

UNIVERSITATEA “DUNĂREA DE JOS” DIN GALAȚI

Școala doctorală de INGINERIE

Domeniul de doctorat: INGINERIA SISTEMELOR

**FIȘA DE VERIFICARE
A ÎNDEPLINIRII STANDARDELOR MINIMALE
pentru ocupare posturi didactice și de cercetare**

I. DATE DESPRE CANDIDAT

NUME: **Barbu Marian**

CNP: **1780322170381**

Postul pentru care candidează: **Abilitare în Ingineria Sistemelor**

II. DATE PRIVIND ÎNDEPLINIREA CONDIȚIILOR MINIMALE

1. DOCTORAT

Doctor **în domeniul de doctorat Automatică** Confirmat prin O.M. **632 din 21.03.2007**

2. Îndeplinirea condițiilor pentru abilitare în domeniul Ingineria Sistemelor:

(1) Condiții minimale:

A1. Activitatea didactică / profesională. Minim prevăzut: 100 pct. Realizat: 180 pct.

A2. Activitatea de cercetare. Minim prevăzut: 500 pct. Realizat: 645.163 pct.

A3. Recunoașterea impactului activității. Minim prevăzut: 100 pct. Realizat: 289.296 pct.

Total (A). Minim prevăzut: 700 pct. Realizat: 1114.459 pct.

(2) Condiții minimale obligatorii pe subcategorii

A1.1.1 - A1.1.2 Carti si capitole în carti de specialitate. Minim prevăzut: 4. Realizat: 6.

A1.2.1-A1.2.2 Material didactic / Lucrari didactice. Minim prevăzut: 2. Realizat: 4.

A2.1 Articole in reviste cotate si in volumele unor manifestari stiintifice indexate ISI proceedings. Minim prevăzut: 12. Realizat: 20.

A2.4.1 Granturi/proiecte castigate prin competitie (Director/responsabil). Minim prevăzut: 2. Realizat: 4.

A3.1.1 - A3.1.2 Numar de citări în carti, reviste si volume ale unor manifestari stiintifice ISI sau BDI. Minim prevăzut: 20. Realizat: 99.

Factor de impact cumulat pentru publicatii. Minim prevăzut: 6. Realizat: 13.404.

Atașată este Fișa de calcul și de susținere a îndeplinirii standardelor minimale specifice domeniului. Factorul de impact al publicațiilor luat în calcul a fost cel existent în ISI Web of Science la momentul întocmirii fișei.

21.12.2015

Conf.dr.ing. Marian Barbu

Fișa de calcul și de susținere a îndeplinirii standardelor minime specifice domeniului
[Conferențiar - OMECTS 6560 / 20.12.2012, MO, PI, 890bis / 27.12.2012]

Candidat: Conf.dr.ing. Marian Barbu

Condiții minime (A)			
Nr. crt.	Domeniul de activitate	Minim prevăzut	Realizat
A1	Activitatea didactică / profesională (A1)	100	180
A2	Activitatea de cercetare (A2)	500	645.163
A3	Recunoașterea impactului activității (A3)	100	289.296
TOTAL (A)		700	1114.459

Condiții minime obligatorii pe subcategorii			
Nr. crt.	Domeniul de activitate	Minim prevăzut	Realizat
A1.1.1 - A1.1.2	Carti si capitole în carti de specialitate	4	6
A1.2.1-A1.2.2	Material didactic / Lucrari didactice	2	4
A2.1	Articole in reviste cotate si in volumele unor manifestari stiintifice indexate ISI proceedings	12	20
A2.4.1	Granturi/proiecte castigate prin competitie (Director/responsabil)	2	4
A3.1.1 - A3.1.2	Numar de citări in carti, reviste si volume ale unor manifestari stiintifice ISI sau BDI	20	99
	Factor de impact cumulată pentru publicatii	6	13.404

