Universitatea "Politehnica" din București
Facultatea de Automatică și Calculatoare
Departamentul de Automatică și Ingineria Sistemelor

# LISTA DE LUCRĂRI

## Candidat: CULIȚĂ Janetta

## I. TEZA DE DOCTORAT

**Culiță J.** "Contribuții la sinteza sistemelor de monitorizare pentru fabricația integrată cu calculatorul", Coordonator Prof.dr.ing. Tertisco Mihai, susținută în 2001, Sisteme Automate, UPB

## II. CĂRȚI PUBLICATE (C)

Ca – Cărți / cursuri (manuale) pentru uzul studentilor, publicate în edituri recunoscute.

Cb - Cărți de specialitate publicate în edituri recunoscute (autor, coautor, editor);

**Cb1.** Ionescu F., Ștefănoiu D., **Culiță J.** – Prediction ARMA versus ondelletes in : Automatique Avancee et Informatique appliqué (pp. 149-158) , Editura Academiei Romane , (P. Borne, Gh, Filip, M. Benrejeb, D. Popescu) Editors, 2009, ISBN: 978-973-27-1806-3, [CNCSIS cod 164].

**Cb2.** **Culiță J.**, Ștefănoiu D. – Modelare analitică și experimentală, Editura Printech, 2008, 230 pag., ISBN 978-973-718-987-5, [CNCSIS cod 164].

**Cb3.** Ștefănoiu D., **Culiță J.**, Stoica P. – Fundamentele Modelării și Identificării sistemelor, Editura Printech, 2005, 330 pag., ISBN : 973-718-368-1, [CNCSIS cod 164].

**Cb4.** Caramihai M., **Culiță J.** , Șerban A., Găloiu Ș. – Certificare Expert Microsoft Word - notiuni de baza, Editura Cartea Studenteasca, ISBN: 978-973-8952-00-3, 159 pag., Bucuresti 2006.

**Cb5.** **Culiță J.** , Caramihai M., Șerban A., Găloiu Ș. – Procesarea de baza Word, Editura Cartea Studenteasca, ISBN: 973-87229-4-2. (CD atasat ISBN ), 130 pag., Bucuresti 2005.

**Cb6.** **Culiță J.** (coordonator), Ciochină L. - Calcul tabelar, Editura ALMAROM, ISBN 973-8467-69-1, 125 pag., Rm.Valcea 2005.

## III. ALTE MATERIALE PUBLICATE (I,D)

**I.** Culegeri și Îndrumare publicate (separate în edituri cu ISBN și în tipografii locale/de instituții sau de uz intern).

**I1.** Ștefănoiu D., **Culiță J.**, Tudor F.S.– Abordari experimentale de identificare a proceselor si fenomenelor, Editura AGIR, 2012, 300 pag., ISBN 978-973-720-435-6, [CNCSIS cod 140].

**I2.** Caramihai S.I. , **Culiță J.**, Munteanu C. A.– *Modelarea si analiza sistemelor cu evenimente discrete – 103 Probleme,* Editura Printech, ISBN 973 – 652 – 771 – 9, 75 pag., București, iulie 2003 [CNCSIS cod 164]

**I3**. Tertișco M, Racoviță Z, Iacob F, **Culiță** (Mereuță) **J**. - Elemente de Stiinta Sistemelor si Calculatoarelor, Ed. UPB, Bucuresti, 1995.

## IV. ARTICOLE / STUDII IN EXTENSO PUBLICATE (R,V)

**Ris** Reviste de specialitate de circulație internațională recunoscute (cotate / indexate ISI Thomson Reuters, sau indexate in alte Baze de Date Internationale - BDI specifice domeniului, care fac un proces de selectie a revistelor pe baza unor criterii de performanta.

**Ris1**. Ștefănoiu D, **Culiță J**. - Optimal Identification and Metaheuristic PID Control of a Two Tank System, Electronics 2021, 10(9). ISSN: 2079-9292. DOI: 10.3390/electronics10091101. WOS:000649995200001; [Q3 2020 IF =2.397].

