LISTA LUCRĂRILOR ELABORATE ŞI PUBLICATE

Teza de doctorat
Andrioaia Dragoș-Alexandru, „*CONTRIBUȚII PRIVIND ÎMBUNĂTĂȚIREA PARAMETRILOR CONSTRUCTIVI ȘI FUNCȚIONALI AI MECANISMELOR CU STRUCTURĂ PARALELĂ "DELTA" 3GDM DE LA ROBOȚII INDUSTRIALI"* Coordonator ştiinţific, Prof.dr.ing. Gheorghe STAN, Universitatea „Vasile Alecsandri" din Bacău, Facultatea de Inginerie, Domeniul Inginerie Industrială , susținută în 20.06.2014.

Cărţi şi capitole în cărţi
Îndrumare de laborator
1. Andrioaia D.-A., Popa S.-E, Îndrumar de laborator pentru programarea calculatoarelor în C/C++**,** Ed**.** Alma Mater, ISBN 978-606-527-519-5, 2016, Bacău, Romania.

Articole / studii, publicate în reviste de specialitate şi volume ale unor manifestări ştiinţifice
Articole publicate în reviste proceedings ISI
1.	**Andrioaia, D. A**, Pascu, M., Mihailă, L., Obreja, C., *Determining the Workspace in case of the Robots with Parallel Structure Delta 3DOF*, Proceedings of the 23rd International DAAAM Symposium, ISSN 2304-1382, Vol. 23, No.1, pp. 1123- 1126, 2012.
2.	Obreja C., Mihaila L., **Andrioaia D. A.**, *Modular tool changing system with high storage capacity for CNC milling centers*, Proceedings of the 16th International Conference Modern Technologies, Quality and Innovation, ISSN 2069-6736, Sinaia, Vol. 2, pp. 689-682, 2012, BDI: SCOPUS, INSPEC, INDEX COPERNICUS INTERNATIONAL, GOOGLE SCHOLAR.
3.	**Andrioaia D. A.**, Stan G., Funaru M., Obreja C., *The influence of kinematic joints clearances on the positioning accuracy of 3DOF Delta parallel robots*, Applied Mechanics and Materials, IMANE, ISSN: 1662-7482, Vol. 371, pp. 406 -410, 2013.
4.	**Andrioaia D. A.**, Stan G., Pascu M., Mihailă L., *Determining the Shape and Volume of the Work Space for the Robot with Parallel Structure Delta 3 DOF Using the Monte Carlo Method*, Applied Mechanics and Materials, OPTIROB, ISSN 1660-9336 ,Vol. 332, pp 200-205, 2013.

5.	Mihaila L., Stan G., Funaru M., **Andrioaia D. A.**, *Transmission Ratio Optimization of Electric Driven Palletizing Mechanism*, Applied Mechanics and Materials, IMANE, ISSN: 1662-7482, Vol. 371, pp. 421-425, 2013.
6.	Pascu M., Stan G., **Andrioaia D. A.,** Mihăilă L., *System for Compensating the Rigidity of the Hydrostatic Guideways of the Column Saddle Subassembly of the Boring and Milling Machines*, Applied Mechanics and Materials, IMANE, ISSN: 1662-7482, Vol. 371, pp. 627- 631, 2013.
7.	Pascu M., Stan G., Obreja C., **Andrioaia D. A.,** *Device for Supplying the Hydrostatic Pockets with Compensation of the Fluid Temperature*, Applied Mechanics and Materials, IMANE, ISSN: 1662-7482, Vol. 371, pp. 632-636, 2013.
8.	Obreja C., Stan G., **Andrioaia D. A.**, Funaru M., *Design of an Automatic Tool Changer System for Milling Machining Centers*, Applied Mechanics and Materials, IMANE, ISSN: 1662-7482, Vol. 371, pp 69-73, 2013.
9.	**Andrioaia D. A**., Rotar D., Puiu G., *Determining the Driving Torques of the Robots with Delta 3DOF Parallel Structure by Using the MSC ADAMS Software Pack*, Applied Mechanics and Materials, OPTIROB, ISSN 1660-9336, Vol. 332, pp. 224-228, 2013.
10.	Puiu P. G., Drilea D., Nedelcu D. I**.,** **Andrioaia D**. **A**., *Position Control System of a Trunk in an Upward Airflow*, Applied Mechanics and Materials, IMANE, Vol. 657, pp. 699-703, 2014.
11.	**Andrioaia D. A**., Stan. G., Cristea I., *Influence of Dimensional Deviations on the Positioning Accuracy of Robots with Delta 3 DOF Parallel Structure*, Applied Mechanics and Materials, IMANE, ISSN 1662-7482, Vol. 657, pp 839-843, 2014

