJ:RHpTSmoSYBkC

C.2.16. Toma G., **Bădoiu D.G.**, *Research concerning the calculus of the equilibrium moment in the case of a plane mechanism using the dynamic model*, Buletinul Universității Petrol-Gaze din Ploiești, Seria Tehnica, Vol. LXVII, No. 2, 2015, pag. 93-98, ISSN 1224-8495, https://scholar.google.com/citations?view_op=view_citation&hl=en&user=7uMpMX8AAAAJ&start=20&pagesize=80&sortby=pubdate&citation_for_view=7uMpMX8AAAAJ:Qo2XoVZTnwC

C.2.17. **Bădoiu D.G.**, *On the calculus of the equilibrium moment for a mechanism with three independent contours*, Buletinul Universității Petrol-Gaze din Ploiești, Seria Tehnica, Vol. LXVII, No. 1, 2015, pag. 99-104, ISSN 1224-8495, https://scholar.google.com/citations?view_op=view_citation&hl=en&user=7uMpMX8AAAAJ&start=20&pagesize=80&sortby=pubdate&citation_for_view=7uMpMX8AAAAJ:e5wmG9Sq2KIC

C.2.18. Toma G., Pupazescu Al., **Bădoiu D.G.**, *On the calculus of some cinematic parameters of the sucker rod pumping units*, Buletinul Universității Petrol-Gaze din Ploiești, Seria Tehnica, Vol. LXVII, No. 1, 2015, pag. 93-98, ISSN 1224-8495, <http://www.bulletin.upg-ploiesti.ro/>.

C.2.19. Toma G., Pupazescu Al., **Bădoiu D.G.**, *On the Kinematics of Some Sucker Rod Pumping Units*, Buletinul Universității Petrol-Gaze din Ploiești, Seria Tehnica, Vol LXVI, No. 3, pag. 95-100, 2014, ISSN 1224-8495,
https://scholar.google.com/citations?view_op=view_citation&hl=en&user=7uMpMX8AAAAJ&art=20&pagesize=80&sortby=pubdate&citation_for_view=7uMpMX8AAAAJ:KIAtU1dfN6UC

C.2.20. **Bădoiu D.G.**, *On the Positional and Cinematic Analysis of a Mechanism with Three Independent Contours*, Buletinul Universității Petrol-Gaze din Ploiești, Seria Tehnica, Vol LXVI, No. 2, pag. 55-58, 2014, ISSN 1224-8495,
https://scholar.google.com/citations?view_op=view_citation&hl=en&user=7uMpMX8AAAAJ&art=20&pagesize=80&sortby=pubdate&citation_for_view=7uMpMX8AAAAJ:3fE2CSJl8C

C.2.21. **Bădoiu D.G.**, *On an optimal choice of the configurations for the mechanism of the Mitsubishi RV-2AJ robot*, Buletinul Universității Petrol-Gaze din Ploiești, Seria Tehnica, Vol LXVI, No. 1, pag 85-88, 2014, ISSN 1224-8495,
https://scholar.google.com/citations?view_op=view_citation&hl=en&user=7uMpMX8AAAAJ&art=20&pagesize=80&sortby=pubdate&citation_for_view=7uMpMX8AAAAJ:kNdYIx-mwKoC

C.2.22. Nae I., **Bădoiu D.G.**, Toma G., *On the Establishment and Visualization of the Multiple Configurations of the Mitsubishi RV-1A Robot System*, Buletinul Universității Petrol-Gaze din Ploiești, Seria Tehnica, Vol LXVI, No. 1, pag. 73-78, 2014, ISSN 1224-8495,
https://scholar.google.com/citations?view_op=view_citation&hl=en&user=7uMpMX8AAAAJ&art=20&pagesize=80&sortby=pubdate&citation_for_view=7uMpMX8AAAAJ:ULOm3_A8WrAC

C.2.23. Toma G., Pupazescu Al., **Bădoiu D.G.**, *On a Synthesis Problem of the Mechanism of a Sucker Rod Pumping Unit*, Buletinul Universității Petrol-Gaze din Ploiești, Seria Tehnica, Vol LXV, No. 4, pag. 107-111, 2013, ISSN 1224-8495,
https://scholar.google.com/citations?view_op=view_citation&hl=en&user=7uMpMX8AAAAJ&art=20&pagesize=80&sortby=pubdate&citation_for_view=7uMpMX8AAAAJ:7PzIFSSx8tAC

C.2.24. **Bădoiu D.G.**, *On Complex Trajectories Generation with a Robotic Arm with Spherical Structure*, Buletinul Universității Petrol-Gaze din Ploiești, Seria Tehnica, Vol LXV, No. 4, pag. 121-124, 2013, ISSN 1224-8495,
https://scholar.google.com/citations?view_op=view_citation&hl=en&user=7uMpMX8AAAAJ&art=20&pagesize=80&sortby=pubdate&citation_for_view=7uMpMX8AAAAJ:MXK_kJrjxJIC

