

## Lista publicatii SI. dr. ing. Iulia Clitan

### A1.1.1.-A1.1.2. Carti, monografii, capitoare ca autor, internationale si nationale

Nr.	Autori	Titlu capitol / carte	Editura	Anul
1	Tiberiu Coloși, <b>Iulia Clitan</b> , Mihaela Ligia Ungureșan, Vlad Mureșsan, Mihail Abrudean	Posibile extinderi ale matricei derivatelor parțiale a vectorului de stare, asociate unor categorii de ecuații cu derivate parțiale, Editura Galaxia Gutenberg, 2020, ISBN 978-973-141-878-0.	Galaxia Gutenberg	2020
2	Vlad Muresan, <b>Iulia Clitan</b> , Valentin Sita, Mihail Abrudean, Mihaela-Ligia Ungureșan	180 Isotope Separation Process Control. Chapter In: Gusikhin O., Madani K. (eds) Informatics in Control, Automation and Robotics. ICINCO 2018. Lecture Notes in Electrical Engineering, vol 613. Springer, Cham, 2020, pp 526-551, ISBN 978-3-030-31992-2. (71 librării WorlCat)	Springer	2020
3	Vlad Muresan, Valentin Sita, <b>Iulia Clitan</b> , Adrian Barstan	Identification and Control of a Car Speed Dynamics Using Artificial Intelligence, Chapter In: Groza A., Prasath R. (eds) Mining Intelligence and Knowledge Exploration. MIKE 2018. Lecture Notes in Computer Science, vol 11308. Springer, Cham, 2018, pp. 189 - 204, ISBN 978-3-030-05917-0. (208 librării)	Springer	2018

### A1.2.1. Materiale didactice

1	I. Clitan	Industrial plant control – Laboratory manual, ISBN 978-606-737-116-1	U.T. Press Cluj-Napoca	2015
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### A2.1. Articole in reviste cotate si in volumele unor manifestari stiintifice indexate ISI proceedings

Nr.	Autori	Titlu articol	Factor Impact	Nr. Aut
1	I. Inoan	"Movement control of an unloading machine from a rotary furnace", in 2010 IEEE International Conference on Automation, Quality and Testing, Robotics, AQTR 2010 - Proceedings, vol. 1, pp. 131-134, 2010.	0,25	1
2	T. Szelitzky, I. Inoan, D. Dumitrache	"Advantages of Robust Control for Series Load Frequency Controlled Induction Heating Inverters", in CONTROL ENGINEERING AND APPLIED INFORMATICS, vol. 13, no. 1, pp. 62-68, 2011.	0,338	3
3	I. Inoan, D.C. Dumitrache, T. Szelitzky	"A control system design for the positioning system of an unloading machine", in 2012 IEEE International Conference on Automation, Quality and Testing, Robotics, AQTR 2012 - Proceedings, pp. 161-165, 2012.	0,25	3
4	I. Inoan, D.C. Dumitrache, A.O. Neaga,	"Kinematics analysis and trajectory simulation of an unloading machine", in 2012 IEEE International Conference on Automation, Quality and Testing, Robotics, AQTR 2012 - Proceedings, pp. 434-437, 2012.	0,25	3
5	A.O. Neaga, C. Festila, E.H. Dulf, T. Szelitzky, R. Both, I. Inoan, M. Gligan	"Operational model of the 13C isotope separation column", in 2012 IEEE International Conference on Automation, Quality and Testing, Robotics, AQTR 2012 - Proceedings, pp. 96-102, 2012.	0,25	7
6	D.C. Dumitrache, F.E. Cristian, I. Inoan	"A fractional order adaptive controller for a 13C cryogenic isotope separation plant", in 2012 IEEE International Conference on Automation, Quality and Testing, Robotics, AQTR 2012 - Proceedings, pp. 140-143, 2012.	0,25	3
7	D.C. Dumitrache, F.E. Cristian, I. Inoan	"Estimation of the mass transfer coefficient for a 13C isotope separation process", in 2012 IEEE International Conference on Automation, Quality and Testing, Robotics, AQTR 2012 - Proceedings, pp. 206-209, 2012.	0,25	3

8	Iulia Inoan, Andrei Clitan	"A classic controller design for a billet's unloading machine using the IMC approach", 7TH INTERNATIONAL CONFERENCE INTERDISCIPLINARITY IN ENGINEERING (INTER-ENG 2013), in D145, vol. 12, pp. 28-33, 2014.	0,25	2
9	Iulia Clitan, Ionut Muntean	"Internal Model Control for a Hydraulically Driven Robotic Arm", in 2014 IEEE INTERNATIONAL CONFERENCE ON AUTOMATION, QUALITY AND TESTING, ROBOTICS, 2014.	0,25	2
10	Ionut Muntean, Iulia Clitan	"Digitization of continuous interval transfer functions: a revisited method and its application on a case study", in 2014 IEEE INTERNATIONAL CONFERENCE ON AUTOMATION, QUALITY AND TESTING, ROBOTICS, 2014.	0,25	2
11	Iulia Inoan, Mihail Abrudean	"Control of an Induction Motor Using the Relay Method Approach", in CONTROL ENGINEERING AND APPLIED INFORMATICS, vol. 16, no. 3, pp. 13-22, 2014.	0,537	2
12	Dan Dumitrache, Iulia Inoan, Bart De Schutter	"An analytic model for a C-13 isotope separation process by cryogenic distillation", in JOURNAL OF PROCESS CONTROL, vol. 24, no. 5, pp. 463-474, 2014. [ISI Q1]	2,653	3
13	I. Clitan, D. Moga, V. Muresan, N. Stroia, C. Lungoci, V. Sita, I.A. Mironiuc.	"Design of a temperature controller for an hyperthermic intraperitoneal chemotherapy equipment", 10th Jubilee International Symposium on Applied Computational Intelligence and Informatics (SACI), Timisoara, România, 21-23 Mai 2015, pp. 49-54.	0,25	7
14	I. Clitan, D. Moga, V. Muresan, N. Stroia, C. Lungoci, V. Sita	"Digital Temperature Control for an Hyperthermic Intraperitoneal Chemotherapy Equipment", 20th International Conference on Control Systems and Science (CSCS20), București, România, 27 –29 Mai 2015, pp. 98-103.	0,25	6
15	I. Clitan, V. Muresan, D. Moga, V. Sita, C. Lungoci	"Measured Signal Identification and Temperature Controller Design for a HIPEC Device", 38th International Conference on Telecommunications and Signal Processing (TSP), Praga, Cehia, 9-11 Iulie 2015, pp. 304-308.	0,25	5
16	C. Lungoci, V. Muresan, D. Moga, I. Clitan, R. Moga, V. Sita, T. Oniu and I.A. Mironiuc	"Advanced temperature control for innovative HIPEC equipment", International Conference on Health and Social Care Information Systems and Technologies (HCist), Vilamoura, Algarve, Portugalia, 7-9 Octombrie 2015, Procedia Computer Science, vol. 64, 2015, pp. 497-505	0,25	8
17	Mihaela-Ligia Ungureșan, Vlad Mureșan, Mihail Abrudean, Iulia Clitan, Tiberiu Coloși, Daniel Moga	"PID Control of a Chemical Absorption Process", The 20th International Conference on Control Systems and Computer Science (CSCS20), 27 –29 Mai, 2015, București, România, vol. 1, pag. 104 - 111	0,25	6
18	Vlad Mureșan, Mihail Abrudean, Tiberiu Coloși, Zoltan Kovendi, Mihaela-Ligia Ungureșan, Iulia Clitan	"Modeling and Simulation of the Carbone Dioxide Absorption Process in Ethanolamine Solution", The 20th International Conference on Control Systems and Computer Science (CSCS20), 27 –29 Mai, 2015, București, România, vol. 1, pag. 112 - 118	0,25	6
19	I. Clitan, V. Muresan, M. Abrudean, D. Moga, H. Valean, C. Lungoci, I.A. Mironiuc	"Flow and temperature control for an innovative Hyperthermic Intraperitoneal Chemotherapy Equipment", 19th International Conference on System Theory, Control and Computing (ICSTCC), Cheile Grădiștei-Fundata, România, 14-16 Octombrie 2015, pp. 162-167.	0,25	7