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1	**Andrioaia D. A.**, Nedelcu I., *The theoretical study of the solar tower with collector and air turbine*, Proceedings Of the 7th National Conference On Industrial Energetics With International Participation, ISBN 978-606-527-050-3, Vol. 7, pp. 475-478, 2009, BDI: Viniti, Index Copernicus International.
2.	**Andrioaia D. A**, Rotar D., Puiu G., *Creating a Communication between a Pic18F4550 Microcontroller and a Pc Usb Port Type in order to Achieve Industrial Automation*, Journal of Engineering Studies and Research, ISSN 2068-7559, Vol. 18, No. 2, pp. 14-17, 2012, BDI: ProQuest CSA, VINITI, EBSCO, Index Copernicus, Academic Journals Database, Directory of Research Journal Indexing
3.	**Andrioaia D. A.,** Rotar D., Anghelut M., *The Conception Of A Wireless Network Of Microcontrollers*, Journal of Engineering Studies and Research, ISSN 2068-7559, Vol. 18, No. 1, pp 12-15, 2012, BDI: ProQuest CSA, VINITI, EBSCO, Index Copernicus, Academic Journals Database, Directory of Research Journal Indexing.
4.	**Andrioaia D. A.**, Pascu M., Obreja C., *Determining the Geometry Errors in a Mechanism with Delta type Parallel Structure*, Proceedings of the 16th International Conference Modern Technologies, Quality and Innovation, ISSN 2069-6736, Vol. 1, pp. 37-40, 2012, BDI: SCOPUS, INSPEC, INDEX COPERNICUS INTERNATIONAL, GOOGLE SCHOLAR.
5.	Rotar D., **Andrioaia D. A.,** - *Interactive Video Interface for Embedded Systems, Romanian Journal of Human-Computer Interaction*, ISSN 1843 – 4460, Vol. 5, No. 2, pp. 117–120, 2012, BDI: HCI Bibliography, Computer Science Bibliographies, Index Copernicus, EBSCO, ProQuest.