Candidat,
 Conf.dr.ing. Marian Barbu

Tabel privind structura activității

Candidat: Conf.dr.ing. Marian Barbu

Domeniu	Categorie	Subcategorie	Realizare	Nr. puncte
A1 (minim 100 puncte)	Carti/capitole Carti specialitate (minim 4)	A1.1.1	1. Tebbani S., Titica M., Ifrim G., Barbu M. , Caraman S., <i>Optimal Operation of a Lumostatic Microalgae Cultivation Process</i> , in: Developments in Model-Based Optimization and Control: Distributed Control and Industrial Applications, Springer, ISBN: 978-3-319-26685-5, pp. 209-235 , 2015.	25
			2. Badea N and Barbu M. , <i>Experimental Case Study</i> , in: Design for Micro-Combined Cooling, Heating and Power Systems, Springer, ISBN 978-1-4471-6254-4, 2014, pp. 337-394	25
			3. Badea N., Epureanu A., Ceangă E, Barbu M. , Caraman S., <i>Functional Design of the mCCHP-RES System</i> in: Design for Micro-Combined Cooling, Heating and Power Systems, Springer, ISBN 978-1-4471-6254-4, 2014, pp. 239-335	25
			4. Barbu M. and Caraman S., Capitol 27: <i>QFT Robust Control of Wastewater Treatment Processes</i> , in cartea: <i>Robust Control, Theory and Applications</i> , Edited by Andrzej Bartoszewicz, ISBN 978-953-307-229-6, Hard cover, Publisher: InTech, Published: April 11, 2011, DOI: 10.5772/619, pp. 577-602	25
	A1.1.2	1. Barbu M. , <i>Conducerea automata a proceselor biotehnologice</i> , Galati University Press, ISBN 978-606-8008-29-5, 2009.	20	
		2. Barbu M. , Caraman S., <i>Modelarea, Simularea și Controlul Bioprocесelor</i> , Galati University Press, ISBN 978-606-8008-41-7, 2009.	20	
	Manuale / Lucrari didactice (minim 2)	A1.2.1	1. Caraman S., Barbu M. , <i>Modelarea și conducerea proceselor biotehnologice. Lucrări practice. Volumul 2: Conducerea automată a proceselor biotehnologice</i> . Editura CERMI Iași, ISBN: 973-627-240-0; 973-973-667-267-7, 2007.	10
			2. Caraman S., Barbu M. , <i>Modelarea si conducerea proceselor biotehnologice. Lucrari practice. Volumul 1: Modelarea si estimarea stării si parametrilor proceselor biotehnologice</i> , Editura Fundatiei Universitatii Dunarea de Jos din Galati, ISBN 973-627-240-0, 2005.	10
			3. Caraman S., Barbu M. , Cârstoiu, D., „ <i>Sisteme bazate pe cunoștințe în conducerea proceselor</i> , Editura Fundatiei Universitatii Dunarea de Jos din Galati, ISBN 973-627-203-6, 2005.	10
			4. Caraman S., Barbu M. , <i>Sisteme de conducere bazate pe microprocesoare</i> , Editura Fundatiei Universitatii Dunarea de Jos din Galati, ISBN: 973-627-028-9, 2003.	10
TOTAL PUNCTAJ CRITERIU A1				180
A2 (minim 500 puncte)	Articole ISI sau ISI Proceedings (minim 12) (factor impact cumulat minim 6)	A2.1	1. Ifrim G., Titica M., Barbu M. , Boillereaux L., Cogne G., Caraman S., Legrand J., Multivariable feedback linearizing control of Chlamydomonas reinhardtii photoautotrophic growth process in a torus photobioreactor, <i>Chemical Engineering Journal</i> , Vol. 218, Pp. 191-203, 2013. WOS:000317255700024 <i>Factor impact: 4.321</i>	15.917
			2. Carp D., Barbu M. , Evaluation Of Control Techniques Applied On A Wastewater Treatment Process With Activated Sludge, <i>Environmental Engineering and Management Journal</i> , August 2014, Vol.13, No. 8, 1979-1985. WOS:000345902900017 <i>Factor impact echivalent: 1.065</i>	23.15

