Universitatea "Dunărea de Jos" din Galaţi
Domeniul fundamental: Ştiinţe Inginereşti
Comisia CNATDCU: 15. Calculatoare, Tehnologia Informaţiei şi Ingineria Sistemelor

PROF. DR. ING. ADRIAN FILIPESCU

(INDEPLINIRE STANDARDE MINIMALE SI OBLIGATORII PENTRU TITLUL DE PROFESOR SI CONDUCATOR DE DOCTORAT, ordin nr.6129/2016)

Condiţii minimale (A)			
Nr. crt.	**Domeniul de activitate**	**Minim prevăzut**	**Realizat**
A1	Activitatea didactică / profesională (A1)	**100**	**200,35p (184,14%)**
A2	Activitatea de cercetare (A2)	**600**	**1258,65(209,77%)**
A3	Recunoaşterea impactului activităţii (A3)	**150**	**375,04 (254,02%)**
TOTAL (A)		**850**	**1834,055 (215.77%)**

Condiţii minimale obligatorii pe subcategorii			
Nr. crt.	**Domeniul de activitate**	**Minim prevăzut**	**Realizat**
A1.1.1 - A1.1.2	Carti si capitole în carti de specialitate	**1**	**9**
A2.1	Articole în reviste cotate ISI și în volumele unor manifestări științifice indexate ISI proceedings	**15** **3 in reviste cotate ISI, Q1 sau Q2, dintre care una și numai una dintre lucrările necesare poate fi echivalată cu: (1 articol în conferințe internaționale de top (rank A sau A*) în domeniul de abilitare, lista acestora agreată și ținută la zi de comisia CNATDCU nr.15 fiind disponibilă la adresa www.cnatdcu-c15.org)**	**50** **1 revista Q1** **A.2.1.50** **1 revista Q2** **(A.2.1_9)** **1 revista Q3** **A.2.2.24** **1 revista Q4** **A2.1.11** **o echivalare cu A.2.1_41 (IEEE CDC 2003)** **sau A2.1.32** **www.cnatdcu-c15.org**

A2.4.1	Granturi / proiecte de cercetare câștigate prin competiție (Director / Responsabil partener)	**2**	**13**
A3.1.1	Număr de citări în cărți, reviste cotate ISI și volume ale unor manifestări științifice ISI (WOS)	**25**	**78** **Excluse autocitarile**
	Factor de impact cumulat pentru publicatii	**10**	**20,482**

Hirsch index ISI Web of Science (WoS)=6

Hirsch index SCOPUS=10

Hirsh index Google scholar=14

A1

A1.1 Carti/monografii/capitole ca autor

A1.1.1. internationale

1. **Filipescu A.**, Minzu V. Filipescu A. Jr.,Minca E. Discrete-Time Sliding-Mode Control of a MobilePlatform with Four Driving/Steering Wheels, Lecture Notes in Electrical Engineering, 122,ISSN 1876-1100, Gary Lee Editor, Advances in Automation and Robotics, Vol. 1, LNEE 122, pp. 401–409. springerlink.com © Springer-Verlag Berlin Heidelberg 2011 **(12,5p)**
2. Volum Proceedings - M. Barbu, R. Solea, A. Filipescu, Editors of Proceedings of the 2018 22th International Conference on System Theory, Control and Computing (ICSTCC 2018, Editura IEEE, ISBN 978-1-5386-4444-7, 2018 **(16,66p)**

A.1.1.1=28,71p

A1.1.2. nationale

1. **Filipescu A.** Sliding-Mode Robotic Manipulators and Mobile Robots Control, Editura MatrixRom (Cod CNCSIS 039), (in English), Bucuresti, 2006, ISBN(13) 978-973-755-034-7, ISBN (10) 973-755-034-X. **(50p)**
2. **Filipescu, A.,** Stamatescu S., -Teoria sistemelor. Analiza si sinteza sistemelor liniare in abordare structurala. Editura MatrixRom (Cod CNCSIS 039), Bucuresti, 2002, ISBN 973-685-465-5**.(25p)**
3. Bratcu,A., **Filipescu, A.,** Metode numrice utilizate in analiza sistemelor, Editura MatrixRom (Cod CNCSIS 039), Bucuresti, 2004, ISBN 973-685-823-5. **(25p)**
4. **Filipescu, A.,** Curti, G., Stamatescu S., -Variable Structure and Compound Model Reference Adaptive Control, in English, Matrix Rom Publishing (CNCSIS Code 039), Bucharest, 2002, ISBN973-685-447-7. **(16,66p)**
5. **Filipescu, A.,** Stamatescu S., -Conducerea proceselor prin tehnici adaptive si cu structura variabila, Algoritmi si Robustete, Editura Matrix Rom (Cod CNCSIS 039), Bucuresti, 1999, ISBN 973-9390-97-8**.(25p)**
6. **Filipescu, A.,**Silviu Măcuţă, Eugen Merticaru – Maşini automate de ambalat din industria alimentară, Editura “EVRIKA”, Brăila, 199,ISBN 973-9499-80-5**.(16,66p)**

A1.1.2=158,32p

A1.1.=187,03p

A1.2. Material didactic/Lucrari didactice

A1.2.1. Manuale didactice

1. Ceangă, E., Tusac, I., Dugan, V., Miholcă, C., **Filipescu, A.,** Mînzu V.,-Electronica si Automatizari, Volume I, Litografia Universitatii Dunarea de Jos din Galati, 1984, 530p. **(6,66p)**
2.Ceangă, E., Dugan, V., Miholcă, C., **Filipescu, A.,** Mînzu V., Bojneag, C., - Electronica si Automatizari Volume II, Litografia Universitatii Dunarea de Jos din Galati, 1986, 236p. (**6,66p)**

A1.2=13,32p

Total A1=200,35p

A2.