C.2.25. Toma G., **Bădoiu D.G.**, *On the Cinematic Analysis of a Mechanism of Fourth Class*, Buletinul Universității Petrol-Gaze din Ploiești, Seria Tehnica, Vol LXIV, No. 1, 2012, pag. 69-72, ISSN 1224-8495,

https://scholar.google.com/citations?view_op=view_citation&hl=en&user=7uMpMX8AAAAJ&art=20&pagesize=80&sortby=pubdate&citation_for_view=7uMpMX8AAAAJ:0EnyYjriUFMC

C.2.26. **Bădoiu D.G.**, *On the Differential Model of a Mitsubishi Robot*, Buletinul Universității Petrol-Gaze din Ploiești, Seria Tehnica, Vol LXIV, No. 1, 2012, pag. 45-50, ISSN 1224-8495,

https://scholar.google.com/citations?view_op=view_citation&hl=en&user=7uMpMX8AAAAJ&art=20&pagesize=80&sortby=pubdate&citation_for_view=7uMpMX8AAAAJ:8k81kl-MbHgC

C.2.27. Toma G., **Bădoiu D.G.**, *Research Concerning the Influence of Some Constructive Errors on the Dynamics of a Pumping Unit*, Buletinul Universității Petrol-Gaze din Ploiești, Seria Tehnica, Vol LXIII, No. 4, 2011, pag. 27-30, ISSN 1224-8495,

https://scholar.google.com/citations?view_op=view_citation&hl=en&user=7uMpMX8AAAAJ&art=20&pagesize=80&sortby=pubdate&citation_for_view=7uMpMX8AAAAJ:4DMP91E08xMC

C.2.28. **Bădoiu D.G.**, *On the Calculus of the Inverse Geometric Model of the Mitsubishi RV-1A Robot System*, Buletinul Universității Petrol-Gaze din Ploiești, Seria Tehnica, Vol LXIII, No. 4, 2011, pag. 21-26, ISSN 1224-8495, <http://www.bulletin.upg-ploiesti.ro/>.

C.2.29. Vasilescu S., **Bădoiu D.G.**, *Research Concerning the Variation of the Motor Moment in the Case of a Plane Mechanism*, Buletinul Universității Petrol-Gaze din Ploiești, Seria Tehnica, Vol LXIII, No. 3, 2011, pag. 1-4, ISSN 1224-8495, <http://www.bulletin.upg-ploiesti.ro/>.

C.2.30. **Bădoiu D.G.**, *On Determining the Solution of a Problem Concerning the Positioning and Orientation of the Lynx 6 Robot System*, Buletinul Universității Petrol-Gaze din Ploiești, Seria Tehnica, Vol LXIII, No. 3, 2011, pag. 15-18, ISSN 1224-8495, <http://www.bulletin.upg-ploiesti.ro/>.

C.2.31. **Bădoiu D.G.**, *Research Concerning the Optimized Positional Synthesis of the Lynx 5 Robot System*, Buletinul Universității Petrol-Gaze din Ploiești, Seria Tehnica, Vol LXIII, No. 2, 2011, pag. 15-18, ISSN 1224-8495, https://scholar.google.com/citations?view_op=view_citation&hl=en&user=7uMpMX8AAAAJ&art=20&pagesize=80&sortby=pubdate&citation_for_view=7uMpMX8AAAAJ:d1gkVwhDpl0C

C.2.32. Vasilescu S., **Bădoiu D.G.**, *On the Dynamic Analysis of a Family of Quadrilateral Mechanisms*, Buletinul Universității Petrol-Gaze din Ploiești, Seria Tehnica, Vol LXIII, No. 2, 2011, pag. 7-10, ISSN 1224-8495, https://scholar.google.com/citations?view_op=view_citation&hl=en&user=7uMpMX8AAAAJ&art=20&pagesize=80&sortby=pubdate&citation_for_view=7uMpMX8AAAAJ:2osOgNQ5qMEC

C.2.33. Graur V., Vasilescu Ș., **Bădoiu D.G.**, *The Influence of the Shear Force in the Deflections of Cantilevers with Variable Cross Sectional Area*, Buletinul Universității Petrol-Gaze

din Ploiești, Seria Tehnica, Vol LXIII, No. 2, 2011, pag. 25-30, ISSN 1224-8495,

https://scholar.google.com/citations?view_op=view_citation&hl=en&user=7uMpMX8AAAAJ&cst art=20&pagesize=80&sortby=pubdate&citation_for_view=7uMpMX8AAAAJ:UeHWp8X0CEIC