		<p>3. Vlad C., Sbarciog M., Barbu M., Caraman S., Vande Wouwer A., Indirect Control of Substrate Concentration for a Wastewater Treatment Process by Dissolved Oxygen Tracking, <i>Control Engineering and Applied Informatics</i>, Vol. 14, Is. 1, Pp. 37-47, 2012. WOS:000302506600006 <i>Factor impact: 0.537</i></p>	7.148
		<p>4. Barbu M., Experimental results regarding the operating regimes of trickling filters in recirculating aquaculture systems, <i>Fresenius Environmental Bulletin</i>, Vol. 21, No. 11c, Pp. 3500-3506, 2012. WOS:000313458800007 <i>Factor impact: 0.378</i></p>	32.56
		<p>5. Caraman S., Sbarciog M., Barbu M., Predictive control of a wastewater treatment process, <i>International Journal of Computers Communications & Control</i>, Vol. 2, Is. 2, Pp. 132-142, 2007. WOS:000255332900003 <i>Factor impact: 0.746</i></p>	13.307
		<p>6. Barbu M., Ionescu T., Ifrim G., Caraman S., Cristea V., Ceanga E., Results Regarding the Water Quality Control in Recirculating Aquaculture Systems, <i>Journal of Environmental Protection and Ecology</i>, Vol. 13, Is. 1, Pp. 39-47, 2012. WOS:000302843500006 <i>Factor impact: 0.838</i></p>	6.96
		<p>7. Barbu M., Caraman S., Bahrim G., Carp D., Results regarding the control of the dissolved oxygen concentration in wastewater treatment processes, <i>Romanian Biotechnological Letters</i>, Vol. 16, Is. 2, Pp. 6096-6104, 2011. WOS:000290235700016 <i>Factor impact: 0.404</i></p>	8.27
		<p>8. Barbu M., Caraman S., Ifrim G., Bahrim G., Ceanga E., State Observers for Food Industry Wastewater Treatment Processes, <i>Journal of Environmental Protection and Ecology</i>, Vol. 12, Is. 2, Pp. 678-687, 2011. WOS:000294036900034 <i>Factor impact: 0.838</i></p>	8.352
		<p>9. Caraman S., Barbu M., Ionescu T., Ifrim G., Cristea V., Ceanga E., The analysis of the dynamic properties of the wastewater treatment process in a recirculating aquaculture system, <i>Romanian Biotechnological Letters</i>, Vol. 15, Is. 4, Pp. 5457-5466, 2010. WOS:000281350100012 <i>Factor impact: 0.404</i></p>	5.513
		<p>10. Palela M., Ifrim G., Barbu M., Bahrim G., Caraman S., Strategies for the Aerobic Biological Treatment of the Dairy Wastewaters in Controlled Conditions, <i>Environmental Engineering and Management Journal</i>, Vol. 9, Is. 3, Pp. 399-405, 2010. WOS:000277907200016 <i>Factor impact: 1.065</i></p>	9.26

		<p>11. Barbu M., Caraman S., Ceanga E., Optimal Control Strategy of a Biotechnological Process Using a Fuzzy Zonal Model, <i>Romanian Biotechnological Letters</i>, Vol. 13, Is. 5, Pp. 29-38, 2008. WOS:000260813600005 <i>Factor impact: 0.404</i></p>	11.027
		<p>12. Barbu M., Caraman S., Ceanga E., A Modified ASM3 Model for a Trickling Filter, <i>Romanian Biotechnological Letters</i>, Vol. 13, Is. 5, Pp. 39-48, 2008. WOS:000260813600006 <i>Factor impact: 0.404</i></p>	11.027
		<p>13. Barbu M., Caraman S., Ceanga E., Bioprocess control using a recurrent neural network model, <i>Joint Conference of the 20th IEEE International Symposium on Intelligent Control/13th Mediterranean Conference on Control and Automation</i>, Limassol, Cyprus, 2005. WOS:000231530100081 <i>Factor impact echivalent: 0.25</i></p>	10
		<p>14. Carp D., Barbu M., Ceanga E., Vilanova R., Process Control Engineering Considerations on the Application of Virtual Reference Feedback Tuning Method, <i>17th International Conference On System Theory, Control And Computing (ICSTCC)</i>, Sinaia, Octombrie 2013. WOS:000330660500014 <i>Factor impact echivalent: 0.25</i></p>	7.5
		<p>15. Carp D., Barbu M., Mînză V., Robust Control of an Activated Sludge Wastewater Treatment Process, <i>17th International Conference On System Theory, Control And Computing (ICSTCC)</i>, Sinaia, Octombrie 2013. WOS:000330660500015 <i>Factor impact echivalent: 0.25</i></p>	10
		<p>16. Carp D., Barbu M., Mînză V., Network Discharge Control Using a Fuzzy Logic Approach, <i>4th International Symposium On Electrical And Electronics Engineering (ISEEE), Galați, Octombrie 2013</i>. WOS:000335153400018 <i>Factor impact echivalent: 0.25</i></p>	10
		<p>17. Murariu G., Timofti M., Popa P., Georgescu L., Barbu M., Popescu A.A., Statistical and dynamical models on the Prot River state parameters. Monitoring area - Galati, Romania case study, 2013 <i>4th International Symposium On Electrical And Electronics Engineering (ISEEE), Galați, Octombrie 2013</i> WOS:000335153400051 <i>Factor impact echivalent: 0.25</i></p>	5
		<p>18. Badea N., Ceanga E., Caraman S., Barbu M., Numerical simulation of the conceptual model for mCCHP-Stirling Engine based on renewable energy sources, <i>9th International Conference on System Science and Simulation in Engineering</i>, Iwate, Japan, 2010. WOS:000290650600029 <i>Factor impact echivalent: 0.25</i></p>	7.5

