

**LISTA DE LUCRĂRI ȘTIINȚIFICE (extras)**  
publicate în perioada 2010-2015

**I3 Lucrări în reviste cotate ISI**

**2012**

1. Telea D., **Popp I.**, Some aspects regarding the degree of knowledge and applicability in the management of the kanban systems implementation to be pursued by students in engineering practice, International Conference on Engineering & Business Education, Innovation and Entrepreneurship Sibiu, Romania, 18 - 21 October, 2012 Book of Abstracts, p. 39, Sibiu, 2012

**I4 Lucrări în volume ale conferințelor indexate Thomson Reuters (ISI Proceedings)**

**2010**

1. **Popp I.O.**, Barsan I., Using an Object-oriented Approach for Scalable Flexibility in Manufacturing, OPTIROB, PROCEEDINGS of the Fifth (2010) International Conference on Optimisation of the Robots and Manipulators, Published by Research Publishing Services, ISBN 978-981-08-5840-7 Edited by Adrian Olaru, 2010, pp. 246-250, [ISBN 978-1-84626-xxx-x, IACSIT, 9 Jurong Town Hall Road iHUB, Printed in Singapore 609431, ([www.iacsit.org](http://www.iacsit.org))].
2. Barsan I., **Popp I.O.** *Researches regarding the use of Electrohydraulic Servosystems at Industrial Robots*, OPTIROB, PROCEEDINGS of the Fifth (2010) International Conference on Optimisation of the Robots and Manipulators, ISBN 978-981-08-5840-7, Edited by Adrian Olaru, Calimanesti, Romania, 28-30 May, 2010, pp. 121-125, [ISBN 978-1-84626-xxx-x, IACSIT, 9 Jurong Town Hall Road iHUB, Printed in Singapore 609431, ([www.iacsit.org](http://www.iacsit.org))].

**2011**

3. Barsan Ioan, **Popp Ilie Octavian**, *An Analysis Method of the Electro-hydraulic Rotational Module*, Proceedings of 2011 International Conference on Optimization of the Robots and Manipulators (OPTIROB 2011), Published by Research Publishing Services, ISBN 978-981-08-5840-7 Edited by Adrian Olaru

**2012**

4. **Popp Ilie Octavian**, Barsan Ioan, *Using an Object-oriented Approach for Scalable Flexibility in Manufacturing*, Advanced Materials Research Vols. 463-464 (2012) pp 1035-1038, Online available since 2012/Feb/10 at [www.scientific.net](http://www.scientific.net), © (2012) Trans Tech Publications, Switzerland, doi:10.4028/www.scientific.net/AMR.463-464.1035.
5. **Popp Ilie Octavian** *Consideration regarding the Monitoring and Diagnosis of Manufacturing Systems*, ANNALS of the Oradea University, Fascicle of Management and Technological Engineering, Volume (XX), Nr. 2, CD-ROM Edition, ISSN 1583-0691, 2012 S4 NR1/4. p. 122-127. (65).
6. Barsan Ioan, **Popp Ilie**, *An Analysis Method of the Electro-hydraulic Rotational Module*, Advanced Materials Research Vols. 463-464 (2012) pp 1081-1084, © (2012) Trans Tech Publications, Switzerland, doi:10.4028/www.scientific.net/AMR.463-464.1081

7. Barsan Ioan, **Popp Ilie**, *Researches regarding the use of Elctrohydraulic Servosystems at Industrial Robots*, Advanced Materials Research Vols. 463-464 (2012) pp 1295-1298, © (2012) Trans Tech Publications, Switzerland, doi:10.4028/www.scientific.net/AMR.463-464.1295.

## 2014

8. **POPP Ilie Octavian**, TELEA Dorin, *Consideration Regarding the Configuration of the Resources and Modeling the Manufacturing Work cell*, ICAMaT 2014 - 7th International Conference on Advanced Manufacturing Technologies, 23-24 October 2014, University POLITEHNICA of Bucharest, published in the Applied Mechanics and Materials ISSN: 1662-7482, volume available in full text online at [www.scientific.net](http://www.scientific.net), Trans Tech Publications, Switzerland, doi:10.4028.
9. TELEA Dorin, **POPP Ilie Octavian**, *Elements Design of the Equipment for the Closing of Shock Absorbers Through the Rolling Method*, ICAMaT 2014 - 7th International Conference on Advanced Manufacturing Technologies, 23-24 October 2014, University POLITEHNICA of Bucharest, published in the Applied Mechanics and Materials, volume available in full text online at [www.scientific.net](http://www.scientific.net), Trans Tech Publications, Switzerland, doi:10.4028.
10. BARBU Stefan, TELEA Dorin, **POPP Ilie Octavian**, *Study on Improving the Functional Performance of Linear Motion Systems*, ICAMaT 2014 - 7th International Conference on Advanced Manufacturing Technologies, 23-24 October 2014, University POLITEHNICA of Bucharest, published in the Applied Mechanics and Materials, volume available in full text online at [www.scientific.net](http://www.scientific.net), Trans Tech Publications, Switzerland, doi:10.4028.