6.	Pascu M., **Andrioaia D. A.**, Obreja C., Funaru M*., Study and Researches Concerning the Use of Porous Restrictor in the Case of Hydrostatic Guideways*, Journal of Engineering Studies and Research, ISSN 2068-7559, Vol. 18, No. 3, pp. 104-110, 2012, BDI: ProQuest CSA, VINITI, EBSCO, Index Copernicus, Academic Journals Database, Directory of Research Journal Indexing.
7.	**Andrioaia D. A.**, Pascu M., Obreja C., *Determining the Workspace Shape of a Robot with Delta 3DOF Parallel Structure*, Journal of Engineering Studies and Research, ISSN 2068-7559, Vol. 18, No. 4, pp. 20-24, 2012, BDI: ProQuest CSA, VINITI, EBSCO, Index Copernicus, Academic Journals Database, Directory of Research Journal Indexing.
8.	Rotar D., **Andrioaia D. A.**, *Wireless Network for Mobile Robots Smart Environments Part I: The Antenna Orientation System, Romanian Review Precision Mechanics*, Optics & Mechatronics, ISSN 1584 – 5982, No. 43 , pp. 74-80, 2013, BDI: EBSCO International Database, Scopus.
9.	Rotar D., **Andrioaia D. A.**, *Wireless Network for Mobile Robots Smart Environments Part II: The Communication Optimization System*, Romanian Review Precision Mechanics, Optics & Mechatronics, ISSN 1584-5982, No. 43, pp. 81-87, 2013, BDI: EBSCO International Database, Scopus.
10.	**Andrioaia D. A**., Stan. G., *The Determination of the Velocities and of the Accelerations of Action Belonging to the Parallel Robots with Delta 3 DOF Structure Using the Software MSC Adams Package*, Proceedings of Francophone Multidisciplinary Colloquium on Materials Environment and Electronics, ISSN 2343-9092, Vol. 1, No. 1, pp. 17-20, 2013, BDI: Index Copernicus, EBSCO, EIJASR.
11.	Mihăilă L., Stan G., Funaru M., Obreja C., **Andrioaia D. A**., *Automatic pallet changer mechanism used on machining center*, Journal of Engineering Studies and Research, ISSN 2068-7559, Vol. 19, No. 1, pp. 36-41, 2013, BDI: ProQuest CSA, VINITI, EBSCO, Index Copernicus, Academic Journals Database, Directory of Research Journal Indexing.
12.	**Andrioaia D. A.**, Rotar D., *The influence of the articulated deviations from the kinematical active pairs on the positioning accuracy within the workspace of the Delta 3DOF parallel robots*, Proceedings of the International Conference on Industrial Power Engineering. The 9-th Edition CIEI 2014, ISSN 2069 - 9905, Vol. 1, pp. 7-12, 2014, BDI: Viniti, Index Copernicus International.
13.	Rotar D., **Andrioaia D. A.**, *Intelligent system for the buildings interior*, Proceedings of the International Conference on Industrial Power Engineering. The 9-th Edition CIEI 2014, ISSN 2069 - 9905, Vol. 1, pp. 216-221, 2014, BDI: Viniti, Index Copernicus International.
14.	Rotar D., **Andrioaia D. A.**, *Configurable systems for the sensors network*, Proceedings of Francophone Multidisciplinary Colloquium on Materials Environment and Electronics, ISSN 2343 – 9092, Vol. 4, Nr. 1, pp. 89-92, 2014, BDI: Index Copernicus, EBSCO, EIJASR.
15.	**Andrioaia D. A.**, Culea G., Rotar D., *The Optimization of the Geometric Parametres of the Five-Bar Manipulator According to the Given Workspace Using the Method of the Genetic Algorithm*, Quatrieme Colloque Francophone PLUridisciplinaire sur les Matériaux, l'Environnement et l'Electronique, ISSN 2343 – 9092, Vol. 5, Nr. 1, pp. 10-15, 2015, BDI: Index Copernicus, EBSCO, EIJASR.
16.	Culea G., **Andrioaia D. A.**, Culea C. M., *Tools for Editind and Simulating Petri Nets*, Quatrieme Colloque Francophone PLUridisciplinaire sur les Matériaux, l'Environnement et l'Electronique, ISSN 2343 – 9092, Vol. 5, Nr. 1, pp. 28-29, 2015, BDI: Index Copernicus, EBSCO, EIJASR.
17.	Rotar D., Culea G., **Andrioaia D. A.**, *Soft core microprocessor for mechatronics systems, The Romanian Review Precision Mechanics*, Vol. 1, Nr. 47, pp. 26-32, 2015, BDI: EBSCO, SCOPUS,