		19. Caraman S., Barbu M. , The identification and robust control of a biological wastewater treatment process, <i>International Conference on Automation, Quality and Testing, Robotics (AQTR 2008)</i> , Cluj Napoca, 2008. WOS:000259080000001 <i>Factor impact echivalent: 0.25</i>	15
		20. Caraman S., Barbu M. , Dumitrascu G., Wastewater treatment process identification based on the calculus of state variables sensibilities with respect to the process coefficients, <i>International Conference on Automation, Quality and Testing, Robotics (AQTR 2006)</i> , Cluj Napoca, 2006. WOS:000241464000036 <i>Factor impact echivalent: 0.25</i>	10
Factor de impact cumulativ: 13.404			
Articole reviste sau conferinte BDI	A2.2	1. Barbu M. , Ceanga E., Fractional order controllers for urban wastewater treatment systems, <i>23rd Mediterranean Conference on Control and Automation, MED 2015</i> , June 2015. <i>Articol indexat SCOPUS</i>	10
		2. Barbu M. , Ceanga E., Robust resonant controllers for wastewater treatment systems, <i>18th International Conference on System Theory, Control and Computing, ICSTCC 2014</i> , Sinaia, Octombrie 2014. <i>Articol indexat SCOPUS</i>	10
		3. Barbu M. , Ceanga E., A data-driven approach for the design of feedback controllers, <i>18th International Conference on System Theory, Control and Computing, ICSTCC 2014</i> , Sinaia, Octombrie 2014. <i>Articol indexat SCOPUS</i>	10
		4. Luca L., Barbu M. , Caraman S. , Modelling and performance analysis of an urban wastewater treatment plant, <i>18th International Conference on System Theory, Control and Computing, ICSTCC 2014</i> , Sinaia, Octombrie 2014. <i>Articol indexat SCOPUS</i>	6.667
		5. Minzu V., Barbu M. , Costache M.C., Sewer network discharge control using a multiagent approach, <i>18th International Conference on System Theory, Control and Computing, ICSTCC 2014</i> , Sinaia, Octombrie 2014. <i>Articol indexat SCOPUS</i>	6.667
		6. Vlad C., Minzu V., Barbu M. , Gain scheduling control for wind energy conversion optimization, <i>16th International Conference on System Theory, Control and Computing, ICSTCC 2012 - Joint Conference Proceedings</i> , Sinaia, 2012. <i>Articol indexat SCOPUS</i>	6.667
		7. Barbu M. , Caraman S., Vlad C., Nicolau T., Ceangă E. , Hierarchical control system for recirculating aquaculture processes, <i>16th International Conference on System Theory, Control and Computing, ICSTCC 2012 - Joint Conference Proceedings</i> , Sinaia, 2012. <i>Articol indexat SCOPUS</i>	4