## 15 Lucrări în reviste indexate BDI (Engineering Village, Scopus, etc.)

### 2010

1. **Popp I.O.**, Some Considerations Regarding the Partnership in Maintenance, ANNALS of the ORADEA UNIVERSITY. Fascicle of Management and Technological Engineering, Volume IX (XIX), Nr. 1, S4 CD-ROM Edition, ISSN 1583-0691, CNCSIS "Clasa B+" (ISBN 978-606-10-0128-6), 2010 pp. 4.223-226. ([www.imtuoradea.ro](http://www.imtuoradea.ro))
2. **Popp I. O.**, Considerations regarding Workcell Supervisory Control for Flexible Manufacturing Systems, ACADEMIC JOURNAL OF MANUFACTURING ENGINEERING, VOL. 8, ISSUE 2/2010, pp.69-74, Editura Politehnica, Timisoara
3. Telea D., Barbu St., **Popp I.O.**, Automatised Line with Charging/Evacuating Transfer System of the Workingpost used for the Assembly/Test Disc Type Parts, ACADEMIC JOURNAL OF MANUFACTURING ENGINEERING, VOL. 8, ISSUE 2/2010, pp.81-86, Editura Politehnica, Timisoara, ([www.eng.upt.ro/auif](http://www.eng.upt.ro/auif)).
4. Barsan I., **Popp I.O.**, Researches regarding the Operating Robots in Flexible Manufacturing Cells, ROBOTICA & MANAGEMENT, International Journal Vol. 15 No. 1, pp. 13-16, ISSN 1453-2069, 2010, Edited by Robotics Society of Romania, "Eftimie Murgu" University of Resita, "Politehnica" University of Timisoara
5. Telea D., **Popp I.O.**, Barbu St., Automatic Line whit Transfer System used for Assembly/Testing of Disc Type Parts in Automotive Industry, ROBOTICA & MANAGEMENT International Journal Vol. 15 No. 1, pp 7-12, ISSN 1453-2069, 2010, Edited by Robotics Society of Romania, "Eftimie Murgu" University of Resita, "Politehnica" University of Timisoara.

### 2011

6. **Popp Ilie Octavian**, Barsan Ioan, *Some Consideration Regarding the Architecture Model Conception for the Manufacturing Workcell*, ROBOTICA & MANAGEMENT, International

Journal Vol. 16 No. 1, pp. 33-36, ISSN 1453-2069, 2011, Edited by Robotics Society of Romania, "Eftimie Murgu" University of Resita, "Politehnica" University of Timisoara

7. Barsan Ioan, **Popp Ilie Octavian**, *Pescreenig and Evaluation of a Flexible Manufacturing System*, ANNALS of the Oradea University, Fascicle of Management and Technological Engineering, Volume X (XX), Nr. 2, CD-ROM Edition, ISSN 1583-0691, 2011, S5 pp. 1-6
8. Barsan Ioan, **Popp Ilie Octavian**, *Using the Electro-hydraulic Servo-system of Swinging in the MA 210 Robot's Structure*, Academic Journal of Manufacturing Engineering, Volume 9, ISSUE 2/2011, pp. 6-11, Editura Politehnica, Timisoara, 2011
9. Barsan Ioan, **Popp Ilie Octavian**, *Researches Regarding the Use of Elctrohydraulic Servosystems at Industrial Robots*, , ROBOTICA & MANAGEMENT, International Journal Vol. 16 No. 1, pp. 3-7, ISSN 1453-2069, 2011, Edited by Robotics Society of Romania, "Eftimie Murgu" University of Resita, "Politehnica" University of Timisoara

## 2012

10. Telea Dorin, **Popp Ilie**, *Aspects regarding the Advantages of Implementation of the Pull Kanban System on a Shock Absorbers Assembly Line*, ANNALS of the Oradea University, Fascicle of Management and Technological Engineering, Volume (XX), Nr. 2, CD-ROM Edition, ISSN 1583-0691, S4 NR2/4. p. 144-149. 2012.
11. Telea Dorin, **Popp Ilie**, *The steps used at Pull Kanban System implementation on a Shock Absorbers Assembly Line to Bilstein SA Sibiu*, ANNALS of the Oradea University, Fascicle of Management and Technological Engineering, Volume (XX), Nr. 2, CD-ROM Edition, ISSN 1583-0691, S4 NR1/4. p.149-152, 2012.