20	Vlad Muresan, Mihail Abrudean, Honoriu Vălean, Tiberiu Coloși, Mihaela-Ligia Ungureșan, Valentin Sita, Iulia Clitan, Daniel Moga	"Neural Modeling and Control of a 13C Isotope Separation Proces", 12th International Conference on Informatics in Control, Automation and Robotics (ICINCO), 21 – 23 Iulie 2015, Colmar, Franța, vol. 1, pp. 254-263	0,25	8
21	I.V. Sita, P. Dobra, D. Moga, R. Manescu, V. Muresan, I. Clitan	"Optimization of Residential Heating Systems Using Accumulators", 15th INTERNATIONAL CONFERENCE ON ENVIRONMENT AND ELECTRICAL ENGINEERING, Roma, Italia, 10-13 Iunie, 2015, pp. 2165-2170.	0,25	6
22	Clitan, Iulia; Abrudean, Mihail; Muresan, Vlad	"The control of an industrial manipulator's positioning system using Dahlin algorithm", 8th International Conference on Interdisciplinarity in Engineering (Inter-Eng) in Procedia Technology Volume: 19 Pages: 541-546 Published: 2015	0,25	3
23	Clitan, Iulia; Abrudean, Mihail; Muresan, Vlad; Sas Diana	"Optimizing the Casting Length of Single Diameter Steel Billets Based on Minimum Cost", 20th International Conference on System Theory, Control and Computing (ICSTCC), Sinaia, ROMANIA , OCT 13-15, 2016	0,25	4
24	Muresan, Vlad; Abrudean, Mihail; Unguresan, Mihaela-Ligia; Clitan, I , Colosi, T ,	"Modeling of the O-18 Isotope Separation Process", IEEE International Conference on Automation, Quality and Testing, Robotics (AQTR) , Cluj Napoca, ROMANIA , MAY 19-21, 2016	0,25	5
25	Muresan, Vlad; Abrudean, Mihail; Unguresan, Mihaela-Ligia; Clitan, I , Colosi, T	"Control of the O-18 Isotope Separation Process", 11th IEEE International Symposium on Applied Computational Intelligence and Informatics (SACI) , Timisoara, ROMANIA , MAY 12-14, 2016	0,25	5
26	Muresan, V; Clitan, I.; Moga, D; Moga, R; Cosovici, G; Stroia, N; Lungoci, C ; Mironiuc, Al; Neaga, F	"Modeling and Control of the Temperature for Cytostatic Solutions Used in Surgical Procedures", 3rd International Conference on Control, Decision and Information Technologies (CoDIT) , St Pauls Bay, MALTA, APR 06-08, 2016	0,25	9
27	Clitan I, Muresan V, Colosi T, Unguresaj ML,	"Control Structure Design for an O-18 Isotope Separation Column", PROCEEDING OF 2016 IEEE INTERNATIONAL CONFERENCE ON AUTOMATION, QUALITY AND TESTING, ROBOTICS (AQTR), Cluj Napoca, ROMANIA, Pages: 507-512 , 2016.	0,25	4
28	Muresan, V, Abrudean, M, Valean, H, Clitan, I , Unguresan, ML , Colosi, T, Puscasu, A , Fanca, A	"Temperature Modeling and Control in a Tunnel Heat-Treatment Furnace", Proceedings of 20th International Conference on System Theory Control and Computing, Pages: 245-250, 2016	0,25	8
29	Mihaela-Ligia Ungureșan, Vlad Mureșan, Mihail Abrudean, Honoriu Vălean, Iulia Clitan, Cristian Bondici, Adela Pușcașiu, Alexandra Fanca, Ovidiu Stan	"Advanced Control of a Hydroelectric Power Plant" , Proceedings of 21th International Conference on System Theory Control and Computing, Pages: 358-365 , 2017	0,25	9

30	Clitan, Iulia; Muresan, Vlad; Abrudean, Mihail; Sas Diana	"Automatic Determination of Optimal Length of Casting Steel Blocks in the Context of an Imprecise Manufacturing", 21st International Conference on Control Systems and Computer Science (CSCS), Univ Politehnica Bucharest, Bucharest, ROMANIA, 2017	0,25	4
31	Muresan, Vlad; Abrudean, Mihail; Valean, Honoriu; Clitan, I, Unguresan, ML, Colosi, T, Sas, D, Puscasiu, A, Fanca, A	"Pipes Temperature Control in an Annealing Furnace", 18th International Carpathian Control Conference (ICCC), ROMANIA, 2017	0,25	9
32	Clitan, I.; Muresan, V.; Abrudean, M., Clitan A.F., Miron R.	"Position control of an industrial robot using fractional order controller", 2016 INTERNATIONAL CONFERENCE ON ROBOTICS AND MACHINE VISION, Proceedings of SPIE Volume: 10253 Article Number: UNSP 102530E-1, 2017	0,25	5
33	Colosi, T.; Abrudean, M.; Muresan, V; Clitan, I, Sas, D, Unguresan, ML	"Extension of Mpxd matrix for 4th order partial differential equations with two independent variables", 21st IEEE International Conference on Automation, Quality and Testing, Robotics (AQTR THETA), Cluj Napoca, ROMANIA, 2018	0,25	6
34	Monica, Sas; Iulia, Clitan; Zoltan, Kovendi	"Numerical simulation of a wastewater neutralization system", 21st IEEE International Conference on Automation, Quality and Testing, Robotics (AQTR THETA) Location: Cluj Napoca, ROMANIA Date: MAY 24-26, 2018	0,25	3
35	Monica, Sas; Iulia, Clitan; Zoltan, Kovendi	"Modeling and simulation of a waste water neutralization system using (M-pdx) Method", 21st IEEE International Conference on Automation, Quality and Testing, Robotics (AQTR THETA), Cluj Napoca, ROMANIA, 2018	0,25	3
36	Muresan, V., Abrudean M., Valean H., Miclea L., Unguresan M.L., Clitan I., Puscasiu A., Fanca A.,	"Control of a Separation Column for O-18 Isotope Production", 22ND International Conference on System Theory Control and Computing (ICSTCC), Sinaia, ROMANIA, Pages: 182-187, 2018	0,25	8
37	T Colosi, D Sas, I Clitan, MM Dietrich, Z Kovendi, L Coroiu	"Extension of Mpxd Matrix for Upper Order Partial Differential Equations with Two Independent Variables and Approximating Solutions", 2019 15th International Conference on Engineering of Modern Electric Systems (EMES), Oadea, 2019, pp. 33-36.	0,25	6
38	I Clitan, Z Kovendi, V Muresan, M Abrudean, El Gergely	"Discrete Modeling and Control of an Industrial Robot used in a Metallurgical Process", 2019 15th International Conference on Engineering of Modern Electric Systems (EMES), Oadea, 2019, pp. 77-80.	0,25	5
39	I Clitan, V Muresan, M Abrudean, AF Clitan, H Valean, ML Unguresan	"Comparison of Continuous and Discrete PI Control on Clamp Positioning of an Industrial Robot", 2019 23rd International Conference on System Theory, Control and Computing, ICSTCC 2019 - Proceedings 8885852, pp. 49-54	0,25	6
40	Vlad Mureșan, Mihail Abrudean, Daniel Moga, Mihaela-Ligia Ungureșan, Iulia Clitan, Roxana Carmen Cordoș, Adrian Codoban, Mircea Cohuț, Marius Rareș Abrudan	"Temperature Modelling in an Industrial Furnace", 2020 IEEE International Conference on Automation, Quality and Testing, Robotics (AQTR), pp. 1-6.	0,25	9

