

Andrioaia Dragoș-Alexandru, Lista lucrărilor elaborate și publicate

LISTA LUCRĂRILOR ELABORATE ȘI PUBLICATE

Lista celor maximum 10 lucrări considerate relevante	
1.	Andrioaia D. A. , Rotar D., Puiu G., <i>Creating a Communication between a Pic18F4550 Microcontroller and a Pc Usb Port Type in order to Achieve Industrial Automation</i> , 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.
2.	Andrioaia D. A. , Rotar D., Anghelut M., <i>The Conception Of A Wireless Network Of Microcontrollers</i> , 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.
3.	Andrioaia D. A. , Culea G., Rotar D., <i>The Optimization of the Geometric Parametres of the Five-Bar Manipulator According to the Given Workspace Using the Method of the Genetic Algorithm</i> , 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.
4.	Andrioaia D. A. , Rotar D., <i>Determining the Driving System for Robots with Delta 3 DOF Parallel Structure, Using SolidWorks</i> , 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.
5.	Andrioaia D. A. , Stan G., Pascu M., Mihailă L., <i>Determining the Shape and Volume of the Work Space for the Robot with Parallel Structure Delta 3 DOF Using the Monte Carlo Method</i> , Applied Mechanics and Materials, OPTIROB, ISSN 1660-9336 ,Vol. 332, pp 200-205, 2013, BDI: SCOPUS, CPX, CSA, CA, ISI, IEE.
6.	Puiu P. G., Andrioaia D. , Cornel T., <i>A New Approach to Achieving the Command and Control Modules Embedded in Smart Home Building</i> , 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.
7.	Puiu P. G., Drilea D., Nedelcu D. I., Andrioaia D. A. , <i>Position Control System of a Trunk in an Upward Airflow</i> , Applied Mechanics and Materials, IMANE, Vol. 657, pp. 699-703, 2014, Proceedings ISI.
8.	Rotar D., Andrioaia D. A. , <i>Wireless Network for Mobile Robots Smart Environments Part I: The Antenna Orientation System</i> , 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. , <i>Wireless Network for Mobile Robots Smart Environments Part II: The Communication Optimization System</i> , Romanian Review Precision Mechanics, Optics & Mechatronics, ISSN 1584-5982, No. 43, pp. 81-87, 2013, BDI: EBSCO International Database, Scopus.
10.	Rotar D., Culea G., Andrioaia D. A. , <i>Soft core microprocessor for mechatronics systems</i> , <i>The Romanian Review Precision Mechanics</i> , Vol. 1, Nr. 47, pp. 26-32, 2015, BDI: EBSCO, SCOPUS, ProQuest.

Teza de doctorat

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

Cărți și capitole în cărți

Îndrumare de laborator

1. Andrioaia Dragoș-Alexandru, Popa Sorin-Eugen, 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 și volume ale unor manifestări științifice

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. **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.
3. Mihailă 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.
4. 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.
5. 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.
6. 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.

7.	Puiu P. G., Drilea D., Nedelcu D. I., Andrioaia D. A. , <i>Position Control System of a Trunk in an Upward Airflow</i> , Applied Mechanics and Materials, IMANE, Vol. 657, pp. 699-703, 2014.
8.	Andrioaia D. A. , Stan. G., Cristea I., <i>Influence of Dimensional Deviations on the Positioning Accuracy of Robots with Delta 3 DOF Parallel Structure</i> , Applied Mechanics and Materials, IMANE, ISSN 1662-7482, Vol. 657, pp 839-843, 2014
Articole publicate în reviste indexate BDI	
1.	Andrioaia D. A. , Rotar D., Puiu G., <i>Creating a Communication between a Pic18F4550 Microcontroller and a Pc Usb Port Type in order to Achieve Industrial Automation</i> , 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
2.	Andrioaia D. A. , Rotar D., Anghelut M., <i>The Conception Of A Wireless Network Of Microcontrollers</i> , 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.
3.	Andrioaia D. A. , Pascu M., Obreja C., <i>Determining the Geometry Errors in a Mechanism with Delta type Parallel Structure</i> , 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.
4.	Obreja C., Mihaila L., Andrioaia D. A. , <i>Modular tool changing system with high storage capacity for CNC milling centers</i> , 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.
5.	Rotar D., Andrioaia D. A. , - <i>Interactive Video Interface for Embedded Systems</i> , 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., <i>Study and Researches Concerning the Use of Porous Restrictor in the Case of Hydrostatic Guideways</i> , 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., <i>Determining the Workspace Shape of a Robot with Delta 3DOF Parallel Structure</i> , 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.	Andrioaia D. A. , Rotar D., Puiu G., <i>Determining the Driving Torques of the Robots with Delta 3DOF Parallel Structure by Using the MSC ADAMS Software Pack</i> , Applied Mechanics and Materials, OPTIROB, ISSN 1660-9336, Vol. 332, pp. 224-228, 2013, BDI: SCOPUS, CPX, CSA, CA, ISI, IEE.
9.	Andrioaia D. A. , Stan G., Pascu M., Mihailă L., <i>Determining the Shape and Volume of the Work Space for the Robot with Parallel Structure Delta 3 DOF Using the Monte Carlo Method</i> , Applied Mechanics and Materials, OPTIROB, ISSN 1660-9336 ,Vol. 332, pp 200-205, 2013, BDI: SCOPUS, CPX, CSA, CA, ISI, IEE.