C.2.34. **Bădoiu D.G.**, *On the Calculus of the Equilibrium Moment in the Case of a Plane Mechanism*, Buletinul Universității Petrol-Gaze din Ploiești, Seria Tehnica, Vol LXII, No. 4B, 2010, pag. 23-28, ISSN 1224-8495,

https://scholar.google.com/citations?view_op=view_citation&hl=en&user=7uMpMX8AAAAJ&cst art=20&pagesize=80&sortby=pubdate&citation_for_view=7uMpMX8AAAAJ:u5HHmVD_uO8C

C.2.35. **Bădoiu D.G.**, *Research Concerning the Differential Model of the Mitsubishi Melfa RV-1A Robot System*, Buletinul Universității Petrol-Gaze din Ploiești, Seria Tehnica, Vol LXII, No. 4B, 2010, pag. 17-22, ISSN 1224-8495,

https://scholar.google.com/citations?view_op=view_citation&hl=en&user=7uMpMX8AAAAJ&cst art=20&pagesize=80&sortby=pubdate&citation_for_view=7uMpMX8AAAAJ:u-x6o8ySG0sC

C.2.36. **Bădoiu D.G.**, *On the positional analysis of a Mitsubishi robot system with six degrees of freedom*, Buletinul Universității Petrol-Gaze din Ploiești, Seria Tehnica, Vol LXII, No. 1, 2010, ISSN 1224-8495, pag. 39-44, ISSN 1224-8495,

https://scholar.google.com/citations?view_op=view_citation&hl=en&user=7uMpMX8AAAAJ&cst art=20&pagesize=80&sortby=pubdate&citation_for_view=7uMpMX8AAAAJ:9yKSN-GCB0IC

C.2.37. **Bădoiu D.G.**, *On the calculus of the necessary motor moment for the running of the plane mechanisms*, Buletinul Universității Petrol-Gaze din Ploiești, Seria Tehnica, Vol LXI, No. 4, 2009, pag. 79-82, ISSN 1224-8495,

https://scholar.google.com/citations?view_op=view_citation&hl=en&user=7uMpMX8AAAAJ&cst art=20&pagesize=80&sortby=pubdate&citation_for_view=7uMpMX8AAAAJ:qjMakFHDy7sC

C.2.38. **Bădoiu D.G.**, *Research concerning the dynamic analysis of plane mechanisms structures*, Buletinul Universității Petrol-Gaze din Ploiești, Seria Tehnica, Vol LXI, No. 2, 2009, pag. 29-32, ISSN 1224-8495,

https://scholar.google.com/citations?view_op=view_citation&hl=en&user=7uMpMX8AAAAJ&cst art=20&pagesize=80&sortby=pubdate&citation_for_view=7uMpMX8AAAAJ:IjCSPb-OGe4C

C.2.39. Tudor I., Rîpeanu R.G., **Bădoiu D.G.**, *Device and simulator for testing pairs of materials used for joints design*, Journal of the Balkan Tribological Association, vol. 12, nr. 3, 2006, pag. 262-266, ISSN 1310-4772, www.scibulcom.net.

C.3 Articole publicate în reviste naționale de categoriile B+ și B, în cotarea CNCSIS

C.3.1. **Bădoiu D.G.**, *Research concerning the positional model of the Lynx 6 robot system*,

Buletinul Universității Petrol-Gaze din Ploiești, Seria Tehnica, Vol LX , No. 1, 2008, pag. 53-58, ISSN 1224-8495.

C.3.2. **Bădoiu D.G.**, Stanciu L., *Research concerning the analysis of a robot structure used for orientation tasks*, Annals of Oradea University, Fascicle of management and technological engineering, Vol. VI (XVI), 2007, pag. 838-841, ISSN 1583-0691.

C.3.3. **Bădoiu D.G.**, *On the dynamics of a manipulator with the movement parameters imposed*, Annals of the University of Petrosani, Mechanical Engineering, 9 (XXXVI), 2007, pag. 5-8, ISSN 1454-9166.

C.3.4. **Bădoiu D.G.**, *On the synthesis of an anthropomorphic robot structure*, Annals of the University of Petrosani, Mechanical Engineering, 9 (XXXVI), 2007, pag. 9-14, ISSN 1454-9166.

C.3.5. **Bădoiu D.G.**, *Research concerning the design of the primary controller of the industrial robots mechanisms*, Buletinul Universității Petrol-Gaze din Ploiești, Seria Tehnica, Vol LVIII, No. 4, 2006, pag. 61-66, ISSN 1224-8495.