41	I Clitan, T Colosi, ML Unguresan, A Codoban, MR Abrudan	"Deformable exponential functions. Case study on propagation phenomena", 2020 IEEE International Conference on Automation, Quality and Testing, Robotics (AQTR), pp. 1-6.	0,25	5
42	I Clitan, T Colosi, ML Unguresan, A Codoban, M Cohut	"Prospects of Algebraization of Deformable Exponential Functions Through Ordinary Differential Equations And Partial Differential Equations", 2020 IEEE International Conference on Automation, Quality and Testing, Robotics (AQTR), pp. 1-5.	0,25	5

#### A2.2. Articole in reviste si volumele unor manifestari stiintifice indexate in alte baze de date internationale (BDI)

Nr.	Autori	Titlu lucrare / revista (conferinta)	Baza de date	Nr. Autori
1	Iulia Clitan, Vlad Muresan, Mihail Abrudean and Andrei F. Clitan	"Distributed Heating System for Residential Homes" will be published in IJMO Vol. 11, No. 1, Feb. 2021.	Inspec	4
2	I Clitan, V Muresan, M Abrudean, AF Clitan	"Implementing Discrete Control for the Horizontal Positioning of an Industrial Manipulator Using MATLAB", International Journal of Modeling and Optimization, vol .10, no.2, 2020.	Inspec	4
3	V Mureșan, M Abrudean, ML Ungureșan, I Clitan, V Sita, T Coloși	"Intelligent Temperature Control in an Industrial Furnace", Proceedings of the 2020 12th International Conference on Computer and Automation Engineering, pp. 210-218	scopus	6
4	I Clitan, V Muresan, M Abrudean, VI Sita	"Discrete Model for the Movement of Industrial Manipulator Used in Hot Rolling Process", International Journal of Modeling and Optimization, vol. 9, no. 6, 2019.	Inspec	4
5	V Mureșan, M Abrudean, I Clitan, ML Unguresan, RC Cordos, CLC Ote	"Advanced Control System for the Rotary Hearth Furnace Servicing System", 2019 23rd International Conference on System Theory, Control and Computing, ICSTCC 2019 - Proceedings 8885852, pp. 346-351	Scopus	6
6	Vlad Mureșan, Mihail Abrudean, Valentin Sita, Iulia Clitan, Mihaela-Ligia Ungureșan, Roxana Carmen Cordoș	"Modeling the Speed Dynamics of a Car", International Journal of Modeling and Optimization, vol. 9, no. 1, 2019.	Inspec	6
7	Valentin Sita, Vlad Mureșan, Mihail Abrudean, Mihaela-Ligia Ungureșan, Iulia Clitan	"18O Isotope Concentration Control", Proceedings of the 15th International Conference on Informatics in Control, Automation and Robotics - (Volume 1), pp. 369-379 , 2018.	Scopus	5
8	Vlad Mureșan, Iulia Clitan, Tiberiu Coloși, Mihail Abrudean, Mihaela-Ligia Ungureșan, and Andrei Clitan	"Numerical Simulation on Spatial Curves for Distributed Parameter Propagation Processes", International Journal of Modeling and Optimization, 8, No. 4, pp. 202 -207, 2018	Inspec	6
9	Vlad Muresan, Valentin Sita, Iulia Clitan, Adrian Barstan	Identification and Control of a Car Speed Dynamics Using Artificial Intelligence, Mining Intelligence and Knowledge Exploration. MIKE 2018. Lecture Notes in Computer Science, vol 11308, 2018	Scopus	4

<b>10</b>	D Sas, I Clitan, ML Unguresan, V Muresan	Analytical Modeling of an Isotope Separation Column by Second-Order Quasi-Linear Equations with Two Independent Variables, International Journal of Modeling and Optimization, vol. 7, no. 5, pp. 202-207 ,2017.	Inspec	4
<b>11</b>	Mihaela-Ligia Ungureșan, Vlad Mureșan, Mihail Abrudean, Iulia Clitan, Tiberiu Coloși	Advanced Temperature Control in a Heat-Treatment Furnace, Proceedings of the 4th International Conference on Control, Mechatronics and Automation, ACM International Conference Proceeding Series, pp. 140-146, 2016	Scopus	5
<b>12</b>	I. Clitan, C. Lungoci, V. Muresan, D. Moga, V. Sita	"A Robust Temperature Controller Design for an Innovative Hyperthermic Intraperitoneal Chemotherapy Equipment", 12th International Conference on Informatics in Control, Automation and Robotics (ICINCO), vol. 2, Colmar, Franța, 21 – 23 Iulie, 2015, pp. 84-91.	Scopus	5
<b>13</b>	H. Vaelean, M. Abrudean, M.L. Unguresan, I. Clitan, V. Muresan	"Modeling of distributed parameter processes with neural networks", in Applied Mechanics and Materials, vol. 555, pp. 530-540, 2014.	Scopus	5
<b>14</b>	I. Clitan, M. Abrudean, V. Muresan	"Design of neural network controllers for the horizontal positioning of an industrial manipulator", in Applied Mechanics and Materials, vol. 555, pp. 281-287, 2014.	Scopus	3
<b>15</b>	I. Clitan, V. Muresan, M. Abrudean, A. Clitan	"Discrete control for an industrial manipulator using both dahlin algorithm and internal model control design approaches", in Applied Mechanics and Materials, vol. 656, pp. 360-368, 2014.	Scopus	4
<b>16</b>	M.-L. Unguresan, V. Muresan, M. Abrudean, I. Clitan, T. Colosi	"Modeling and simulation of the gas absorption process in the liquid phase", in Applied Mechanics and Materials, vol. 656, pp. 81-94, 2014.	Scopus	5
<b>17</b>	V. Muresan, A. Groza, B. Iancu, I. Clitan	"Simulation and control of the vehicles movement in the case of the overtaking procedures", in Applied Mechanics and Materials, vol. 656, pp. 423-431, 2014.	Scopus	4
<b>18</b>	Iulia Inoan, Mihail Abrudean	"Design of NARMA-L2 Neural controller for an Induction Motor's Speed Control.", in Journal of Computer Science & Control Systems, vol. 6, no. 2, pp. 18-21, 2013.	Inspec	2
<b>19</b>	I. Clitan, V. Muresan, M. Abrudean	"Design of a discrete controller using the Dahlin algorithm for a direct-current motor speed control", in Journal of Computer Science & Control Systems, vol. 7, no. 2, pp. 13-18, 2014.	Inspec	3
<b>20</b>	I. Inoan, D.C. Dumitrache, T. Szelitzky	"Parametric identification of a positioning system for a billets unloading machine", in IFAC Proceedings Volumes (IFAC-PapersOnline), vol. 14, no. PART 1, pp. 1722-1726, 2012.	Scopus	3
<b>21</b>	T. Szelitzky, I. Inoan, M. Tulbure, AO Neaga	"Complex Model of a Series Load Induction Heating Inverter", in Acta Technica Napocensis, Faculty of Electronics, Telecommunications and Information Technology, pp. 1221-	Inspec	4

22	I. Inoan, M. Abrudean	"Signal recovery from the time evolution graph using image processing techniques", in Automation Computers Applied Mathematics (ACAM), vol. 20, no. 3, 2011, pp. 185-190.	B+	2
23	D.C. Dumitrache, F.E. Cristian, I. Inoan	"Determination of the parasite heat received by a cryogenic distillation column during an isotope separation process", in Automation Computers Applied Mathematics (ACAM), vol. 20, no. 3, pp. 173-17, 2011.	B+	3

#### A2.4.1. Granturi/proiecte castigate prin competitie: director/responsabil de proiect

Nr.	Tip: nat / internat.	Denumire proiect	Perioada	
1	National	"Optimizarea lungimii barelor de oțel în funcție de procesul de programare a producției de material tubular și în relație cu procesul de producție din oțelarie", Proiecte Interne de Cercetare-Dezvoltare-Inovare ale Universității Tehnice din Cluj-Napoca, finanțare Tenaris Silcotub Zalău S.A.	2016-2017	1