**Ris2**. **Culiță J**., Caramihai S. I., Dumitrache I., Moisescu M. A., Sacală I. S - A Hybrid Approach for Urban Traffic Prediction and Control in Smart Cities, Sensors 20(24), 2020. ISSN: 1424-8220. DOI: 10.3390/s20247209 WOS: 00060321990000; [Q1/Q2 2020 IF=3.576].

**Ris3**. Ștefănoiu D. **Culiță J**. -Joint Stochastic Spline and Autoregressive Identification Aiming Order Reduction based on Noisy Sensor Data, Sensors 20(18), nr. 5038; 2020. ISSN: 1424-8220. DOI: 10.3390/s20185038. WOS:000580261500001; [Q1/Q2 2020 IF 2020 =3.576].

**Ris4**. Ștefănoiu D., **Culiță J**., Ionescu F.- Vibration Fault Diagnosis through Genetic Matching Pursuit Optimization, Soft Computing, 23(17), pp. 8131-8157, 2019. ISSN: 1432-7643. DOI: 10.1007/s00500-018-3450-0. WOS:000486914400039; [Q2 2020 IF=3.643].

**Ris5**. Ștefănoiu D., **Culiță J**., Stănășila O. HYRON -An Installation to Produce High Purity Hydrogen and Soft Iron Powder from Cellulose Waste. Materials, vol. 12, nr 9, 2019. ISSN: 1996-1944. DOI: 10.3390/ma12091538. WOS:000469757500179; [Q1/Q2 2020 IF =3.623].

**Ris6**. Ștefănoiu D., Dumitrascu A., **Culiță J**.- Lossy Vibration Compression through Matching Pursuit, in Control Engineering and Applied Informatics, 18(4), pp 45-56. 2016. ISSN 1454-8658.WOS:000390834600005; [IF 2019=0.775].

**Ris7**. Ștefănoiu D., **Culiță J**.- Multi-Variable Prediction of Physical Data (E), "Politehnica" University of Bucharest Scientific Bulletin, A Series – Applied Mathematics and Physics, Vol. 72, No. 1, pp. 95-102, January 2010. ISSN: 1223-7027. WOS:000275788700012 [IF 2019=0.619].

**Ris8**. Ștefănoiu D., **Culiță J**., Ionescu F. - Fast Methods for Identification of Vibration Defects, "Politehnica" University of Bucharest Scientific Bulletin, C Series – Electrical Engineering, Vol. 71, No. 1, pp. 33–44, February 2009. ISSN: 1454-2331 [BDI Scopus, Inspec].

**Ris9**. Caramihai S.I., Munteanu C.A., **Culiță J**. – A decision support system for communication network analysis based on hybrid Petri net models, Control Engineering and Applied Informatics, vol 10, nr. 1, pp. 23-32, March 2008. ISSN 1454-8658 [BDI: DBLP].

**Ris10**. **Culiță J**., Ștefănoiu D., Ionescu F. -Semi-Empirical Methods for Bearings Diagnosis, "Politehnica" University of Bucharest Scientific Bulletin, C Series – Electrical Engineering, Vol. 70, No. 4, pp. 61–74, November 2008. ISSN: 1454-2331. [BDI: Scopus, Inspec].

**Ris11**. Ștefănoiu D., **Culiță J**. - Signal Compaction by Maximum Verisimilitude (E), "Politehnica" University of Bucharest Scientific Bulletin, C Series – Electrical Engineering, Vol. 70, No. 3, pp. 59–74, June 2008. ISSN: 1454-2331. [BDI Scopus, Inspec].

**Ris12**. Munteanu C.A., Stănescu A.M., Caramihai S.I., **Culiță J**. – Algorithmic transition grouping for speed calculation in a time continuous Petri net, Buletinul Stiintific al UPB, seria C, vol. 67, nr.4, pp. 73-80, 2005. ISSN 1454-2331 [BDI: Inspec].