C.3.6. **Bădoiu D.G.**, *Research concerning the analysis and synthesis of the five-bar-link mechanism*, Bul. UPG, Seria Tehnica, Vol LVIII, No. 3, 2006, pag. 57-60, ISSN 1224-8495.

C.3.7. **Bădoiu D.G.**, Stanciu L., *Research concerning the calculus of the jacobian matrices corresponding to the industrial robots mechanisms*, Annals of Oradea University, Fascicle of management and technological engineering, Vol. V (XV), 2006, ISSN 1583-0691.

C.3.8. **Bădoiu D.G.**, *Cercetari privind influenta variatiei unor parametri geometrici ai structurii robotilor de tip Puma asupra pozitionarii obiectelor manipulate*, Buletinul Universității Petrol-Gaze din Ploiești, Seria Tehnica, Vol LVII , No. 4, 2005, pag. 53-56, ISSN 1224-8495.

C.3.9. **Bădoiu D.G.**, Tudor I., Rîpeanu R.G., *Stabilirea unor parametri functionali ai unui dispozitiv de testare a cuplurilor de materiale folosite in constructia articulatiilor*, Buletinul Universității Petrol-Gaze din Ploiești, Seria Tehnica, Vol LVII , No. 2, 2005, pag. 125-128, ISSN 1224-8495.

C.3.10. Popa Al., Vasilescu S., **Bădoiu D.G.**, Manea C., *Verificarea comportarii mecanice a unui corp de robinet*, Revista Constructia de Masini, nr. 5-6, pag. 1-3, 2004, ISSN 2248-0420.

C.3.11. Vasilescu S., **Bădoiu D.G.**, Talle V., Eparu I., Ghita I., *Analiza numerica a unui traseu de conducte*, Revista Constructia de Masini, nr. 9-10, 2003, pag. 66-68, ISSN 2248-0420.

C.3.12. Vasilescu S., **Bădoiu D.G.**, Talle V., Eparu I., Ghita I., *Analiza dinamica a unui mast*, Revista Constructia de Masini, nr. 9-10, 2003, pag. 61-66, ISSN 2248-0420.

C.3.13. Vasilescu S., **Bădoiu D.G.**, Talle V., Eparu I., Ghita I., *Algoritm general pentru calculul dinamic al masturilor prin metoda elementelor finite*, Revista Constructia de Masini, nr. 9-10, 2003, pag. 55-60, ISSN 2248-0420.

C.3.14. Vasilescu S., **Bădoiu D.G.**, Talle V., Eparu I., Ghita I., *Calculul static si de stabilitate pentru un mast MU 110*, Revista Constructia de Masini, nr. 9-10, 2003, pag. 50-54, ISSN 2248-0420.

C.3.15. Vasilescu S., **Bădoiu D.G.**, Talle V., Eparu I., Ghita I., *O metodologie de calcul a conductelor ingropate*, Revista Constructia de Masini, nr. 9-10, 2003, pag. 45-47, ISSN 2248-0420.

C.3.16. Ghita I., Vasilescu S., **Bădoiu D.G.**, Albulescu M., *Analiza comparativa a utilizării metodei elementelor finite de tip SHELL si BEAM 2D*, Revista Constructia de Masini, nr. 9-10, 2003, pag. 20-22, ISSN 2248-0420.

C.3.17. Vasilescu S., **Bădoiu D.G.**, Albulescu M., Ghita I., *Analiza modului de discretizare in elemente finite pentru un cilindru presurizat interior*, Revista Constructia de Masini, nr. 9-10, 2003, pag.4-6, ISSN 2248-0420.

C.3.18. Ghita I., Talle V., Vasilescu S., **Bădoiu D.G.**, *Analiza dinamica a unei garnituri de prajini de pompaj prin metoda elementelor finite*, Buletinul Universității Petrol-Gaze din Ploiești, Seria Tehnica, vol. LV, nr.4, 2003, pag. 88-96, ISSN 1224-8495.

C.3.19. **Bădoiu D.G.**, Grigore N., *Algoritm si program pentru calculul parametrilor de reglaj ai masinii de danturat conic in arc de cerc*, Buletinul Universității Petrol-Gaze din Ploiești, Seria Tehnica, vol. LIV, nr.3, 2002, pag. 115-118, ISSN 1224-8495.

C.3.20. Vasilescu S., **Bădoiu D.G.**, Talle V., Bataiosu B., *Vibratii libere ale unui traseu de conducte aferente unei statii de compresoare*, Revista Constructia de Masini, nr. 4-5, 2002, pag. 29-33, ISSN 2248-0420.

C.3.21. Vasilescu S., Talle V., **Bădoiu D.G.**, *Consideratii de rezistenta pentru un capac de inchidere rapida*, Revista Constructia de Masini, nr. 2-3, 2001, pag. 13-16, ISSN 2248-0420.