#### A2.4.2. Granturi/proiecte castigate prin competitie: membru in echipa

Nr.	Tip: nat / internat.	Denumire proiect	Perioada	
1	National	Proiect de cercetare: "Cercetarea și dezvoltarea în domeniul automatizării și informaticii aplicate", terți Tenaris Silcotub Zalău, Director Prof. dr. ing. Mihail Abrudean, Durată proiect: 2009.	2009	1
2	National	Proiect de cercetare: "Laborator mobil de automatizare", terți Tenaris Silcotub Zalău, Director Prof. dr. ing. Mihail Abrudean, Durată proiect: 2009.	2009	1
3	National	"Dezvoltarea unui echipament pentru chimio-hipertermie prin paradigma cyber -physical systems, folosind tehnici avansate de modelare", Proiecte Interne de Cercetare-Dezvoltare-Inovare ale Universității Tehnice din Cluj-Napoca	2014-2015	1
4	National	"Platformă înglobată pentru controlul unui sistem de răcire termică solară adecvat aplicațiilor de răcire la scară mică/medie", Proiecte Interne de Cercetare-Dezvoltare-Inovare ale Universității Tehnice din Cluj-Napoca	2014-2015	1
5	National	"Simularea curbei de revenire (proces metalografic", Proiecte Interne de Cercetare-Dezvoltare-Inovare ale Universității Tehnice din Cluj-Napoca, finanțare Tenaris Silcotub Zalău S.A.	2016-2017	1
6	National	"Dinamica transmiterii virusului SARS-CoV-2 pe teritoriul României", Proiect PN-III-P2-2.1-SOL-2020-0157, Instituție coordonatoare: UNIVERSITATEA TEHNICĂ DIN CLUJ - NAPOCA	2020-2021	1
7	National	„Oferte educaționale noi și flexibile în învățământul terțiar universitar și non-universitar tehnic conforme cu cerințele pieței muncii în schimbare”, Cod SMIS proiect: POCU/320/6/21/122333, Beneficiar: Universitatea Tehnică de Construcții București,	2019-2020	1

#### A3.1.1. Citari in carti, reviste si volume ale unor manifestari stiintifice (carti, ISI)

Nr.	Articol citat	Articol care citeaza		
1	I. Inoan, "Movement control of an unloading machine from a rotary	Muresan V., Abrudean M., Unguresan M.L., Colosi T., "Feed-forward control of a residual water blunting process", in Control Engineering and Applied Informatics, vol. 16 (4), 2014, pp. 42-51.	1	8,00

2	furnace", in 2010 IEEE International Conference on Automation, Quality and Testing, Robotics, AQTR 2010 - Proceedings, vol. 1, pp. 131-134, 2010.	Colosi T., Abrudean M., Unguresan M.L., Muresan V., "Analogical modeling and numerical simulation variant for distributed parameter processes, with applications in isotope separations, chemistry and thermo-energetics", in Proceedings of International Conference on Automation, Quality and Testing, Robotics, 2014, pp 1-10.	1	8,00
3		Muresan V., Abrudean M., Unguresan M.L., Colosi T., "Cascade control of a residual water blunting system", in Advances in Electrical and Computer Engineering, vol. 14 (2), 2014, pp.135-144.	1	8,00
4		Unguresan M.L., Muresan V., Colosi T., "Control system for a distributed parameter processes, with applications in isotope separation domain: Case study", in Proceedings of International Conference on Automation, Quality and Testing, Robotics, 2014, pp. 1-6.	1	8,00
5		Muresan V., Abrudean M., Colosi T., Secara M., "Convergent control of the residual water blunting system used in metallurgy", in 17th International Conference System Theory, Control and Computing (ICSTCC), 2013, pp. 368-373.	1	8,00
6		Rusu, Cristian-Bogdan; Lungoci, Corneliu; Moga, Daniel; et al., "Modelling a Temperature Calibration System for Medical Probes", Conference: 21st International Conference on Control Systems and Computer Science (CSCS) Location: Univ Politehnica Bucharest, Bucharest, ROMANIA Date: MAY 29-31, 2017	1	8,00
7		Muresan V., Abrudean M., "Automatic control of the driving of loading-unloading machines used for servicing a rotary hearth furnace", in Applied Mechanics and Materials, vol. 436, 2013, pp.406-416.	1	8,00
8	D.C Dumitrache, I. Inoan, B. De Schutter, An analytic model for a C13 isotope separation process by cryogenic distillation,	Rusu, Cristian-Bogdan; Lungoci, Corneliu; Moga, Daniel; et al., "Modelling a Temperature Calibration System for Medical Probes", 2017 21ST INTERNATIONAL CONFERENCE ON CONTROL SYSTEMS AND COMPUTER SCIENCE (CSCS) Pages: 26-33 Published: 2017	3	2,67
9	Journal of Process Control 24 (5), 463-474, 2014	Monica, Sas Diana; Zoltan, Kovendi; Laura, Coroiu; et al., "Modeling and Simulation of a Carbon C-13 Separation Process by low temperature Distillation", 2017 14TH INTERNATIONAL CONFERENCE ON ENGINEERING OF MODERN ELECTRIC SYSTEMS (EMES) Pages: 208-211 Published: 2017	3	2,67
10		Boda, A.; Arora, S. K.; Deb, A. K. Singha; et al., "Molecular modeling guided isotope separation of gadolinium with strong cation exchange resin using displacement chromatography", SEPARATION SCIENCE AND TECHNOLOGY Volume: 52 Issue: 14 Pages: 2300-2307 Published: 2017	3	2,67
11		Abrudean Mihail Ioan ; Mihaela-Ligia Ungureșan ; Helga Silaghi ; Vlad Mureșan ; Adrian Codoban , "Experimental Identification of the 13C Isotope Separation Process by Cryogenic Distillation on a Two-Column Separation Cascade", 2019 15th International Conference on Engineering of Modern Electric Systems (EMES), Oradea, Romania, pp. 1-6. -	3	2,67



12	Mihaela-Ligia Ungureșan, Vlad Mureșan, Mihail Abrudean, Honoriu Vălean, Iulia Clitan, Cristian Bondici, Adela Pușcașiu, Alexandra Fanca, Ovidiu Stan, "Advanced Control of a Hydroelectric Power Plant" , Proceedings of 21th International Conference on System Theory Control and Computing, Pp. 58-365 , 2017	Zhukov, V. V.; Pugachev, R. V.; Nyaware, B. O., Energy Complexes Consisting of Hydro and Nuclear Power Plants with Low Power Nuclear Reactors, 2018 INTERNATIONAL URAL CONFERENCE ON GREEN ENERGY (URALCON) , Pages: 161-166 , 2018	9	0,89
13	T. Szelitzky, I. Inoan, D. Dumitrache, "Advantages of Robust Control for Series Load	Parastvand H., Khosrowjerdi M.J, "A new data-driven approach to robust PID controller synthesis", in Control Engineering and Applied Informatics, vol. 16 (3), 2014, pp. 84-93.	3	2,67
14	Frequency Controlled Induction Heating Inverters", in Control Engineering and Applied Informatics, vol. 13 (1), pp. 62-68, 2011.	Paul, Arun Kumar, Robust Control by SOSM Facilitates Optimizing Under Actuated Induction Cap Sealing Process, IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS Volume: 64 Issue: 6 Pages: 4511-4519 Published: JUN 2017 [8]	3	5,33
15	I. Inoan, A. Clitan, "A classic controller design for a billet's unloading machine using the IMC approach", in Procedia Technology, vol. 12, pp. 28-33, 2014.	Adriana-Maria Minu, Ioana Monica Sas-Boca, Ionu Marian, Dana-Adriana Ilutiu-Varvara, Liviu Nistor, "The Influence of Process Parameters on Non-Conventional Technology in Drawing Cassette Roller Die", 9th International Conference Interdisciplinarity in Engineering, INTER-ENG 2015, 8-9 October 2015, Tirgu-Mures, Romania, Procedia Technology 22 (2016 ), pp. 28 – 33 .	2	4,00
16		Rusu, Cristian-Bogdan; Lungoci, Corneliu; Moga, Daniel; et al., "Modelling a Temperature Calibration System for Medical Probes", Conference: 21st International Conference on Control Systems and Computer Science (CSCS) Location: Univ Politehnica Bucharest, Bucharest, ROMANIA Date: MAY 29-31, 2017	2	4,00
17	I. Inoan, M. Abrudean, "Control of an Induction Motor Using the Relay Method	W Huang, Y Yuan, Y Chang, "A novel soft start method based on auto-transformer and magnetic control", IEEE International Conference on Industrial Technology (ICET) (2016), pp. 2108-2113.	2	4,00
18	Approach", in CONTROL ENGINEERING AND APPLIED INFORMATICS, vol. 16, no. 3, pp. 13-22, 2014.	Saleem, Omer; Mahmood-UI-Hasan, Khalid, "Adaptive collaborative speed control of PMDC motor using hyperbolic secant functions and particle swarm optimization", TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES Volume: 26 Issue: 3 Pages: 1612-1622 Published: 2018	2	4,00
19		Tajeddini, Mohammad Amin; Aalipour, Ali; Safarinejadian, Behrouz, "Decision Fusion Method for Bearing Faults Classification Based on Wavelet Denoising and Dempster-Shafer Theory", IRANIAN JOURNAL OF SCIENCE AND TECHNOLOGY-TRANSACTIONS OF ELECTRICAL ENGINEERING, Vol. 43 Issue: 2 Pages: 295-305 Published: JUN 2019	2	4,00