		8. Carp D., Barbu M. , Caraman S., Robust state observers for biological wastewater treatment processes with activated sludge, <i>16th International Conference on System Theory, Control and Computing, ICSTCC 2012 - Joint Conference Proceedings</i> , Sinaia, 2012. <i>Articol indexat SCOPUS</i>	6.667
		9. Vlad C., Caraman S., Carp D., Minzu V., Barbu M. , Gain Scheduling control of dissolved oxygen concentration in a wastewater treatment process, <i>20th Mediterranean Conference on Control and Automation, MED 2012 - Conference Proceedings</i> , Barcelona, 2012. <i>Articol indexat SCOPUS</i>	4
		10. Barbu M. , Mînză V., Carp D., Ceangă E., Identification and sensitivity analysis of a trickling biofilter viewed as a distributed parameters system, <i>15th International Conference on System Theory, Control and Computing, ICSTCC 2011</i> , Sinaia, 2011. <i>Articol indexat SCOPUS</i>	5
		11. Chiroșcă A., Dumitrașcu G., Barbu M. , Caraman S., Fuzzy control of a wastewater treatment process, <i>Smart Innovation, Systems and Technologies 10 SIST</i> , Grecia, 2011 <i>Articol indexat SCOPUS</i>	5
		12. Barbu M. , Ifrim G., Caraman S., Bahrim G., QFT control of dissolved oxygen concentration in a wastewater treatment pilot plant, <i>IFAC Computer Applications in Biotechnology</i> , 2010. <i>Articol indexat SCOPUS</i>	5
		13. Barbu M. , Caraman S., QFT Multivariable Control Of A Biological Wastewater Treatment Process Using ASM1 Model, <i>10th IFAC Symposium on Computer Applications in Biotechnology</i> , Cancun, 2007. <i>Articol indexat SCOPUS</i>	10
		14. Barbu M. , Caraman S., Design Of A Sliding-Mode Observer For A Biotechnological Process, <i>10th IFAC Symposium on Computer Applications in Biotechnology</i> , Cancun, 2007. <i>Articol indexat SCOPUS</i>	10
		15. Barbu M. , Caraman S., Ceangă E., QFT robust control of a wastewater treatment process, <i>IFAC World Congress</i> , Prague, 2005. <i>Articol indexat SCOPUS</i>	6.667
		16. Barbu M. , Ifrim G., Ceangă E., Caraman S., Modelling of a multipurpose biotechnological plant in view of automatic control. Process modelling and control properties analysis, <i>19th International Conference on System Theory, Control and Computing, ICSTCC 2015</i> , Cheile Grădiștei, Octombrie 2015. <i>Articol indexat IEEE Xplore</i>	5
		17. Ifrim G., Barbu M. , Ceangă E., Caraman S., Modeling and control of a multipurpose biotechnological plant. Photobioreactor modeling, <i>19th International Conference on System Theory, Control and Computing, ICSTCC 2015</i> , Cheile Grădiștei, Octombrie 2015. <i>Articol indexat IEEE Xplore</i>	5
		18. Precup R.E., Bojan-Dragoș C.A., Barbu M. , Caraman S., Fuzzy control of an anaerobic digestion process, <i>19th International Conference on System Theory, Control and Computing, ICSTCC 2015</i> , Cheile Grădiștei, Octombrie 2015. <i>Articol indexat IEEE Xplore</i>	5

		19. Pătrașcu A, Necoară I, Barbu M. , Caraman S., Implementable fast augmented Lagrangian optimization algorithm with application in embedded MPC, <i>19th International Conference on System Theory, Control and Computing, ICSTCC 2015</i> , Cheile Grădiștei, Octombrie 2015. <i>Articol indexat IEEE Xplore</i>	5
		20. Mînză V., Barbu M. , Nechita C., A Binary Hybrid Topology Particle Swarm Optimization algorithm for sewer network discharge, <i>19th International Conference on System Theory, Control and Computing, ICSTCC 2015</i> , Cheile Grădiștei, Octombrie 2015. <i>Articol indexat IEEE Xplore</i>	6.667
		21. Luca L., Barbu M. , Ifrim G., Caraman S., Analysis of phosphorus removal performances in a municipal treatment plant, <i>19th International Conference on System Theory, Control and Computing, ICSTCC 2015</i> , Cheile Grădiștei, Octombrie 2015. <i>Articol indexat IEEE Xplore</i>	5
		22. Caraman S., Ifrim G., Ceanga E., Barbu M. , Titica M., Precup R.E., Extremum seeking control for an anaerobic digestion process, <i>19th International Conference on System Theory, Control and Computing, ICSTCC 2015</i> , Cheile Grădiștei, Octombrie 2015. <i>Articol indexat IEEE Xplore</i>	3.333
		23. Caraman S., Barbu M. , Arinton E., The Linearizing Control Of A Wastewater Treatment Process With The Removal Of Two Substrates, <i>Annals Of The University Of Craiova, Series: Automation, Computers, Electronics And Mechatronics</i> , Vol. 4(31), No. 1, Pp. 35-40, 2007. <i>Articol indexat Google Scholar</i>	6.667
		24. Barbu M. , Barbu G., Ceanga E., The Multi-model Control of the Wastewater Treatment Process with Activated Sludge, <i>12th Mediterranean Conference on Control and Automation-MED'04</i> , Kusadasi, 2004. <i>Articol indexat Google Scholar</i>	6.667
		25. Caraman S., Barbu M. , Mînză V., Badea N. Ceangă E., Modelling and Control of an Autonomous Energetic System Obtained through Trigeneration - <i>Buletinul Institutului Politehnic Din Iași, Universitatea Tehnică, „Gheorghe Asachi” din Iași</i> , Tomul LVI (LX), Fasc. 4, Secția Automatică Și Calculatoare, Pp. 43-51, 2010. <i>Articol indexat Google Scholar</i>	4
		26. Caraman S., Barbu M. , Ceanga E., Robust multimodel control using QFT techniques of a wastewater treatment process, <i>Control Engineering and Applied Informatics</i> , Vol. 7, Is. 2, Pp. 10-17, 2005. <i>Articol indexat Google Scholar</i>	6.667
		27. Barbu M. , Caraman S., Ceanga E., Stochastic Estimation Techniques for Biotechnological Processes, <i>Control Engineering and Applied Informatics</i> , Vol. 6, Is. 4, Pp. 43-51, 2004. <i>Articol indexat Google Scholar</i>	6.667
		28. Ifrim G., Barbu M. , Titica M., Boillereaux L., Caraman S., Control of the Microalgae Photosynthetic Growth in a Torus Photobioreactor, <i>Annals Of The University Of Craiova, Series: Automation, Computers, Electronics And Mechatronics</i> , Vol. 4(31), No. 1, Pp. 32-38, 2012 <i>Articol indexat Google Scholar</i>	4