C.3.22. **Bădoiu D.G.**, Panait Gh., *Asupra determinarii matricei de inertie a robotilor industriali*, Buletinul Universității Petrol-Gaze din Ploiești, Seria Tehnica, vol. LII, nr.3, pag. 21-26, 2000, ISSN 1224-8495.

C.3.23. **Bădoiu D.G.**, Panait Gh., *Asupra comportarii dinamice a mecanismelor robotilor industriali*, Buletinul Universității Petrol-Gaze din Ploiești, Seria Tehnica, vol. LII, nr.3, 2000, pag. 15-20, ISSN 1224-8495.

C.3.24. Grigore N., **Bădoiu D.G.**, *Determinarea capacitatii portante a asamblarii cu mai multe perechi de inele tronconice*, Buletinul Universității Petrol-Gaze din Ploiești, Seria Tehnica, vol. LII, nr.3, 2000, pag. 11-14, ISSN 1224-8495.

C.3.25. Grigore N., **Bădoiu D.G.**, *Asupra capacitatii portante a asamblarii cu o pereche de inele tronconice*, Buletinul Universității Petrol-Gaze din Ploiești, Seria Tehnica, vol. LII, nr.3, 2000, pag. 5-10, ISSN 1224-8495.

C.3.26. **Bădoiu D.G.**, Panait Gh., *Contributii privind calculul momentului de inertie masic al volantului pe baza lucrului mecanic excedentar*, Buletinul Universității Petrol-Gaze din Ploiești, Seria Tehnica, vol. LII, nr.2, 2000, pag. 31-34, ISSN 1224-8495.

C.3.27. Grigore N., **Bădoiu D.G.**, *Studiul tensiunilor in asamblarile cu suduri de colt utilizand metoda elementelor finite*, Buletinul Universității Petrol-Gaze din Ploiești, Seria Tehnica, vol. LII, nr.2, 2000, pag. 231-234, ISSN 1224-8495.

C.3.28. Panait Gh., **Bădoiu D.G.**, Gherghe Gh., *Contributii asupra determinarii momentului de inertie masic al volantului in cazul mecanismelor plane*, Buletinul Universității Petrol-Gaze din Ploiești, Seria Tehnica, vol. LI, nr.1, 1999, pag. 363-370, ISSN 1224-8495.

C.3.29. Vasilescu S., **Bădoiu D.G.**, *Precizari privind calculul limita al cilindrilor actionati de o presiune interioara liniara*, Revista Constructia de Masini, nr. 6, 1999, pag. 12-14, ISSN 2248-0420.

C.3.30. Vasilescu S., **Bădoiu D.G.**, *Dimensionarea optima a rezervoarelor cilindrice cu fund plat*, Revista Constructia de Masini, nr.6, 1999, pag. 9-11, ISSN 2248-0420.

C.3.31. **Bădoiu D.G.**, *Cercetari privind analiza cinematica si dinamica a mecanismelor plane*, Buletinul Universității Petrol-Gaze din Ploiești, Seria Tehnica, vol. LI, nr.1, 1999, pag. 163-168, ISSN 1224-8495

C.3.32. **Bădoiu D.G.**, Vasilescu S., *Cercetari privind determinarea ecuatiilor de miscare a robotilor cu miscare plana si elemente elastice, prin analogie cu cazul de rigid*, Revista Constructia de Masini, nr.6, 1999, pag. 39-42, ISSN 2248-0420.

C.3.33. **Bădoiu D.G.**, Panait Gh., Vasilescu S., *Asupra determinarii variatiei pe un ciclu cinematic a vitezei si acceleratiei unghiulare a elementului conducator, in faza de regim, in cazul mecanismelor plane*, Revista Constructia de Masini, nr.6, 1999, pag. 35-38, ISSN 2248-0420.

C.3.34. Vasilescu S., **Bădoiu D.G.**, *Studiul stabilitatii invelisurilor cilindrice tronsonate*, Revista Constructia de Masini, nr.6, 1999, pag. 32-34, ISSN 2248-0420.

C.3.35. Panait, Gh., **Bădoiu D.G.**, Florea I., *Compensarea dezechilibrului unui disc fixat pe un arbore elastic, cu mase mobile montate intr-un canal lubrificat*, Buletinul Universității Petrol-Gaze din Ploiești, Seria Tehnica, vol. XLVII-L, nr. 10, 1998, pag. 29-34, ISSN 1224-8495.

C.3.36. Panait Gh., **Bădoiu D.G.**, *Cercetari privind influenta variatiei momentului de inertie masic al volantului asupra valorii gradului de neregularitate δ , in cazul mecanismelor plane*, Buletinul Universității Petrol-Gaze din Ploiești, Seria Tehnica, vol. XLVII-L, nr.10, 1998, pag. 35-40, ISSN 1224-8495.