20	I. Clitan, I. Muntean, "Internal Model Control for a Hydraulically Driven Robotic Arm", in 2014 IEEE INTERNATIONAL CONFERENCE ON AUTOMATION, QUALITY AND TESTING, ROBOTICS, 2014.	ZF He, L Zhao, "Quadrotor trajectory tracking based on quasi-LPV system and internal model control", Mathematical Problems in Engineering, Article 857291 (2015).	2	4,00
21	I Inoan, DC Dumitrache, M Abrudean, "Unloading arm movement modeling using neural networks for a rotary hearth furnace", Scientific Bulletin of the "Petru Maior" University of Targu Mures 8 (2), 44	Rusu, Cristian-Bogdan; Lungoci, Corneliu; Moga, Daniel; et al., "Modelling a Temperature Calibration System for Medical Probes", Conference: 21st International Conference on Control Systems and Computer Science (CSCS) Location: Univ Politehnica Bucharest, Bucharest, ROMANIA Date: MAY 29-31, 2017	3	2,67
22	C. Lungoci, V. Muresan, D. Moga, I. Clitan, R. Moga, V. Sita, T. Oniu and I.A. Mironiuc, "Advanced temperature control for innovative HIPEC equipment", in Procedia Computer Science, vol. 64, 2015, pp. 497-505	Ladhari, Taoufik; Szafnicki, Konrad, "Modelling of some aspects of a biomedical process: application to the treatment of digestive cancer (HIPEC)", 3 BIOTECH Volume: 8 Issue: 4 Article Number: 190 Published: MAR 20 2018	8	1,00
23	Vlad Mureșan, Mihail Abrudean, Tiberiu Coloși, Zoltan Kovendi, Mihaela-Ligia Ungureșan, Iulia Clitan, "Modeling and Simulation of the Carbone Dioxide Absorption Process in Ethanolamine Solution", The 20th International Conference on Control Systems and Computer Science (CSCS20), 27 –29 Mai, 2015, București, România, vol. 1, pag. 112 - 118	Vasilevich, Balakin Alexey; Sergeevich, Bogdanov Dmitriy; Nikolaevich, Dyadik Alexander, "TECHNOLOGY FOR CREATING CONTROL SYSTEM PURIFICATION UNIT AIRINDEPENDENT POWER PLANT USING SIMULATION MODELING COMPLEX", in MARINE INTELLECTUAL TECHNOLOGIES Volume: 2 Issue: 4 Pages: 52-56 Published: 2015	6	1,33

24	I. Inoan, M. Abrudean, "Design of NARMA-L2 Neural controller for an Induction Motor's Speed Control.", in	Gilev, Bogdan, "Modeling the Vehicle Traction System and Developed Neural Predictive Controller", International Conference on High Technology for Sustainable Development (HiTech) Location: Natl Sci & Tech Ctr, Sofia, BULGARIA Date: JUN 11-14, 2018	2	4,00
25	Journal of Computer Science & Control Systems, vol. 6, no. 2, pp. 18-21, 2013.	R Celikel, O Aydogmus, "NARMA-L2 Controller for Single Link Manipulator", 2018 International Conference on Artificial Intelligence and Data Processing (IDAP), Inonu Univ, Malatya, TURKEY, 2018.	2	4,00
26		Kanchev, Hristiyan; Hinov, Nikolay; Gilev, Bogdan; et al., "Modelling and Control by Neural Network of Electric Vehicle Traction System",ELEKTRONIKA IR ELEKTROTECHNIKA Volume: 24 Issue: 3 Pages: 23-28 Published: 2018	2	4,00
27		R Paul, S Chokkadi,"Implementation of NARMA-L2 Controller for Shell and Tube Heat Exchanger Temperature Process", Industrial & Engineering Chemistry Research 55 (2016) Issue: 19, pp. 5644-5653. [8]	2	4,00
28	Z Kovendi, V Mureşan, M Abrudean, I Clitan, ML Ungureşan, T Coloşi, "Modeling a Chemical Exchange Process for the 13C Isotope Enrichment", Applied Mechanics and Materials 772, 27-32, 2015	Monica, Sas Diana; Zoltan, Kovendi; Laura, Coroiu; et al., Modeling and Simulation of a Carbon C-13 Separation Process by low temperature Distillation, 2017 14TH INTERNATIONAL CONFERENCE ON ENGINEERING OF MODERN ELECTRIC SYSTEMS (EMES) Pages: 208-211 Published: 2017	6	1,33
29	I Clitan, V Muresan, T Colosi, ML Unguresan, "Control Structure Design for an O-18 Isotope Separation Column", IEEE International Conference on Automation Quality and Testing Robotics Pg: 507-512, 2016	Monica, Sas Diana; Zoltan, Kovendi; Laura, Coroiu; et al., Modeling and Simulation of a Carbon C-13 Separation Process by low temperature Distillation, 2017 14TH INTERNATIONAL CONFERENCE ON ENGINEERING OF MODERN ELECTRIC SYSTEMS (EMES) Pages: 208-211 Published: 2017	4	2,00
30	ML Ungureşan, V Mureşan, M Abrudean, I Clitan, T Coloşi, "Modeling and simulation of the gas absorption process in the liquid phase", Applied Mechanics and Materials 656, pg. 81-94, 2014	Tiberiu Coloşi ; Mihail Abrudean ; Mihaela-Ligia Ungureşan ; Vlad Mureşan , Applications of (Mpdx) method in the numerical simulation of distributed and lumped parameter processes, for isotopic separation columns, Proceedings of 2016 IEEE International Conference on Automation, Quality and Testing, Robotics (AQTR), pp. 519-523 .	5	1,60

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32	T. Coloși, M. Abrudean, V. Mureșan, I. Clitan, D. Sas and M.-L. Ungureșan, "Extension of M pdx Matrix for 4th Order Partial Diferential Equations with Two Independent Variables ", International Conference on Automation Quality and Testing Robotics AQTR 2018	Abrudean Mihail Ioan ; Mihaela-Ligia Ungureșan ; Helga Silaghi ; Vlad Mureșan ; Adrian Codoban , "Experimental Identification of the 13C Isotope Separation Process by Cryogenic Distillation on a Two-Column Separation Cascade", 2019 15th International Conference on Engineering of Modern Electric Systems (EMES), Oradea, Romania, pp. 1-6.	6	1,33
33	S Sfechiș, M Abrudean, DM Sas, ML Ungureșan, I Clitan, V Mureșan, "Modeling and Simulation of the Sulfur Dioxide Adsorption Process in Natural Zeolites", Applied Mechanics and Materials 811, 35-42	MA Hanif, N Ibrahim, A Abdul Jalil , "Sulfur dioxide removal: An overview of regenerative flue gas desulfurization and factors affecting desulfurization capacity and sorbent regeneration", Environmental Science and Pollution Research volume 27, pages 27515–27540 (2020).	6	1,33
34	I. Clitan, I. Muntean, "Internal Model Control for a Hydraulically Driven Robotic Arm", in 2014 IEEE INTERNATIONAL CONFERENCE ON AUTOMATION, QUALITY AND TESTING, ROBOTICS, 2014.	Yuan Wang, Xiangming Zheng, Hongda Li, Xiaoran Li, "An internal model control-cascade Proportion-Integration-Differentiation method for manipulation of nano-quad-rotors", Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, Volume: 233 issue: 8, page(s): 2948-2955 2019	2	4,00