		29. Barbu M. , Caraman S., Liga V., Nicolau T., Ceanga E., Modelling and numerical simulation of the flocculation process, <i>Innovative Romanian Food Biotechnology</i> , Vol. 7, Pp. 49-54, 2010. <i>Articol indexat Google Scholar</i>	4
		30. Barbu M. , Ceanga E., Gheorghiu C., Real Time Supervising Modeling of a Continuous Casting Mold Using Artificial Intelligence Techniques, <i>11th Mediterranean Conference on Control and Automation - MED2003</i> , Rhodes, 2003 <i>Articol indexat Google Scholar</i>	6.667
		31. Barbu, M. , Caraman, S., Ceanga, E., Biotechnological Processes Identification Using Dynamic Neural Network, <i>1st Romanian-Hungarian Joint Symposium on Applied Computational Intelligence, SACI 2004</i> , Timisoara, Proceedings ISBN 963-7154-26-4, Pp. 11-20, 2004. <i>Articol indexat Google Scholar</i>	6.667
		32. Caraman S., Barbu M. , Munteanu C., Expert System Based on Fuzzy Rules for Alpha-amylase Production with Bacillus subtilis, <i>9th IFAC Symposium Computer Applications in Biotechnology – CAB 9</i> , Nancy, 2004 <i>Articol indexat Google Scholar</i>	6.667
		33. Caraman S., Barbu M. , Mean Age Control Strategies Techniques of the Continuous and Discontinuous Biosynthesis Processes. Comparative Study, <i>Control Engineering and Applied Informatics</i> , Vol. 5, Is. 2, Pp. 34-39, 2003. <i>Articol indexat Google Scholar</i>	10
		34. Barbu M. , Ceanga E., Caraman S., Self-tuning of PI Controllers Using Fuzzy Techniques, <i>11th Mediterranean Conference on Control and Automation - MED2003</i> , Rhodes, 2003. <i>Articol indexat Google Scholar</i>	6.667
		35. Caraman S., Frangu L., Ceanga E., Barbu M. , Neuro-fuzzy Control of Microorganisms Mean Age in Biotechnological Processes, <i>10th Mediterranean Conference on Control and Automation - MED2002</i> , Lisabona, 2002. <i>Articol indexat Google Scholar</i>	5
		36. Barbu, M. , Caraman, S., Ceanga, E., Control Strategies of a Multivariable Wastewater Treatment Process. Comparative Study, Workshop on Modeling and Control of Complex Systems, Ayia Napa, Cyprus, June 30 – July 1, 2005. <i>Articol indexat Google Scholar</i>	6.667
		37. Vlad C., Sbarciog M.I., Barbu M. , Linear predictive control of a wastewater treatment process, <i>The Annals of Dunarea de Jos' University of Galati, Fascicle III: Electrotechnics, Electronics, Automatic Control, Informatics</i> , Vol. 34, No. 1, Pp. 15-20, 2011. <i>Articol indexat Google Scholar</i>	6.667
		38. Barbu M. , Caraman S., Fuzzy models for alpha-amylase biosynthesis process with Bacillus Subtilis, <i>The 4th Symposium on Process Control (SPC'2003)</i> , Ploiesti, 2003. <i>Articol indexat Google Scholar</i>	10