10.	Rotar D., Andrioaia D. A. , <i>Wireless Network for Mobile Robots Smart Environments Part I: The Antenna Orientation System</i> , <i>Romanian Review Precision Mechanics, Optics & Mechatronics</i> , ISSN 1584 – 5982, No. 43 , pp. 74-80, 2013, BDI: EBSCO International Database, Scopus.
11.	Rotar D., Andrioaia D. A. , <i>Wireless Network for Mobile Robots Smart Environments Part II: The Communication Optimization System</i> , <i>Romanian Review Precision Mechanics, Optics & Mechatronics</i> , ISSN 1584-5982, No. 43, pp. 81-87, 2013, BDI: EBSCO International Database, Scopus.
12.	Andrioaia D. A. , Stan. G., <i>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</i> , <i>Proceedings of Francophone Multidisciplinary Colloquium on Materials Environment and Electronics</i> , ISSN 2343-9092, Vol. 1, No. 1, pp. 17-20, 2013, BDI: Index Copernicus, EBSCO, EIJASR.
13.	Mihăilă L., Stan G., Funaru M., Obreja C., Andrioaia D. A. , <i>Automatic pallet changer mechanism used on machining center</i> , <i>Journal of Engineering Studies and Research</i> , 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.
14.	Andrioaia D. A. , Rotar D., <i>The influence of the articulated deviations from the kinematical active pairs on the positioning accuracy within the workspace of the Delta 3DOF parallel robots</i> , <i>Proceedings of the International Conference on Industrial Power Engineering. The 9-th Edition CIEI 2014</i> , ISSN 2069 - 9905, Vol. 1, pp. 7-12, 2014, BDI: Viniti.
15.	Rotar D., Andrioaia D. A. , <i>Intelligent system for the buildings interior</i> , <i>Proceedings of the International Conference on Industrial Power Engineering. The 9-th Edition CIEI 2014</i> , ISSN 2069 - 9905, Vol. 1, pp. 216-221, 2014, BDI: Viniti.
16.	Rotar D., Andrioaia D. A. , <i>Configurable systems for the sensors network</i> , <i>Proceedings of Francophone Multidisciplinary Colloquium on Materials Environment and Electronics</i> , ISSN 2343 – 9092, Vol. 4, Nr. 1, pp. 89-92, 2014, BDI: Index Copernicus, EBSCO, EIJASR.
17.	Andrioaia D. A. , Culea G., Rotar D., <i>The Optimization of the Geometric Parametres of the Five-Bar Manipulator According to the Given Workspace Using the Method of the Genetic Algorithm</i> , <i>Quatrieme Colloque Francophone PLUridisciplinaire sur les Matériaux, l'Environnement et l'Electronique</i> , ISSN 2343 – 9092, Vol. 5, Nr. 1, pp. 10-15, 2015, BDI: Index Copernicus, EBSCO, EIJASR.
18.	Culea G., Andrioaia D. A. , Culea C. M., <i>Tools for Editind and Simulating Petri Nets</i> , <i>Quatrieme Colloque Francophone PLUridisciplinaire sur les Matériaux, l'Environnement et l'Electronique</i> , ISSN 2343 – 9092, Vol. 5, Nr. 1, pp. 28-29, 2015, BDI: Index Copernicus, EBSCO, EIJASR.
19.	Rotar D., Culea G., Andrioaia D. A. , <i>Soft core microprocessor for mechatronics systems</i> , <i>The Romanian Review Precision Mechanics</i> , Vol. 1, Nr. 47, pp. 26-32, 2015, BDI: EBSCO, SCOPUS, ProQuest.
20.	Andrioaia D. A. , Rotar D., <i>Determining the Driving System for Robots with Delta 3 DOF Parallel Structure, Using SolidWorks</i> , <i>Applied Mechanics and Materials</i> , IMANE, ISSN 1662-7482, Vol. 809-810, pp 1219-1224, 2015, BDI: Index Copernicus Journals Master List, Google Scholar, CSA, IET, SJR, EBSCO, WoS.
21.	Andrioaia D. A. , Puiu P. G., Ghenadi A., <i>The Influence of the Errors Introduced by the Actuator on the Positioning Accuracy of the Robots with Parallel Delta 3 DOF</i> , <i>Applied Mechanics and Materials</i> , IMANE, ISSN 1662-7482, Vol. 809-810, pp 1225-1230, 2015, BDI: Index Copernicus