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### A3.1.2. Citari in carti, reviste si volume ale unor manifestari stiintifice (BDI)

Nr.	Articol citat	Articol care citeaza	Numar autori art.citat	Punctaj
1	Iulia Inoan, Andrei Clitan, "A classic controller design for a billet's unloading machine using the IMC approach", in 7TH INTERNATIONAL CONFERENCE INTERDISCIPLINARITY IN ENGINEERING (INTER-ENG 2013), vol. 12, pp. 28-33, 2014.	Mircea DULĂU, Geza NAGY, Alex TĂTAR, "EXPERIMENTS OF PNEUMATIC LINEAR POSITIONING WITH CONVENTIONAL CONTROL SYSTEM", Scientific Bulletin of the „Petru Maior” University of Tîrgu Mureș, Vol. 12 (XXIX) no. 1, 2015.	2	2
2	D.C Dumitrache, I. Inoan, B. De Schutter, An analytic model for a C13 isotope separation process by cryogenic distillation, Journal of Process Control 24 (5), 463-474	SAS Diana Monica, KOVENDI Zoltan, GERGELY Eugen Ioan, HUSI Geza, COROIU Laura, "Preliminaries in Carbon 13C Separation Process by Low Temperature Distillation", Journal of Electrical and Electronics Engineering. 2017;10(1):63-66	3	1,3333333
4	I. Inoan, "Movement control of an unloading machine from a rotary furnace", in 2010 IEEE International Conference on Automation, Quality and Testing, Robotics, AQTR 2010 - Proceedings, vol. 1, pp. 131-134, 2010.	NM Roman, HA Colosi, DC Colosi, V Mureșan, "Approximation Method of the Temperature Propagation Parameters in Biological Media", International Conference on Advancements of Medicine and Health Care through Technology, 2014, pp. 219-222.	1	4

5		V. Mureșan, N. M. Roman, T. Coloși, M. Abrudean, O. P. Stan, O. Bunta, "Numerical Simulation of the Temperature Propagation in Superposed Biological Media, with Applications in Dental Treatment".6th International Conference on Advancements of Medicine and Health Care through Technology; 17–20 October 2018, Cluj-Napoca, Romania pp 123-130, IFMBE Proceedings book series (IFMBE, volume 71). First Online: 17 May 2019	1	4
6	I. Inoan, M. Abrudean, "Design of NARMA-L2 Neural controller for an Induction Motor's Speed Control.", in Journal of Computer Science & Control Systems, vol. 6, no. 2, pp. 18-21, 2013.	R. CELIKEL, "Speed Control of BLDC Using NARMA-L2 Controller in Single Link Manipulator", BALKAN JOURNAL OF ELECTRICAL & COMPUTER ENGINEERING, Vol. 7, No. 2, April 2019.	2	2
7		A Akbarimajd, "NARMA-L2 Controller for Series Elastic Based Body Weight Support System", 2019 International Conference on Biomedical Innovations and Applications (BIA), 8-9 Nov. 2019 , Varna, Bulgaria, Bulgaria .	2	2
8	T. Szelitzky, I. Inoan, D. Dumitrache, "Advantages of Robust Control for Series Load Frequency Controlled Induction Heating Inverters", in Control Engineering and Applied Informatics, vol. 13 (1), pp. 62-68, 2011.	G Stefanov, "Резонантен преобразувач за индукционно загrevање на метали со подобрување на коефициентот на полезно дејство" (2014) eprints.ugd.edu.mk	3	1,3333333
9	I Clitan, V Muresan, T Colosi, ML Unguresan, "Control Structure Design for an O-18 Isotope Separation Column", IEEE International Conference on Automation Quality and Testing Robotics Pg: 507-512, 2016	SAS Diana Monica, KOVENDI Zoltan, GERGELY Eugen Ioan, HUSI Geza, COROIU Laura, "Preliminaries in Carbon 13C Separation Process by Low Temperature Distillation", Journal of Electrical and Electronics Engineering. 2017;10(1):63-66	4	1

10		Bunta Olimpia,Vlad Muresan,and Tiberiu Colosi, "Upper Central Incisor Orthodontic Movement Approximation through Mathematical Simulation Programs", International Journal of Modeling and Optimization, Vol. 8, No. 6, December 2018	4	1
11	Z Kovendi, V Mureșan, M Abrudean, I Clitan, ML Ungureșan, T Coloși, "Modeling a Chemical Exchange Process for the 13C Isotope Enrichment", Applied Mechanics and Materials 772, 27-32, 2015	SAS Diana Monica, KOVENDI Zoltan, GERGELY Eugen Ioan, HUSI Geza, COROIU Laura, "Preliminaries in Carbon 13C Separation Process by Low Temperature Distillation", Journal of Electrical and Electronics Engineering. 2017;10(1):63-66	6	0,6666667
12	I. Clitan, I. Muntean, "Internal Model Control for a Hydraulically Driven Robotic Arm", in 2014 IEEE INTERNATIONAL CONFERENCE ON AUTOMATION, QUALITY AND TESTING, ROBOTICS, 2014.	Yasser Bouzid. Guidance and control system for autonomous aerial vehicles navigation. Thesis. Automatic.Université Paris-Saclay, 2018. English. NNT: 2018SACLE014 .	2	2
14	Vlad Mureșan, Mihail Abrudean, Honoriu Vălean, Iulia Clitan, Mihaela-Ligia Ungureșan, Tiberiu Colosi, Adela Pușcașiu, Alexandra Fanca, "Temperature modeling and control in a tunnel heat-treatment furnace", 2016 20th International Conference on System Theory, Control and Computing (ICSTCC), pp. 245-250, 2016	Marco PILATASIG, Galo,CHACON, Víctor TAPIA, Franklin SILVA, Andrés ACURIO, "Airflow station controlled by PID and fuzzy controllers using a low cost card for didactic uses in controllers' evaluation", Proceedings of The 9th International Multi-Conference on Complexity, Informatics and Cybernetics (IMCIC 2018), pp. 72-76.	8	0,5
15		A Budianto, WS Pambudi, S Sumari, A Yulianto, "PID Control Design for Biofuel Furnace using Arduino", TELKOMNIKA, Vol.16, No.6, December 2018, pp.3016~3023	8	0,5

16	T. SZELITZKY, I. INOAN, M. TULBURE, A.O. NEAGA, "COMPLEX MODEL OF A SERIES LOAD INDUCTION HEATING INVERTER ", ACTA TECHNICA NAPOCENSIS, Volume 52, Number 1, 2011 .	Azzedine Khati, Abdelkader Kansab, Rachid Taleb, Houari Khoudmi, "Current predictive controller for high frequencyresonant inverter in induction heating", International Journal of Electrical and Computer Engineering (IJECE)Vol.10, No.1, February 2020, pp. 255~264	4	1
17	Kovendi Zoltan, Vlad Mureşan, Mihail Abrudean, Iulia Clitan, Mihaela Ligia Ungureşan, and Tiberiu Coloşi. "Modeling a Chemical Exchange Process for the 13C Isotope Enrichment." Applied Mechanics and Materials 772 (July 2015): 27-32.	Bunta Olimpia,Vlad Muresan,and Tiberiu Colosi, "Upper Central Incisor Orthodontic Movement Approximation through Mathematical Simulation Programs", International Journal of Modeling and Optimization, Vol. 8, No. 6, December 2018	6	0,6666667
18	DC Dumitrache, FE Cristian, I Inoan, "A fractional order adaptive controller for a 13C cryogenic isotope separation plant", Proceedings of 2012 IEEE International Conference on Automation, Quality and Testing, Robotics, Pagine 140-143, 2012.	Yassine Bensafia ,Samir Ladaci, Khatir Khettab, Ahmed Chemori, "Fractional order model reference adaptive control for SCARA robot trajectory tracking ", International Journal of Industrial and Systems Engineering, vol 30 (2), 2018.	3	1,3333333