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18.	**Andrioaia D. A.**, Rotar D., *Determining the Driving System for Robots with Delta 3 DOF Parallel Structure, Using SolidWorks*, Applied Mechanics and Materials, IMANE, ISSN 1662-7482, Vol. 809-810, pp 1219-1224, 2015, BDI: Index Copernicus Journals Master List, Google Scholar, CSA, IET, SJR, EBSCO, WoS.
19.	**Andrioaia D. A.**, Puiu P. G., Ghenadi A., *The Influence of the Errors Introduced by the Actuator on the Positioning Accuracy of the Robots with Parallel Delta 3 DOF*, Applied Mechanics and Materials, IMANE, ISSN 1662-7482, Vol. 809-810, pp 1225-1230, 2015, BDI: Index Copernicus Journals Master List, Google Scholar, CSA, IET, SJR, EBSCO, WoS.
20.	Puiu P. G., **Andrioaia D. A.**, Cornel T., *A New Approach to Achieving the Command and Control Modules Embedded in Smart Home Building*, Applied Mechanics and Materials, IMANE, ISSN 1662-7482, Vol. 809-810, pp. 1231-1236, 2015, BDI: Index Copernicus Journals Master List, Google Scholar, CSA, IET, SJR, EBSCO, WoS.
21.	**Andrioaia D. A.**, Culea G., Rotar D., Automatic System Of Opening Doors By Using A Smartphone With Windows Phone, Proceedings of the 10th International Conference on Industrial Power Engineering, ISSN: 2069 – 9905, pp. 14-15, 2016 BDI: Viniti, Index Copernicus International.
22.	Rotar D., Culea G., Andrioaia D. A., Efficient energy consumption in the dedicated embedded systems, Proceedings of Francophone Multidisciplinary Colloquium on Materials, Environment and Electronics, ISSN: 2343-9092, Vol. 6, Nr. 1, pp. 13-16, 2016, BDI: Index Copernicus Journals Master List, EBSCO, EIJASR.
23.	Rotar D., Culea G., Andrioaia D. A., IT energy consumption surveillance technology, Proceedings of Francophone Multidisciplinary Colloquium on Materials, Environment and Electronics, ISSN: 2343-9092, Vol. 6, Nr. 1, pp. 17-20, 2016, BDI: Index Copernicus Journals Master List, EBSCO, EIJASR.
24.	Andrioaia D.A., Culea G., Rotar D., Implementation of the perceptron on Arduino Uno development board, PLUridisciplinaire sur les Matériaux, l'Environnement et l'Electronique, ISSN 2343-9092, Vol. 6, Nr. 1, pp. 99-102, 2017, BDI: Index Copernicus, EBSCO, EIJASR.
25.	Rotar D, Culea G., Andrioaia D. A., Designing the processor instruction set on a programmable logic array, PLUridisciplinaire sur les Matériaux, l'Environnement et l'Electronique, ISSN 2343-9092, Vol. 6, Nr. 1, pp. 113-116, 2017, BDI: Index Copernicus, EBSCO, EIJASR.
26.	Rotar D, Andrioaia D. A., Digital Fingerprint Of The Protected Environment, e 6ème Colloque francophone PLUridisciplinaire sur les Matériaux, l'Environnement et l'Electronique, ISSN 2343-9092, Vol. 7, Nr. 1, 2019, BDI: Index Copernicus, EBSCO, EIJASR.

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1.	Rotar D., Angheluţ M., **Andrioaia D. A.**, *Microcontroller Neural Network Solution*, MOCM, ISSN 1224-7480, Vol. 4, No. 14, pp. 133-136, 2008.
2.	Rotar D., Angheluţ M., **Andrioaia D. A.**, *Touch Panel Software Driver*, CNEI, ISBN: 978–606–527–050–3, pp. 271-274, 2009.
3.	**Andrioaia D. A.**, Rotar D., *Study on the Creation of a Robotic Manipulator with an Electromagnetic Gripping Device*, Romanian Review Precision Mechanics, Optics & Mechatronics, Vol. 2, pp. 152-158, 2010.