C.3.37. Stan M., **Bădoiu D.G.**, Olteanu M., *Cercetari teoretice asupra dinamicii garniturii sistemelor de manevra neconventionale cu Top-Drive (rezolvarea modelului)*, Buletinul

Universității Petrol-Gaze din Ploiești, Seria Tehnica, vol. XLVII-L, nr. 6, 1998, pag. 281-287, ISSN 1224-8495.

C.3.38. Stan M., Popovici Al., **Bădoiu D.G.**, *Cercetari teoretice asupra dinamicii garniturii sistemelor de manevra neconventionale cu Top-Drive (modelarea actiunilor)*, Buletinul Universității Petrol-Gaze din Ploiești, Seria Tehnica, vol. XLVII-L, nr. 6, 1998, pag. 277-280, ISSN 1224-8495.

C.3.39. Stan M., Popovici Al., **Bădoiu D.G.**, *Cercetari teoretice asupra dinamicii garniturii sistemelor de manevra neconventionale cu Top-Drive (model matematic)*, Buletinul Universității Petrol-Gaze din Ploiești, Seria Tehnica, vol. XLVII-L, nr. 6, 1998, pag. 271-276, ISSN 1224-8495.

C.3.40. Vasilescu S., Eparu I., **Bădoiu D.G.**, *Consideratii privind vibratiile cilindrilor verticali in ipoteza de bara*, Revista Constructia de Masini, nr. 9, 1998, pag. 21-23, ISSN 2248-0420.

C.3.41. Vasilescu S., Eparu I., **Bădoiu D.G.**, *Consideratii privind vibratiile cilindrilor in teoria de invelis*, Revista Constructia de Masini, nr. 9, 1998, pag. 18-20, ISSN 2248-0420.

C.3.42. Eparu I., Vasilescu S., **Bădoiu D.G.**, *Adaptarea elastica a sistemelor de conducte in spatiul tensiunilor σ_x - σ_y - τ_{xy} . Cazuri particulare si drumul de descarcare*, Revista Constructia de Masini, nr. 9, 1998, pag. 45-47, ISSN 2248-0420.

C.3.43. Eparu I., Vasilescu S., **Bădoiu D.G.**, *Adaptarea elastica a sistemelor de conducte. Studiul punctului cel mai solicitat in spatiul tensiunilor σ_x - σ_y - τ_{xy}* , Revista Constructia de Masini, nr. 9, 1998, pag. 42-44, ISSN 2248-0420.

C.3.44. Eparu I., **Bădoiu D.G.**, *Adaptarea tuburilor cu pereti grosi. Intervalul maxim de descarcare*, Buletinul Universității Petrol-Gaze din Ploiești, Seria Tehnica, vol. XLVII-L, nr. 8, 1998, pag. 107-114, ISSN 1224-8495.

C.3.45. **Bădoiu D.G.**, *Cercetari privind influenta inertiei motoarelor de actionare si a obiectelor manipulate asupra miscarii robotilor industriali*, Studii si Cercetari de Mecanica Aplicata, Editura Academiei Romane, nr.1, 1998, pag. 99-112.

C.3.46. Panait, Gh., **Bădoiu D.G.**, *Cercetari privind calculul momentului motor necesar la arborele de intrare al unitatilor de pompare folosite in industria petroliera*, Studii si Cercetari de Mecanica Aplicata, Editura Academiei Romane, nr.1, 1994, pag. 63-70.

C.3.47. Panait, Gh., **Bădoiu D.G.**, *Asupra calculului momentului motor M_m , la mecanismele plane*, Studii si Cercetari de Mecanica Aplicata, Editura Academiei Romane, nr.1, 1993, pag. 63-72.

(D) Lucrări/studii publicate (prezentate) la manifestări științifice internaționale sau naționale cu comitet de program

D.1. **Bădoiu D.G.**, Toma G., *Research on designing a multiloop planar linkage*, [IOP Conference Series: Materials Science and Engineering](#), Volume 659, Issue 1, 2019, Article number 012001, 9th International Scientific Conference on Research and Development of Mechanical Elements and Systems, IRMES 2019; University of Kragujevac, Faculty of Engineering Kragujevac, Serbia; 5-7 September 2019

D.2. **Bădoiu D.G.**, Petrescu M.G., Antonescu N.N., Toma G., *Research concerning the evaluation of the connection forces in the joints of the sucker rod pumping units mechanism*, Proceedings of 9th International Conference on Tribology (Balkantrib'17), pag. 160-167, Turkey, 13-15 sept. 2017