		39. Roman N., Alexiu M.G., Caraman S., Barbu M. , Bivol I., Ceanga E., Adaptive Filter Used as a Dynamic Compensator in Automatic Gauge Control of Strip Rolling Processes, <i>The Annals of Dunarea de Jos' University of Galati, Fascicle III: Electrotechnics, Electronics, Automatic Control, Informatics</i> , Vol. 33, No. 1, 2010. <i>Articol indexat Google Scholar</i>	3.333
		40. Vlad C., Burlibaşa A, Munteanu T, Gurguiatu G., Barbu M. , Test rig for stand-alone small power wind turbine emulation for variable wind and Load, <i>International Conference on Renewable Energies and Power Quality (ICREPQ'13)</i> , Bilbao, 2013 <i>Articol indexat Google Scholar</i>	4
		41. Barbu M. , Caraman S., Ceangă E., QFT Robust Control of Biotechnological Processes, <i>IEEE-TTTC International Conference on Automation, Quality and Testing, Robotics, AQTR</i> , pp. 129-134, 2004.	6.667
		42. Barbu M. , Caraman S., Ceangă E., State and Parameter Estimators for the Biosynthesis Processes, <i>6th International Conference on Technical Informatics, CONTI</i> , pp. 139-144, 2004. <i>Articol indexat Google Scholar</i>	6.667
Granturi - competitie (minim 2)	A2.4.1.2	1. Algoritmi și structuri de conducere automată inteligentă a bioprocnelor, Grant CNCSIS tip TD, Beneficiar Ministerul Educației și Cercetării, (2002: Grant CNCSIS tip TD Nr. 39590, Cod 138, 2003: Nr. 33251, Cod 34, 2004: Nr. 33334, Cod 34) Director: Marian Barbu. Perioada de derulare 2002 - 2004.	30
		2. Tehnici de estimare și conducere avansată a proceselor de tratare a apelor uzate, Grant CNCSIS tip TD Nr. 27672, Cod 342, Beneficiar Ministerul Educației și Cercetării, 2005. Director: Marian Barbu. Perioada de derulare 2005.	10
		3. Modelarea și Conducerea Automată Avansată a Sistemelor Recirculante de Acvacultura Intensivă, Grant PostDoc PD_79, Contract nr. 9 / 28.07.2010, Director: Marian Barbu. Perioada de derulare 2010 - 2012.	20
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	A2.4.2.2	1. Grant PN II, Tehnici avansate de control automat a calitatii efluentilor sistemelor recirculante de acvacultura intensivă, Grant Nr. 31062/2007, Beneficiar Ministerul Educației și Cercetării, Director proiect: Prof.dr.ing. Emil Ceanga Membru al echipei de implementare și Responsabil financiar. Perioada de derulare: 2007-2010.	6

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		<p>3. Proiect INOVARE, Sistem Informatic si de Automatizare pentru Managementul si Conducerea Procesului de Fabricatie a benzilor Lamine la Rece, Beneficiar Ministerul Educației și Cercetării, Grant Nr. 237/2008, Responsabil institutional: Prof.dr.ing. Sergiu Caraman.</p> <p>Membru al echipei de implementare. Perioada de derulare: 2008-2010.</p>	4
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		<p>6. Sistem de modelare prin rețele XML si optimizare bazata pe metaeuristici hibride a lanturilor logistice, Grant CNCISIS tip A Nr. 2488, Cod CNCISIS 1340, Beneficiar Ministerul Educației și Cercetării, Director proiect: Prof.dr.ing. Viorel Mînză.</p> <p>Membru al echipei de implementare. Perioada de derulare: 2005-2006.</p>	4
		<p>7. Supervision and optimal control of grid connected asynchronous generator based wind power systems – research project funded by the Romanian National Council for Academic Scientific Research (C.N.C.S.I.S.), GRANT no. 2487/2006, Director proiect: dr. Antoneta Iuliana BRATCU.</p> <p>Membru al echipei de implementare. Perioada de derulare: 2007.</p>	2
		<p>8. Laborator virtual pentru training aplicativ academic; Contract: INFOSOC; Contract: INFOSOC; Numar de identificare proiect: C3/42; Nr. contract: INF – 73 / 02.09.2002; Institutia care a finantat proiectul: Ministerul Educatiei si Cercetarii, Director: Prof.dr.ing. Viorel Mînză</p> <p>Membru al echipei de implementare. Perioada de derulare: 2002-2003.</p>	2
		<p>9. Sistem informatic educational-biblioteca virtuala - E-BOOK; Contract: INFOSOC; Numar de identificare proiect: C1 /142; Nr. contract: INF – 20 / 22.10.2001; Institutia care a finantat proiectul: Ministerul Educatiei si Cercetarii, Director: Prof.dr.ing. Viorel Mînză.</p> <p>Membru al echipei de implementare. Perioada de derulare: 2001-2002.</p>	2
		<p>10. Sistem inteligent de modelare matematica, monitorizare si conducere a proceselor de turnare continua a materialelor feroase si neferoase; Contract: INFOSOC; Numar de identificare proiect: C2 / 75; Nr. contract: INF – 46 / 12.11.2001; Institutia care a finantat proiectul: Ministerul Educatiei si Cercetarii, Director: Prof.dr.ing. Viorel Mînză.</p> <p>Membru al echipei de implementare. Perioada de derulare: 2001-2002.</p>	2
		<p>11. Integrated Regenerative Electric Drive System, Proiect Colaborative de Cercetare Aplicativa, PN-II-PT-PCCA-2011-3.2-1680, Director Proiect: Conf.dr.ing. Marian Găiceanu.</p> <p>Membru al echipei de implementare. Perioada de derulare: 2012-prezent.</p>	8