## 2014

12. **Ilie POPP**, Dorin TELEA, *Some Aspects of Development and Programming a Wheels Mobile Robot Using the ARDUINO Development Board*, ANNALS of the Oradea University, Fascicle of Management and Technological Engineering, Volume XXIII, Issue 1, ISSN 1583-0691, 2014, Section *Mechatronics* pp. 315-318, International Conference IMT Oradea 2014, 29<sup>th</sup>- 31<sup>st</sup> of May, Baile Felix, România

## 2015

13. **Popp Ilie Octavian**, *Consideration the Work Cell Conceptual Model for increasing the Flexibility of Manufacturing (ID: 2014-162)*, International Journal of Systems Applications, Engineering & Development, Volume 9, 2015, Pages: 68-76, ISSN: 2074-1308, (SCOPUS/EI Compendex Journals of NAUN.org), [http://www.naun.org /cms.action?id=10211](http://www.naun.org/cms.action?id=10211).

## I25 Lucrări în volumele unor conferințe internațional

### 2010

1. **Popp I.O.**, Barsan I., *Consideration regarding the Benefits of Condition Monitoring Techniques for Predictive Maintenance*, ICMaS, PROCEEDINGS in MANUFACTURING SYSTEMS, Vol. 5 (2010), ISSN 2067-9238, pp.337-340, University POLITEHNICA of Bucharest, Editura Academiei Romane
2. Barsan I., **Popp I.O.**, *Electro-hydraulic Servo-system Stability Analysis*, ICMaS, PROCEEDINGS in MANUFACTURING SYSTEMS, Vol. 5 No.2 (2010), ISSN 2067-9238, pp.101-108, University POLITEHNICA of Bucharest, Editura Academiei Romane.
3. **Popp I.O.**, *Consideration regarding some Preventive Maintenance Procedures for Hydraulic Systems*, Management of Sustainable Development – Journal vol. 2 nr1/2010, pp. 44-47, Lucian Blaga University of Sibiu, 2010.

## 2011

4. Barsan Ioan, **Popp Ilie Octavian**, *The Dynamic Behaviour of the Electro-hydraulic Servosystems for Industrial Robots*, PROCEEDINGS of the 5<sup>th</sup> International Conference on Manufacturing Science and Education- MSE 2011- Sibiu, ISSN 1843-2522, vol. 1, pp. 273-276.
5. Telea Dorin, **Popp Ilie Octavian**, *Design of Equipment Elements for Closing of Shock absorbers Through the Rolling Method*, PROCEEDINGS of the 5<sup>th</sup> International Conference on Manufacturing Science and Education- MSE 2011- Sibiu, ISSN 1843-2522, vol. 1, pp. 357-360.

## 2012

6. **Popp Ilie Octavian**, *Somes Aspects regarding the Maintenance of Bearings*, 11<sup>th</sup> International Scientific Conference, NOVI SAD, SERBIA, 2012.
7. **Popp Ilie Octavian**, *The Basalt-a Material used in Machine Tools Parts Manufacturing*, Proceedings of 4<sup>th</sup> International Conference, "Advanced Composite Materials Engineering" COMAT 2012, 18- 20 October 2012, Braşov, Romania ( editura DERC Publishing House USA.).

## 2013

5. **Popp Ilie Octavian**, *Consideration Regarding the Role of Sensors in Manufacturing Systems*, PROCEEDINGS of the 6<sup>th</sup> International Conference on Manufacturing Science and Education- MSE 2013- Sibiu, ISSN 1843-2522, 2013.
6. **Popp Ilie Octavian**, *Consideration Regarding the Diagnosis and Repair of Bearings*, 6th Symposium Durability and Reliability of Mechanical Systems SYMECH, Tirgu-Jiu, 2013.

## 2015

7. **Popp Ilie Octavian**, *Scalable Flexibility of Manufacturing used CORBA (ID:72201-220)*, PROCEEDINGS of 9<sup>th</sup> International Conference on Computer Engineering and Applications (CEA '15), Dubai, United Arab Emirates, February 22-24, 2015. <http://www.wseas.org>.