D.3. **Bădoiu D.G.**, Petrescu M.G., Antonescu N.N., Toma G., *Research concerning the balancing of a plane mechanism*, Proceedings of 9th International Conference on Tribology (Balkantrib'17), pag. 168-175, Turkey, 13-15 sept. 2017

D.4. **Bădoiu D.G.**, Petrescu M., Toma G., Helthuis J., *On the Generation of Complex Trajectories Using a Robotic System with Six Degrees of Freedom*, [Applied Mechanics and Materials](#), Volume 657, 2014, Pages 803-807, Innovative Manufacturing Engineering International Conference, IManE 2014; Chisinau; Moldova; 29-30 May 2014 ; Code 108569

D.5. **Bădoiu D.G.**, Petrescu M., *On the Application of a Simplified Dynamic Model for the Calculus of the Driving Moments of Mechanisms*, Proceedings of the 43rd International Symposium on Robotics (ISR 2012), pag. 786-790, August 29-31 2012, Taipei World Trade Center (TWTC)

D.6. **Bădoiu D.G.**, *Research concerning the differential model of the Mitsubishi Melfa RV-1A robot system*, Proceedings of the 2nd International Conference Science and Tehnology in the context of Sustainable Development, pag. 17-22, Universitatea Petrol-Gaze din Ploiesti, 2010

D.7. **Bădoiu D.G.**, *On the calculus of the equilibrium moment in the case of a plane mechanism*, Proceedings of the 2nd International Conference Science and Tehnology in the context of Sustainable Development, pag. 23-28, Universitatea Petrol-Gaze din Ploiesti, 2010

D.8. **Bădoiu D.G.**, *The analysis of trajectories generation using a robot with five degrees of freedom*, Proceedings of the International Symposium of the Institute of Solid Mechanics SISOM 2009, pag. 209-212, 28-29 mai 2009, Bucuresti

D.9. **Bădoiu D.G.**, Rîpeanu R.G., *Research concerning the achievement of a mechatronic device used for testing the spherical joints*, Proceedings of the International Conference ECOTRIB 2007, pag. 997-1004, Ljubljana (Slovenia), 12-15 iunie 2007

D.10. **Bădoiu D.G.**, *The analysis and synthesis of a linkage with cinematic parameters imposed*, Proceedings of the International Symposium of the Institute of Solid Mechanics SISOM 2007, pag. 168-171, 29-31 mai 2007, Bucuresti

D.11. **Bădoiu D.G.**, *On the dynamics of a manipulator with the movement parameters imposed*, Proceedings of the International Conference Universitaria Simpro 2007, pag. 5-8, Universitatea din Petrosani, 2007

D.12. **Bădoiu D.G.**, *On the synthesis of an anthropomorphic robot structure*, Proceedings of the International Conference Universitaria Simpro 2007, pag. 9-14, Universitatea din Petrosani, 2007

D.13. **Bădoiu D.G.**, *Research concerning the dynamics of a manipulator robot with elastic links*, Proceedings of International Symposium of the Institute of Solid Mechanics SISOM 2006, pag. 413-416, 17-19 mai 2006, Bucuresti

D.14. **Bădoiu D.G.**, *On the simulation of the motion of a five bar link planar mechanism*, Proceedings of the International Conference Universitaria Simpro 2006, pag. 9-11, Universitatea din Petrosani, 2006

D.15. **Bădoiu D.G.**, *Research concerning the precision of the trajectories obtained with antropomorphic robots structures*, Proceedings of the International Symposium of the Institute of Solid Mechanics SISOM 2005, pag. 280-285, Bucuresti, 2005

D.16. **Bădoiu D.G.**, *Research concerning the kinematics of industrial robots active mechanisms*, Proceedings of the International Conference Universitaria Simpro 2005, pag. 23-27, Universitatea din Petrosani, 2005

D.17. **Bădoiu D.G.**, *Some results concerning the dynamic movement equations of industrial robots active mechanisms*, Proceedings of the International Conference Universitaria Simpro 2005, pag. 33-36, Universitatea din Petrosani, 2005

D.18. Tudor I., Rîpeanu R.G., **Bădoiu D.G.**, *Device and simulator for testing pairs of materials used for joints design*, Proceedings of the 2nd International Conference on Manufacturing Engineering ICMEN and EUREKA Brokerage Event, pag. 417-423, Grecia, 2005

D.19. **Bădoiu D.G.**, Vasilescu S., Talle V., *Automatic calculus of movement equations of industrial robots*, Proceedings of the 4th International Conference of Phd Students, pag. 13-18, University of Miskolc, Hungary, 2003

D.20. **Bădoiu D.G.**, *Research concerning the achievement of running simulators of plane mechanisms*, Proceedings of the 4th International Conference of Phd Students, pag. 19-24, University of Miskolc, Hungary, 2003