Lucrări / studii prezentate la manifestări ştiinţifice naţionale/internaţionale sub formă de

	conferinţă orală sau poster
1.	**Andrioaia D. A.**, Pascu M., Obreja C., *Determining the Geometry Errors in a Mechanism with Delta type Parallel Structure*, Proceedings of the 16 International Conference Modern Technologies Quality and Innovation, ISSN 2069-6736, Vol. 1, pp. 37-40, Per. 24.05.2012 – 26.05.2012, Org. Universitatea Tehnică Gheorghe Asachi din Iaşi, Departamentul TCM, Sinaia, România, http://modtech.ro, Prezentare orală.
2.	**Andrioaia D. A.**, Stan. G., *The Determination of the Velocities and of the Accelerations of Action Belonging to the Parallel Robots with Delta 3 DOF Structure Using the Software MSC Adams Package*, Proceedings of Francophone Multidisciplinary Colloquium on Materials Environment and Electronics, ISSN 2343-9092, Vol. 1, No. 1, pp. 17-20, Per. 23.05.2013-25.05.2013, Org. Universitatea "Vasile Alecsandri", Facultatea de Inginerie, Departamentul E.S.C, Bacău, România, http://plumee2013.ub.ro/, Prezentare orală.
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4.	**Andrioaia D. A.**, Rotar D., *Determining the Driving System for Robots with Delta 3 DOF Parallel Structure, Using SolidWorks*, Applied Mechanics and Materials, IMANE, ISSN 1662-7482, Vol. 809-810, pp 1219-1224, 2015, 21.05.2015 – 22.05.2015, Org. Department of Technology of Machine Manufacturing, Faculty of Machine Manufacturing and Industrial Management, "Gheorghe Asachi" Tehnical University of Iaşi, Department of Machine Manufacturing Technology, Faculty of Engineering and Management in Machine Building, Technical University of Moldova, Chişinău, Republic of Moldova, http://www.imane.ro/, Prezentare orală.
5.	**Andrioaia D. A.**, Culea George, Rotar Dan, *The Optimization of the Geometric Parametres of the Five-Bar Manipulator According to the Given Workspace Using the Method of the Genetic Algorithm*, Proceedings of the Francophone Multidisciplinary Colloquim on Materials Environment and Electronics, ISSN 2343 – 9092, Vol. 5, Nr. 1, pp. 10-15, 12.06.2015 – 15.06.2015, Org. Universitatea din Limoges, Franta, Universitatea "Vasile Alecsandri" din Bacău, Romania, IMT, Bucuresti, Limoges, Franta, http://plumee.ub.ro/, Poster.
6.	**Andrioaia D. A.**, Culea G., Rotar D., Automatic System Of Opening Doors By Using A Smartphone With Windows Phone, Proceedings of the 10th International Conference on Industrial Power Engineering, ISSN: 2069 – 9905, pp. 14-15, 2016 BDI: Viniti, Index Copernicus International. 02.06.2016 - 04.06.2016, , Org. Universitatea din Limoges, Franta, Universitatea "Vasile Alecsandri" din Bacău, Romania, http://ciei.ub.ro/, Prezentare orală.
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	Contracte de cercetare ştiinţifică
1.	Gheorghe Stan, Adrian Ghenadi, Viorel Ungureanu, Stefan Ababei, Ionel Crinel Raveica, Gabriela Andrioai, Claudiu Florin Obreja, Lucian Adrian Mihaila, **Dragos-Alexandru Andrioaia**, Marius Pascu, Marian Funaru, Contract de cercetare internaţional, Nr. 7-061/2012, Robot multi-articulat cu mişcări 3D independente pentru operaţiuni de poziţionare precisă "ROBOBUILD",

2.	Liliana Topliceanu, Puiu Petru-Gabriel, Furdu Iulian, Andrioaia Dragos-Alexandru, Contract de cercetare internațional, IN2RURAL, Erasmus+ programme Key Action 2, Valoare contract: 60632
3.	Puiu Petru-Gabriel, Andrioaia Dragos-Alexandru, Proiect AUF, Soutien a la organisation de la manifestations scientifiques, nr. 6752-02.05.2018, Valoare contract: 7440 lei

11.03.2021

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