RAPORT\_IND\_TOTAL\_Y - Raport indiv. total echiv. A

Anul: 2015

Vezi rezultate

Descarca rezultate in: Foaie de calcul Excel CSV fisier text Fisier XML (1 kb)


Vezi toate

Primul 1-1 of 1 Ultimul

	Nume, Prenume	Departament	An	TOTAL_CERCETARE	TOTAL_DIDACTIC	Total
1	Inoan,Iulia	Dep. Automatica	2015	3.70718	0.99000	4.69718

## RAPORT\_IND\_TOTAL\_Y - Raport indiv. total echiv. A

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Anul:  

Vezi rezultate

Descarca rezultate în: [Foaie de calcul Excel](#) [CSV fisier text](#) [Fisier XML](#) (1 kb)


Vezi toate

Primul  1-1 of 1  Ultimul

	Nume, Prenume	Departament	An	TOTAL_CERCETARE	TOTAL_DIDACTIC	Total
1	Inoan, Iulia	Dep. Automatica	2016	5.05572	0.00000	5.05572

**RAPORT\_IND\_TOTAL\_Y - Raport indiv. total echiv. A**


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Anul:  

Vezi rezultate

Descarca rezultate în: [Foaie de calcul Excel](#) [CSV fisier text](#) [Fisier XML](#) (1 kb)

Vezi toate

Primul  1-1 of 1  Ultimul

	Nume, Prenume	Departament	An	TOTAL_CERCETARE	TOTAL_DIDACTIC	Total
1	Inoan, Iulia	Dep. Automatica	2017	7.04704	0.00000	7.04704

## FIȘA LABORATORULUI

### Activități didactice

<b>Laborator de Electronică și electrotehnică</b> (Sala/suprafață; adresa) E6, S = 24,94 m <sup>2</sup> , Alba Iulia, Str. Alexandru Ioan Cuza, nr. 23 (Numar locuri) 20		
Echipament	Descriere echipament	Anul achizitiei
Proiector multimedia CANON LV-S 300	Tehnologie display : DLP reflectiva cu cip; Luminozitate: 3000 Lumeni	2016
Ecran de proiectie	2,03 x 2 m <sup>2</sup>	2016
Platforme electronice didactice	Platforme didactice pentru studiu: măsurarea componentelor, diode, tranzistoare, tiristoare, redresoare, amplificatoare de c.c. și c.a., oscilatoare, porți logice cu circuite discrete și integrate, numărătoare, registre de deplasare, relee electronice.	1972
Aparatură de măsură	Voltmetre și ampermetre digitale (Multimetrix DMM 220, 240), osciloscoape (Hameg HM504).	2008-2015
Aparate de control	Surse de tensiune continuă stabilizate ((Hameg HM7042-5)), generatoare de semnale sinusoidale.	2008-2015
Cabluri test	Cabluri test cu banană – mufe tată-tată pentru aplicații de laborator	2015

Responsabil disciplină Electronică  
S.I.dr.ing. Iulia Clitan

### Poze laborator



Fig. 1 Platforme electronice didactice

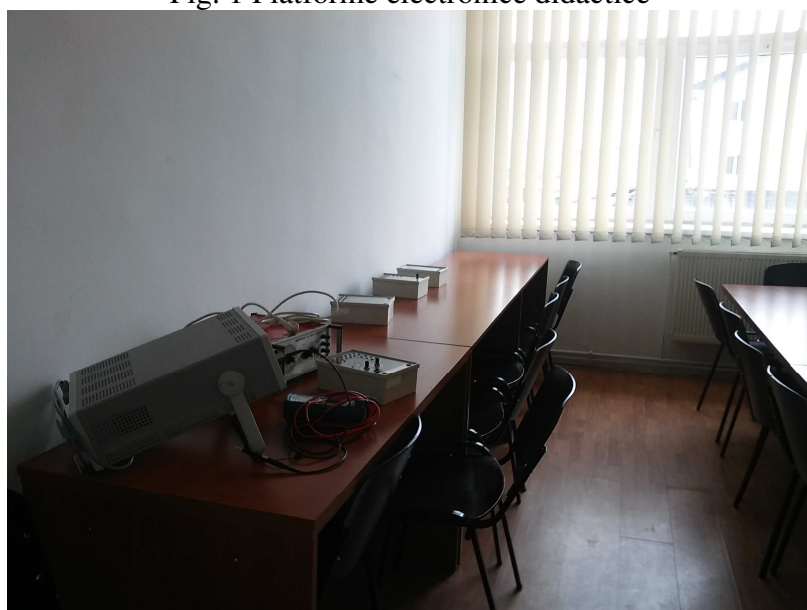
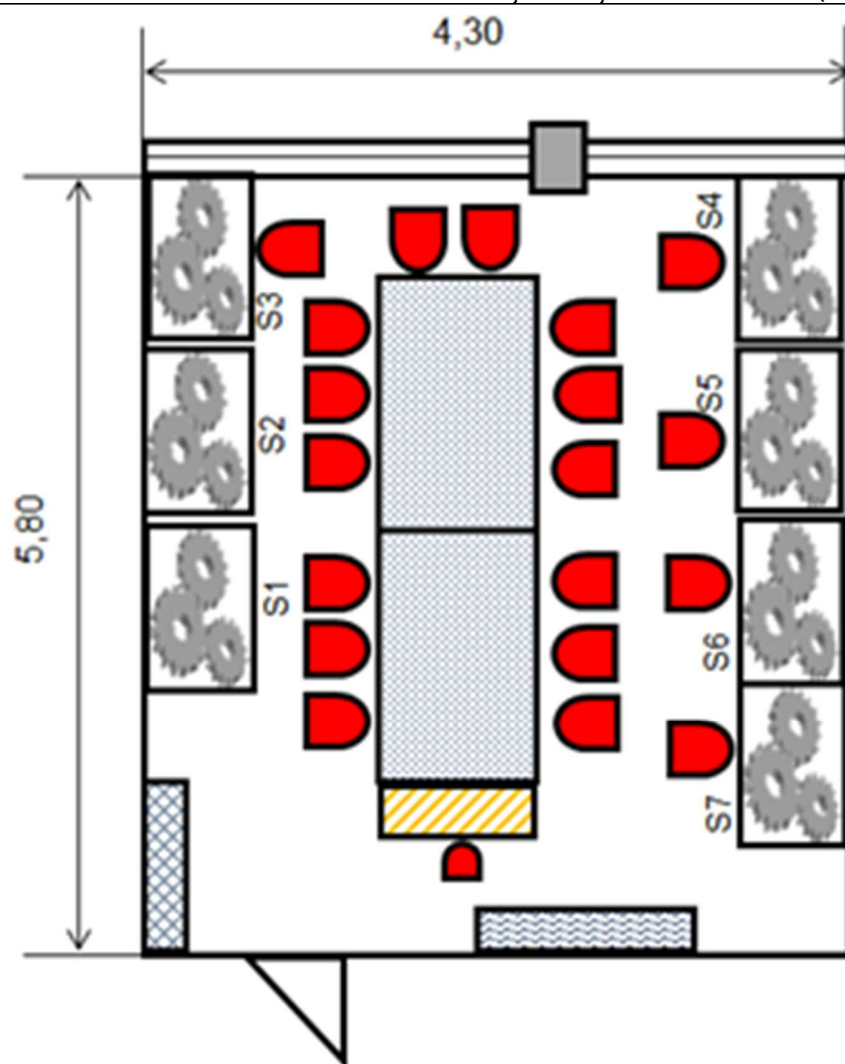