D.21. **Bădoiu D.G.**, Eparu I., *Research concerning the calculus of the dynamic model of the industrial robots active mechanisms using the Lagrange formalism*, Proceedings of the 8th IFToMM International Symposium on Theory of Machines and Mechanisms, pag. 15-20, Bucuresti, 2001

D.22. Posea N., **Bădoiu D.G.**, Lupascu, T., *Research Concerning the Dynamic Analysis of Industrial Robots Mechanisms with a View to their Dimensional Optimisation*, Proceedings of the 27th International Conference on Industrial Robots-Robotics Towards 2000, pag. 599-604, Milano, 1996

D.23. **Bădoiu D.G.**, Posea, N., *Research Concerning the Influence of Links' Elasticity upon the Movement of Industrial Robots*, Proceedings of the 2nd ECPD International Conference on Advanced Robotics, Intelligent Automation and Active Systems, pag. 123-128, Viena, 1996

D.24. **Bădoiu D.G.**, Posea N., *Research Concerning the Dynamic Analysis of Flexible Robots*, Proceedings of the First ECPD International Conference on Advanced Robotics and Intelligent Automation, Atena, pag. 639-644, 1995

(E) Proiecte de cercetare dezvoltare inovare pe bază de grant/contract

E.1. **Bădoiu D.G. (director contract)**, Dinu F., Toma G., *Studiu privind proiectarea 3D a unor elemente din echipamentele folosite in industria petroliera*, beneficiar SC Expert Serv SRL, nr contract 177/2012 (CTTIAP), 10000 RON

E.2. **Bădoiu D. (director grant)**, Eparu I., Oprea M., Petrescu M.G., Dinita A., Vasilescu S., Moise A., Popa I., Cangea O., Bucur G., Stanciu L., Olteanu M., Popescu C., Neacsu A., Grant PN II nr. 143/2007 (nr. intern Univ. Petrol-Gaze, Departament Cercetare Stiintifica - 85/2007), *Dezvoltarea unui laborator pentru aplicarea tehnologiilor CIM*, Autoritatea contractanta: Autoritatea Nationala pentru Cercetare Stiintifica, 796000 RON

E.3. **Bădoiu D.G. (director contract)**, Vasilescu S., Talle V., *Analiza starii de tensiuni si deformatii la robinetii cu sertar expandabil*, nr contract 36/2004, beneficiar Uztel SA Ploiesti, 4000 RON

E.4. **Bădoiu D.G. (director contract)**, Vasilescu S., Talle V., *Analiza starilor de tensiuni si deformatii din unele utilaje speciale fabricate de S.C. UZTEL S.A. Ploiesti*, nr contract 15/2003, beneficiar Uztel SA Ploiesti, 2000 RON

E.5. **Bădoiu D.G. (director contract)**, Vasilescu S., Talle V., *Analiza starilor de tensiuni si deformatii din structuri de tipul corpurilor de robinet*, contract nr. 14/2003, beneficiar Uztel SA Ploiesti, 3000 RON

E.6. **Bădoiu D.G. (director contract)**, Vasilescu S., Talle V., *Calculul de rezistenta a retelelor de conducte*, contract nr. nr. 3/2002, beneficiar Petrotrans SA Ploiesti, 1500 RON

E.7. **Bădoiu D.G. (director contract)**, Vasilescu S., Talle V., *Analiza statica a structurilor de foraj de tip mast*, contract nr. nr. 2/2002, beneficiar Uztel SA Ploiesti, 5000 RON

E.8. **Bădoiu D.G. (director contract)**, Vasilescu S., Talle V., *Analiza dinamica a structurilor de foraj de tip mast*, contract nr. 1/2002, beneficiar Uztel SA Ploiesti, 5000 RON

E.9. **Bădoiu D.G. (director contract)**, Vasilescu S., Talle V., Eparu I., *Analiza experimentală a comportării dinamice a unor utilaje din S.C. Mefin S.A.-Sinaia*, contract nr. 12/2002, beneficiar S.C. Mefin S.A.-Sinaia, 3500 RON

E.10. **Bădoiu D.G. (director contract)**, Vasilescu S., Talle V., Eparu I., *Analiza stării de tensiuni și deformații din arborele de antrenare a pompei DPA cu presiune de injecție marită*, nr contract 10/2002, beneficiar S.C. Mefin S.A.-Sinaia, 3200 RON

E.11. Talle V., Vasilescu S., **Bădoiu D.G.**, *Studiul funcționării unităților de pompare în vederea obținerii unui consum minim de energie*, nr contract 19/2003, beneficiar SNP Petrom, 39000 RON

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