**Ris13**. **Culiță J**., Ștefănoiu D., Ionescu F. - Simulation Models of Defect Encoding Vibrations, Control Engineering and Applied Informatics, ISSN 1454-8658, vol 9, nr. 2, pp. 59-67, June 2007. [BDI, CNCSIS B+]

**Ris14.** **Culiţă J.**, Caramihai S.I., Stănescu A.M. – The desynchronizing dysfunction avoidance in FMSs for monitoring purposes, Control Engineering and Applied Informatics, ISSN 1454-8658, vol. 3, nr. 2, pp. 37-55, July 2001 [BDI, CNCSIS B+].


**Rno** - Alte reviste de specialitate de circulaţie naţională.

**Rn1.** Bordea Gh., Tertişco M., *Culiţă* J.- Reţele Petri binare în spatiul de stare Bäckström-Klein, Revista de Informatica Economica, Ed. INFOREC, Vol. 1 Nr. 2, pp. 5-8, Bucuresti 1997.


**VisI**- Volumele unor manifestări ştiinţifice internaţionale recunoscute, organizate in ţară şi străinătate, indexate ISI Thomson Reuters sau indexate in alte Baze de Date Internationale - BDI specifice domeniului, care fac un proces de selectie a publicatiilor pe baza unor criterii de performanta.


**Vis1.** **Culiţă J.**, Ştefănoiu D.- Multi-model identification of Pumping System in ASTANK2 Plant, Proceedings of the 21-st International Conference on Control Systems and Computer Science, CSCS-21, 29-31 May 2017 pp.59-66, WOS:000449004400008.

**Vis2.** **Culiţă J.**, Ştefănoiu D., Dumitrascu A.- ASTANK2: Analytical Modeling and Simulation, Proceedings of the 20-th International Conference on Control Systems and Computer Science, CSCS-20, 27-29 May 2015, Bucharest, Romania, pp. 141-148 (Vol. 1), WOS:000380375200020.

**Vis3.** Dumitrascu A., Istratescu C. S., Ştefănoiu D., **Culiţă J.**-Environment Communication and Control Systems Integrated on Teaching Platforms – Case Study: Double Water Tank System, Proceedings of the the 20-th International Conference on Control Systems and Computer Science, CSCS-20, 27-29 May 2015, Bucharest, Romania, pp. 941-945 (Vol. 2), WOS:000380375200138.

**Vis4.** Ştefănoiu D., **Culiţă J.**, Dumitrascu A. - Fast Prediction Algorithms for Distributed Time Series, Proceedings of the International Work Conference on Time Series Analysis ITISE 2014, Granada, Spania, June 25–27, 2014, pp. 735-746; WOS:000359136600082.

**Vis5.** **Culiţă J.**, Ştefănoiu D., Dumitrascu A. – Intelligent Forecasting of Indoors Ecological Processes, in Advances in Intelligent Control Systems and Computer Science, pp. 339-354, Springer-Verlag, ISBN 978-3-642-32547-2, Berlin, 2013; WOS:000312752500024.

**Vis6.** Dumitraşcu A., Ştefănoiu D., **Culiţă J.** - Remote Monitoring and Control System for Environment, in Advances in Intelligent and Control Systems and Computer Science, pp. 223-234, Springer-Verlag, ISBN 978-3-642-32547-2, Berlin, 2013; WOS:000312752500016.

**Vis7.** Ştefănoiu D., Florin T., **Culiţă J.** - WINTUS – A Simulator for Usual Wind Turbines. Proceedings of the 10th Industrial Simulation Conference ISC-2012, Brno, Czech Republic, June 4–6, 2012; pp. 93-100. WOS:000394722200015.

**Vis8.** **Culiţă J.**, Ştefănoiu D., Dumitrascu A.- EcoMonFor – A System for Greenhouses Monitoring and Forecasting, Proceedings of the Industrial Simulation Conference ISC-2011, Venice, Italy, June 6–8, 2011, pp. 262-269; WOS:000393442400040.