Fig. 2 Poză laborator

**SALA E6** – Electronică, electrotehnică și mașini electrice ( $S = 24,94 \text{ m}^2$ )**Legendă:**

Simbol grafic	Descriere	Dimensiuni L x l, [m]	Nr buc
	Masă de scris pentru studenți	1,80 x 1,00	2
	Masă pentru standuri	1,30 x 0,65	7
	Masă pentru calculator, cu tăblie pentru tastatură	0,90 x 0,5	-
	Masă profesorală (catedră)	1,0 x 0,5	1
	Tablă albă	2,20 x 1,20	1
	Cuier	0,90 x 1,20	1
	Scaun		20
	Chiuveta		-
	Echipamente de laborator		-

**UNIVERSITATEA TEHNICĂ**  
DIN CLUJ-NAPOCA

Facultatea de Automatica și Calculatoare  
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Tel.: 0264-401220, Fax: 0264-599893  
Web page: <http://aut.utcluj.ro>

Rector,  
Prof.dr.ing. Aurel VLAICU

Către,  
Conducerea UTC-N

Prin prezenta, vă rugăm să aprobați comisiile de finalizare a studiilor în domeniul „Ingineria sistemelor”, pentru anul universitar 2014-2015:

**A. Specializarea “Automatică și Informatică Aplicată”** - examene de diplomă (an IV, restante an V), sesiunea februarie 2015:

**Cluj-Napoca (română și engleză), Satu-Mare**

- Comisia 1L:**
1. Prof.dr.ing. **Adina Aștilean** – președinte
  2. Prof.dr.ing. Eva Dulf – membru
  3. Conf.dr.ing. Zsofia Lendek – membru
  4. Ș.l. dr.ing. Ruben Crișan – membru
  5. Ș.l. dr. ing. Roxana Both - membru
- Secretar: As.dr.ing. Radu Dan

**B. Specializarea “Automatică și Informatică Aplicată”** - examene de diplomă (an IV, restante an V), sesiunea iulie 2015:

**B1. Cluj-Napoca (română și engleză)**

- Comisia 1L:**
1. Prof.dr.ing. **Mihail Abrudean** – președinte
  2. Prof.dr.ing. Adina Aștilean – membru
  3. Prof.dr.ing. Clement Feștilă – membru
  4. Conf.dr.ing. Silviu Folea – membru
  5. S.l.dr.ing. George Moiş - membru
- Secretar: As.dr.ing. Iulia Inoan

- Comisia 2L:**
1. Prof.dr.ing. **Honoriu Vălean** – președinte
  2. Prof.dr.ing. Petru Dobra – membru
  3. Conf.dr.ing. Enyedi Szilard – membru
  4. Conf. dr. ing. Vlad Muresan - membru
  5. Ș.l.dr.ing. Cosmin Marcu – membru
- Secretar: As.drd.ing. Laura Vegh

- Comisia 3L:**
1. Prof.dr.ing. **Tiberiu Leția** – președinte
  2. Prof.dr.ing. Liviu Miclea – membru
  3. Prof.dr.ing. Ioan Nașcu – membru
  4. Prof.dr.ing. Daniel Moga - membru
  5. S.l.dr.ing. Ovidiu Stan – membru
- Secretar: As.dr.ing. Maria Santa


**B2. Satu Mare**
**Comisia 4L:  
(Satu-Mare)**

1. Prof.dr.ing. **Daniel Moga** – președinte
  2. Prof.dr.ing. Eva Dulf - membru
  3. Conf.dr.ing. Vlad Mureșan – membru
  4. Șl.dr. ing. Roxana Both - membru
  5. Șl.dr.ing. Mihai Hulea - membru
- Secretar: Șl.dr.ing. Ruben Crișan

C. Specializarea “**Automatică și Informatică Aplicată**” - examene de licență (an IV, restante an V), sesiunea septembrie 2015:

**Cluj-Napoca (română și engleză), Satu-Mare**
**Comisia 1L:**

1. Prof.dr.ing. **Mihail Abrudean** – președinte
  2. Prof.dr.ing. Eva Dulf – membru
  3. Conf.dr.ing. Vlad Muresan – membru
  4. Șl.dr.ing. Cristina Mureșan - membru
  5. Șl. dr. ing. Roxana Both - membru
- Secretar: As.dr.ing. Iulia Inoan

D. Secțiile de master cu specializările “**Controlul avansat al proceselor**”, “**Informatică aplicată în ingineria sistemelor complexe**”, “**Ingineria conducerii avansate a fabricației**” “**Informatică aplicată**”, – examene de disertație, sesiunea februarie 2015:

**Comisia: 1M**

1. Prof.dr.ing. **Tiberiu Leția** – președinte
  2. Prof.dr. Ing. Mihail Abrudean - membru
  3. Prof.dr.ing. Petru Dobra – membru
  4. Conf.dr.ing. Szilard Enyedi – membru
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# Optimization of the Number of Steel Billets that Need to Be Casted in a Charge Using Simplex Method

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**Keywords:** simplex, linear programming, optimization function, casting process, maximum profit, scheduling of batches.

**Abstract.** During the metallurgical process, per each charge, the raw material is continuous casted in order to obtain billets. The main goal of this article is to optimize the number of casted billets per charge using Linear Programming's algorithm called Simplex. The maximisation of the number of casted billets regard to available lengths and weights has been implemented in Matlab environment. Using Simplex Method, the maximum number of casted pieces per charge and the number of billets for each length were achieved in order to obtain good performances, and minimum liquid steel waste.

## Introduction

As slow processes, the metallurgical processes have dead time and large time constants, are complex and nonlinear. The pipes are the most significant product of metallurgical industry and are used in many fields of industry such natural gas extraction or oil extraction industry. As it is described in literature, [1-3] the principal steps of a metallurgical process are the primary steelmaking, the secondary steelmaking, continuous casting and the processing of final product, in detailed mentioned in the following figure:

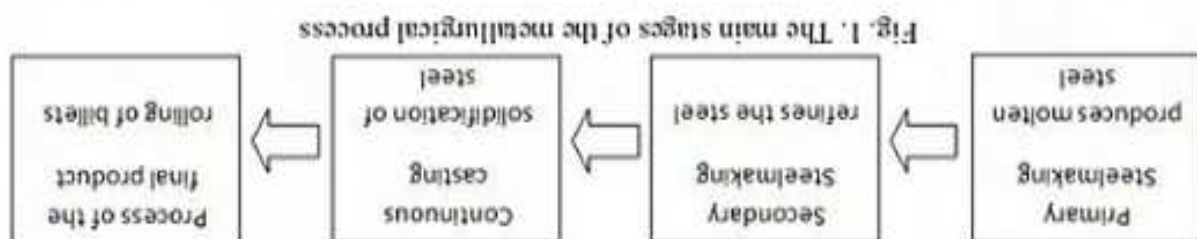


Fig. 1. The main stages of the metallurgical process

As it can be seen in the figure above, the main scope of primary steelmaking is to melt the iron and scrap metal in order to achieve an unrefined liquid steel, meanwhile the main scope of secondary steelmaking is to refine the steel [1-3]. The second step of the process uses an electric arc furnace. The steel solidification is achieved during the third step of the process, more precisely during continuous casting process. The steel resulted from the second step is continuously cast through a distributor in a water-cooled copper form. During the third step, are obtained round bars called billets. The fourth step of the process, or the hot rolling process of round billets of carbon steel is used in Tenaris Silcotub Zalău Company so as to achieve seamless tube pipes [4-5]. As it is mention in literature [3,5] the rolling process uses as raw material the billets obtained from steel making plant in Calarasi. Also, it should be mentioned the fact that the aim of the rolling process is to change a larger cross section work piece in a small cross section final product, according to specifications of the client [3,5].