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		13. Sistem de conducere avansată a unei instalații de tip biorafinărie - BIOCON, Proiect Parteneriate, Contract 269/2014, Director Proiect: Prof.dr.ing. Sergiu Caraman Membru al echipei de implementare. Perioada de derulare: 2014-prezent	4
		14. Controlul ierarhizat inteligent al sistemelor distribuite de producere și utilizare a energiei electrice, Proiect Echipe de Tineri, PN-II-RU-TE-2014-4-1761, Director Proiect: Conf.dr.ing. Ciprian Vlad Membru al echipei de implementare. Perioada de derulare: 2015-prezent	2
TOTAL PUNCTAJ CRITERIU A2			645.163
A3 (minim 100 puncte)	Citari (minim 20 citari)	A3.1.1. 1. <i>Articol citat:</i> Caraman S., Sbarciog M., Barbu M. , Predictive control of a wastewater treatment process, <i>International Journal of Computers Communications & Control</i> , Vol. 2, Is. 2, Pp. 132-142, 2007. <i>Citari in:</i> A. Investigation of the Influence of Network-Induced Time Delays on the Activated Sludge Process Behavior in the Networked Wastewater Distributed Systems, Ogidan, Olugbenga Kayode; Kriger, Carl; Tzoneva, Raynitchka, IEEJ Transactions On Electrical And Electronic Engineering, Vol. 10, Is. 2, pp. 201-208, 2015. B. Two-Level Multivariable Control System of Dissolved Oxygen Tracking and Aeration System for Activated Sludge Processes, Piotrowski, Robert, Water Environment Research, Vol. 87, Is. 1, pp. 3-13, 2015. C. Fuzzy model-based predictive control of dissolved oxygen in activated sludge processes, Yang, Ting; Qiu, Wei; Ma, You; et al., Neurocomputing, Vol. 136, pp. 88-95, 2014. D. A fundamental analysis of dynamics of waste biodegradation in aerobic processes, Ajbar, AbdelHamid; AlZeghayer, Youssef, Asia-Pacific Journal Of Chemical Engineering, Vol. 9, Is. 3, pp. 423-430, 2014. E. Stable Neural-Adaptive Control of Activated Sludge Bioreactors, Macnab, C. J. B., American Control Conference, Portland, pp. 2869-2874, 2014. F. Computational Intelligence Techniques for Chemical Process Control, Paraschiv, N.; Oprea, M.; Carbureanu, M.; et al., Innovations In Intelligent Machines-5: Computational Intelligence In Control Systems Engineering, Vol. 561, pp. 191-226, 2014. G. Development of effluent removal prediction model efficiency in septic sludge treatment plant through clonal selection algorithm, Ting, Sie Chun; Ismail, A. R.; Malek, M. A., Journal Of Environmental Management, Vol. 129, pp. 260-265, 2013. H. Data-derived soft-sensors for biological wastewater treatment plants: An overview, Haimi, Henri; Mulas, Michela; Corona, Francesco; et al., Environmental Modelling & Software, Vol. 47, pp. 88-107, 2013.	42.667

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Organizare reviste / conferinte	A3.3.1	1. 17th International Conference on System Theory, Control and Computing, Joint Conference SINTES 17, SACCS 13, SIMSIS 17, 11 - 13 October 2013, Sinaia, Romania <i>Conferinta indexata ISI Proceedings</i>	10
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TOTAL PUNCTAJ CRITERIU A3			289.296
TOTAL PUNCTAJ (A)			1114.459

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