**Vis9.** **Culiţă J.**, Ştefănoiu D. – FORTIS – An Integrated Simulator for Distributed Time Series Forecasting, Proceedings of the Industrial Simulation Conference ISC-2010, Budapest, Hungary, June 7–9, 2010, pp. 27-33; WOS:000396178800005.

**Vis10.** Ştefănoiu D., Seraficeanu C., **Culiţă J.**, Muscă Gh. – Identification of MIMO-ARMAX Models for Glycemia and Sodium Ions Tests, through Particle Swarm Optimization, Proceedings of the 7-th International IEEE Conference on Control and Automation, IEEE-

ICCA'09, Christchurch, New Zealand , December 9-11, 2009, pp. 643–650, WOS:000280542300111.

**Vis11.** Ștefănoiu D, **Culiță J** - PARMAX- A predictor for distributed time series, Industrial Simulation Conference, Proceedings of the Industrial Simulation Conference ISC 2009, Loughborough, UK, 1-3 iunie 2009, pp. 5-12. WOS:000280184200001.

**Vis12.** Ștefănoiu D., **Culiță J.,** Ionescu F. – FORWAVER - An wavelet –based predictor for nonstationary signals, Proceedings of the Industrial Simulation Conference ISC 2008, Lyon, France, ,9-11 June 2008, pp. 377-381, WOS:000263829300057.

**Vis13.** Munteanu C., Caramihai M., **Culiță J**. - Modular Approach Based Decision Support for Communication Systems, Proceedings of 5th Industrial Simulation Conference ISC 2007, Delft, Nederland, 11-13 iunie 2007, pp. 345-349, WOS:000255638100051.

**Vis14.** Dumitrache I., Caramihai S.I., **Culiță J.,** Munteanu C., Stănescu A.M. – Intelligent autonomous agents for manufacturing - Proceedings of the 9th IFAC Symposium on Large Scale Systems: Theory and Application, Bucharest, Romania, 18-20 July 2001, pp. 493-498. WOS:000180832900078.

**Vis15. Culiță J.,** Caramihai S.I., Stănescu A.M.– Monitoring of the desynchronizing dysfunctions in flexible manufacturing systems - Proceedings of the 9th IFAC Symposium on Large Scale Systems: Theory and Application, Bucharest, Romania, 18-20 July 2001, pp. 505-510; WOS:000180832900080.

**Vis16.** Tertișco M., **Culiță J**.- The plan existence problem for a discrete event system- Proceedings of the 4th IFAC Conference on System Structure and Control CSS 1997, Bucuresti, Romania, 21-25 October 1997, pp. 185-188, WOS:000079976400027.

**Vis17.** Dumitrașcu A., Stefănoiu D., **Culiță J.,** Tomita I.- Distributed System for Remote Monitoring and Control of Greenhouse Environment (E), The 18-th International Conference on Control Systems and Computer Science, CSCS-18 (ISSN 2066-4451), Bucharest, Romania, pp. 138-144 (Vol. 1), May 25–28, 2011. [BDI: DBLP].

**Vis18. Culiță J**., Dumitrașcu A., Stefănoiu D.- Real Time Monitoring and Forecasting of Ecological Processes (E), The 18-th International Conference on Control Systems and Computer Science, CSCS-18 (ISSN 2066-4451), Bucharest, Romania, pp. 34-40 (Vol. 1), May 25–28, 2011. [BDI: DBLP].

**Vis19.** Stefănoiu D., **Culiță J**. - Kalman Filtering of Distributed Time Series, 17th Intl. Conf. on Control Systems and Computer Science, CSCS17, Bucharest, Romania, 26-29 Mai 2009, vol. 1, ISSN: 2066-4451, pp. 101-108. [BDI DBLP].

**Vis20.** Caramihai S.I., Dumitrache I., Stănescu A.M., Munteanu C., **Culiță J**. - Using Mobile Agent-based Techniques in Knowledge Management for Organisational Network Interoperability, Proceedings of the 4th IFAC Conference on Management and Control of Production and Logistics 2007, vol. I, pp. 203-208, 27-30, September 2007, Sibiu, Romania, IFAC Papers Online, [BDI: Scopus].