	Journals Master List, Google Scholar, CSA, IET, SJR, EBSCO, WoS.
22.	Puiu P. G., Andrioaia D. A. , Cornel T., <i>A New Approach to Achieving the Command and Control Modules Embedded in Smart Home Building</i> , 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.
Articole / studii publicate în volume ale unor manifestări științifice naționale sau internaționale	
1.	Rotar D., Angheluț M., Andrioaia D. A. , <i>Microcontroller Neural Network Solution</i> , MOCM, ISSN 1224-7480, Vol. 4, No. 14, pp. 133-136, 2008.
2.	Rotar D., Angheluț M., Andrioaia D. A. , <i>Touch Panel Software Driver</i> , CNEI, ISBN: 978-606-527-050-3, pp. 271-274, 2009.
3.	Andrioaia D. A. , Nedelcu I., <i>The theoretical study of the solar tower with collector and air turbine</i> , Proceedings Of the 7th National Conference On Industrial Energetics With International Participation, ISBN 978-606-527-050-3, Vol. 7, pp. 475-478, 2009.
4.	Andrioaia D. A. , Rotar D., <i>Study on the Creation of a Robotic Manipulator with an Electromagnetic Gripping Device</i> , Romanian Review Precision Mechanics, Optics & Mechatronics, Vol. 2, pp. 152-158, 2010.
Lucrări / studii prezentate la manifestări științifice naționale/internaționale sub formă de conferință orală sau poster	
1.	Andrioaia D. A. , Pascu M., Obreja C., <i>Determining the Geometry Errors in a Mechanism with Delta type Parallel Structure</i> , 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 Iași, Departamentul TCM, Sinaia, România, http://modtech.ro , Conferință orală.
2.	Andrioaia D. A. , Stan. G., <i>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</i> , 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/ , Conferință orală.
3.	Andrioaia D. A. , Rotar D., <i>The influence of the articulated deviations from the kinematical active pairs on the positioning accuracy within the workspace of the Delta 3DOF parallel robots</i> , Proceedings of the International Conference on Industrial Power Engineering. The 9-th Edition, ISSN 2069 - 9905, Vol. 1, pp. 7-12, Per. 22.05.2014 - 24.05.2014, Org. Universitatea "Vasile Alecsandri", Facultatea de Inginerie, Departamentul E.S.C, Bacău, România, http://ciei.ub.ro/2014/ , Conferință orală.
4.	Andrioaia D. A. , Rotar D., <i>Determining the Driving System for Robots with Delta 3 DOF Parallel Structure, Using SolidWorks</i> , 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" Technical University of Iași, 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/ , Conferinţă orală.
5.	Andrioaia D. A. , Culea George, Rotar Dan, <i>The Optimization of the Geometric Parametres of the Five-Bar Manipulator According to the Given Workspace Using the Method of the Genetic Algorithm</i> , 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.
Contracte de cercetare științifică	
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 internațional, Nr. 7-061/2012, Robot multi-articulat cu mișcări 3D independente pentru operațiuni de poziționare precisă “ROBOBUILD”,

Data completării,

4.01.2016

Semnătura,

Asist. univ. dr. ing. Andrioaia Dragoş-Alexandru