## I24 Lucrări in International Journal on-line (Website)

1. **Popp Ilie**, *The Basalt-a Material Used in Machine Tools Parts Manufacturing*, International Journal of Material and Mechanical Engineering (IJMME-Journal Website) *Science and Engineering Publishing Company* <http://www.seipub.org> ISSN Online: 2164-280X, 2013.
2. Dorin Telea, **Ilie Popp**, *Consideration regarding the Implementation of Pull Kanban System on a Plant Manufacturing Line* International Journal of Modern Engineering Research (IJMER Journal Website), Vol. 3, Issue. 1, Jan.-Feb. 2013, [www.ijmer.com](http://www.ijmer.com), ISSN: 2249-6645, 2013
3. **POPP Ilie Octavian**, *Consideration Regarding the Conceptual Model of the Manufacturing Workcell*, Integrated Journal of British (*International Journal on-line*) ISSN: 2349-9419, Issue 4, nov-dec. 2014, UIFactor: 3.3275, Manuscript ID IJBRITISH-180, [www.ijbritish.com](http://www.ijbritish.com).

### A. Teza de doctorat:

"Contribuții la cercetarea comportării bazaltului supus unor solicitări specifice mașinilor unelte", (*Contributions to research the behavior of basalt subject to specific requests of machine tools*) Teză de doctorat in specializarea *Tehnologia Materialelor*, Universitatea "Lucian Blaga" din Sibiu, 217 pag., conducător științific: Prof.dr.ing. Valeriu DEAC, 1999.

### B. Materiale didactice publicate (extras):

1. Bârsan I., Telea D., Bogdan L., **Popp I.** - Îndrumar de laborator: **ACȚIONĂRI ȘI COMENZI HIDRAULICE - Probleme, Teste, Aplicații**, Ed. Universitatii. "L. Blaga", 1997, ISBN 973-9280-63-3.

2. Telea D., Fetche V., Bârsan I., Bogdan L., **Popp I.**, - curs universitar - **MAȘINI - UNELTE - Construcția și cinematica**, Ed. Univ. "Lucian Blaga" din Sibiu, 1997, ISBN 973-9280-55-2.
3. **Popp I.**, Telea D., Cărpinișan A. - curs universitar: **EXPLOATAREA MAȘINILOR UNELTE CU COMANDĂ NUMERICĂ**, Editura Universității "Lucian Blaga" din Sibiu, 2000, ISBN 973-651-224-x. 250
4. Telea D., Breaz R., **Popp I.**, Ceusianu Al., - curs universitar **MAȘINI, UTILAJE ȘI STRATEGII ÎN SISTEME FLEXIBILE DE PRODUCȚIE**, Editura DACIA, Cluj-Napoca, 2001, ISBN 973-35-1300 8.
5. **Popp I.** - **EXPLOATAREA, REGLAREA SI INTRETINEREA MASINILOR UNELTE** – *Aplicatii* – Editura Universitatii Lucian Blaga Sibiu, ISBN 973-651-629-6, 198 p. Sibiu 2003.
6. Telea D., **Popp I.**, Breaz R., **MAȘINI, ECHIPAMENTE ȘI STRATEGII ÎN SISTEME INTEGRATE DE PRODUCȚIE**, *editia a II a*, Editura DACIA, Cluj-Napoca, 2008, ISBN 973-35-1300 8.
7. Telea D., **Popp I.**, Breaz R.E., *Masini, echipamente si strategii in sisteme flexibile de productie*, Editura Universitatii *Lucian Blaga* Sibiu, ISBN 978-973-739-794-2, Sibiu, 2012, *editie revizuita si completata*, 594 pag.

### C. Contracte de cercetare stiintifica (extras):

1. Contract nr. 6229/2000 tema B3 -membru în colectiv- "*Cercetări privind realizarea unor sisteme de control ale mișcărilor multiaxiale comandate prin calculator*" beneficiar CNCSIS.
2. Contract nr. 6/ 2002 – membru in colectiv - *Studii si cercetari privind optimizarea tehnologiei de prelucrare pe strunguri CNC*" beneficiar SC KRUPP –BILSTEIN SA Sibiu.
3. Contract nr. 8/ 2002 *Masina speciala pentru prelucrare locas hexagonal la tijele de amortizor la S.C. Krupp Bilstein Compa SA Sibiu.*
4. Contract cu Universitatea Tehnica Cluj-Napoca – (cercetator grupa MU-ULB Sibiu)– *Cercetari structurale geometrice cinematice si dinamice avansate privind conceperea unui simulator deschis de zbor adaptat la cerinte speciale (ASKOT-CEEX120), 2006-2008.*

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