**Vis21.** Caramihai S.I., Dumitrache I., Stănescu A.M., **Culiță J**. - A cooperative enterprise agent-based control architecture. In: Proceedings of 5th IFAC International Workshop DECOM-TT 2007, ISBN 978-975-01864-1-7., pp. 245-250, 17-20 May 2007, Cesme-Izmir, Turkey. [BDI: DBLP].

**Vis22. Culiță J.,** Caramihai S.I, Munteanu C.- Hybrid Petri net Model based Decision Support System, 16th Conference on Control Systems and Computer Science, ISBN 978-973-718-741-3, pp. 107-112, 25-27 Mai 2007, Bucuresti, Romania [BDI: DBLP]

**Vis23.** Stănescu A.M., **Culiță J.,** Caramihai S.I - A new approach for hybrid technology-based workflow management systems design - Proceedings of the 12th IFAC International

Symposium on Information Control Problems in Manufacturing INCOM 2006, ISBN: 978-390266104-3, Vol. 39, issue 3, pp. 385-390, 17-19 May 2006, Saint Etienne, France, Elsevier Ltd., Oxford UK. (IFAC-PapersOnline), [BDI: Scopus].

**Vis24.** Stănescu A.M., **Culiță J.**, Caramihai S.I - A new approach for hybrid technology based workflow management systems design, Information Control Problems in Manufacturing, Eds. Dolgui, A., Morel, G., 2006, ISBN: 978-0-08-044654-7, DOI: 10.1016/B978-008044654-7/50194-1, pp. 363-369. [BDI: Scopus].

**Vis25. Culiță J.**, Caramihai S.I., Stănescu A.M.– Autonomous agent-based control/supervision architecture for flexible manufacturing systems - Proceedings of the 2nd Manufacturing Control and Problem Logistics Conference MCPL 2000, ISBN 0 08 043621 8 vol. 2, pp. 837-842, 5-8 July 2000, Grenoble, Franta, [BDI: Inspec XX2001-02658].


**Vi -** Volumele unor manifestări științifice internaționale recunoscute, organizate in țară și străinătate;

**Vi1.** Ștefănoiu D., Ionescu F., **Culiță J.**, -Prediction optimale a base d'ondellete, Conference Internationale Francofone d'Automatique CIFA 2008, septembrie, Bucuresti, Romania, Proceedings on CD, Paper # T2-R-00-0366, September 3–5, 2008.

**Vi2.** Stefanoiu D., *Culita* J. – Natural Phenomena Forecasting by Using Wavelets, International Symposium on Signal Processing and Its Applications ISSPA2008, Paris, France, Proceedings on CD, Paper #361, June 4–8, 2008.

**Vi3.** Ștefănoiu D., **Culiță J**. - Times series prediction and compression through wavelet packets, Proceedings of the 16th Conference on Control Systems and Computer Science, ISBN 978-973-718-741-3, pp.170-175, 25-27 May 2007, Bucuresti, Romania.

**Vi4. Culiță J.**, Munteanu C., Caramihai S.I. - Computer-based learning shell for discrete event system, Proceedings of the 15th Conference on Control Systems and Computer Science, ISBN 973-8449-89-8, vol. 1, pp. 225-230, 25-27 May 2005, Bucuresti, Romania.

**Vi5. Culiță J.**, Caramihai S.I., Stănescu A.M.– The desynchronizing dysfunction study in flexible manufacturing systems - Proceedings of the 13th International Conference on Control Systems and Computer Science, ISBN 973-85237-1-0, pp. 138-145, 31 May – 2 June 2001, UPB, Romania.

**Vi6.** Caramihai S.I., Munteanu C., **Culiță J**., Stănescu A.M. – Control arhitecture for FMSs based on supervised control of autonomous agents - Proceedings of the 13th International Conference on Control Systems and Computer Science, ISBN 973-85237-1-0, pp. 164-169, 31 May – 2 June 2001, UPB, Romania.

**Vi7. Culiță J.,** Stănescu A.M.- Petri nets-based implementation for fault detection in virtual factory - Proceedings of the First International Symposium on Concurrent Enterprising, ISOCE'98, pp. 127-135, 4-6 iunie 1998, Sinaia, Romania.

**Vi8.** Bordea Gh., Tertișco M., **Culiță J**.- Binary Petri nets in the Bäckström-Klein state space, Proceedings of the 11th International Conference on Control Systems and Computer Science, May 1997, Bucharest, Romania.

**Vi9.** Bordea Gh., Tertișco M., **Culiță J**.- A relational formalism for describing planning problem, Proceedings of the 3rd International Symposium of Economic Informatics, pp. 788-793, May 1997, Bucuresti, Romania.

**Vi10.** Tertișco M., **Culiță J**.- The statistical hierarchy for the power stations in an electric power system - Proceedings of the 3rd International Symposium of Economic Informatics, pp. 810-815, May 1997, Bucharest, Romania.

**Vi11.** Ştefănoiu D., **Culiţă J.**, Ionescu F. – Prédire avec des Ondelettes Orthogonales, Révue Électronique des Sciences et Technologies de l'Automatique (eSTA), ISSN: 1954-3522, Vol. 6, No. 2, Issue spéciale CIFA-2008, 2-ème partie, Papier #8 (10 pages), 2009. (http://www.e-sta.see.asso.fr/?lire=62&sm=6).

**Vn -** Volumele unor manifestări ştiinţifice naţionale.

**Vn1.** Ştefănoiu D., **Culiţă J.** – Multi-Variable Prediction of Physical Data, Poster at Special Anniversary Symposium "Dan Iordache 70", Bucharest, Romania, 12 pages, May 2009.

**Vn2.** Tertisco M., Vlad C., *Culiţă* J.,- Unele aspecte privind instruirea asistata de calculator - Simpozionul Stiintific National de Automatizare a Proceselor, mai 1994, Ploiesti, Romania.

**Vn2.** Calin S., Tertisco A., *Culiţă* J.,. - Identificarea defectelor apropiate in protectia liniilor de inalta tensiune - Conferinta Nationala de Energie, Sectiunea VI, iunie 1994, Neptun, Romania.

## V. BREVETE DE INVENŢIE / INOVAŢII (B,A)
**B** - Brevete de invenţie.
**A** - Inovaţii şi alte creaţii.

## VI. CONTRACTE ŞI RAPOARTE ŞTIINŢIFICE (P,F)
**P** – Proiecte de cercetare-dezvoltare – inovare obtinute prin competitie, pe bază de contract/grant, in tara/strainatate (**Pn** – nationale, **Pi** - internationale).

Pn1. Denumire : Dezvoltarea suportului formal necesar implementarii functiei de remediere a defectelor pentru celule de fabricatie. (2005) Numar contract : CNCSIS, AT, 27692/14.03.2005, cod CNCSIS 54, tema nr. 1. Director proiect : **Culiţă J.**

Pn2. Denumire : " Dezvoltarea suportului formal necesar implementarii functiei de monitorizare pentru celule de fabricatie ", (2002-2003). Director proiect : **Culiţă J.**

Faza I: Elaborarea unei metodologii unificate de modelare si detectie a defectelor in sisteme cu evenimente discrete, Numar contract : CNCSIS, AT 33784 / 23.07.2002 , cod CNCSIS 185, tema nr.6. Faza II : Dezvoltarea suportului formal necesar implementarii functiei de diagnoza pentru sisteme flexibile de fabricatie, Numar contract : CNCSIS, AT 33552/ 1.07.2003, cod CNCSIS 119, tema nr. 17.

**F** – Alte lucrări de cercetare – dezvoltare

Data:                                                                                                                    Semnatura:
30.06.2021