A2.1. Articole in reviste cotate si in volumele unor manifestari stiintifice indexate ISI proceedings
(25+30*factor de impact)/nr autori

1. **Filipescu Adrian**, Minca Eugenia, Cernega Daniela, Filipescu Adriana, Solea Razvan, SHPN Models Based Simulation and Control of Mobile Robotic Systems Integrated into A/DML Proceedings of 21th IEEE, International Conference on System Theory, Control and Computing, ICSTCC2017 19-21, Oct. Sinaia, 2017, pp. 320-325, ISBN: 978-1-5386-3841-5. **(6,5p)**
2. **Filipescu Adrian**, Solea Razvan, Petrea George, Cernega Daniela, Filipescu Adriana, Ciubucciu George, SHPN Modelling, Visual Servoing and Control of WMR with RM Integrated into P/RML, Proceedings of the 21th IEEE, International Conference on System Theory, Control and Computing, ICSTCC2017 19-21, Oct. Sinaia, 2017, pp. 230-235 ISBN: 978-1-5386-3841-5 (WoS indexed).**(5,41p)**
3. George Ciubucciu, Razvan Solea, **Adrian Filipescu**, Adriana Filipescu, "Visual Servoing and Obstacle Avoidance Method based Control Autonomous Robotic Systems Servicing a Mechatronics Manufacturing Line", Proceedings of the 2017 IEEE 9th International Conference on Intelligent Data Acquisition and Advanced Computing Systems: Technology and Applications (IDAACS) 21-23, Sep, 2017 Bucharest Vol. 2, pp. 874- 879, 20IEEE Catalog number: CFP17803-USB, ISBN 978-1-5386-0697-1/17/$31.00 ©2017 IEEE **(8,125p)**.
4. **Adrian Filipescu**, Adriana Filipescu Jr., Eugenia Minca, Alina Voda, Hybrid Modeling,Balancing and Control of a Mechatronics Line Served by Two Mobile Robots,International Conference on System Theory, Control and Computing, Joint Conference SINTES 16, SACCS 12, SIMSIS 16, Proceedings of the 20th IEEE, International Conference on System Theory, Control and Computing, ICSTCC2016 13-15, Oct. Sinaia, 2016, pp. 234-239, 978-1-5090-2720-0/16/$31.00 ©2016 IEEE**(8,125p);**
5. George Ciubucciu, **Adrian Filipescu**, Adriana Filipescu, Silviu Filipescu, Bogdan Dumitrascu, Control and Obstacle Avoidance of a WMR, Based on Sliding-Mode, Ultrasounds and Laser, 12th IEEE International Conference on Control & Automation (ICCA), Kathmandu, Nepal, June 1-3, 2016, ISBN: 978-1-5090-1737-9 **(6,5p)**
6. Minca E., **Filipescu, A**., Dragomir O., Coanda, H., G., Dragomir F., Cycle Time Optimization of a Reversible A/DML Served by a Mobile Robotic System, Proceedings of the 19th IEEE, International Conference on System Theory, Control and Computing, ICSTCC 2015 14-16, Oct. Cheile Gradistei, Romania, 2015, pp.99-104, ISBN: 978-1-4799-8481-7©2015 IEEE **(6,5p)**
7. **Filipescu, A.**, Minca E., Voda A., Dumitrascu B., Filipescu A., Jr., Ciubucciu G., Sliding-Mode Control and Sonnar Based Bubble Rebound Obstacle Avoidance for a WMR, Proceedings of the 19th IEEE, International Conference on System Theory, Control and Computing, ICSTCC 2015 14-16, Oct. Cheile Gradistei, Romania, 2015, pp.105-110, ISBN: 978-1-4799-8481-7©2015 IEEE **(5,41p)**
8. Razvan Solea, **Adrian Filipescu**, Adriana Filipescu Jr. Eugenia Minca, Silviu Filipescu, Wheelchair Control and Navigation Based on Kinematic Model and Iris Movement, Proceedings of the 2015 7th IEEE International Conference on Robotics, Automation and Mechatronics (CIS&RAM), 15 – 17 July 2015, Angkor Wat, Cambodia, IEEE Catalog Number: CFP15835-CDR, ISBN: 978-1-4673-7336-4, pp:78-83**(6,5p)**
9. Eugenia Minca, **Adrian Filipescu**, Alina Voda, Modelling and control of an assembly/disassembly mechatronics line, served by mobile robot with manipulator, Control Engineering Practice vol. 31

(2014) pp. 50–62, ISSN: 0967-0661, DOI: 10.1016/j.conengprac.2014.06.005, 0967-0661/& 2014 Elsevier Ltd. All rights reserved (impact factor 2.962) (**37,95p)**

10. Filipescu Adriana, Petrea George, **Filipescu Adrian**, Filipescu Silviu-Modeling and Control of a Mechatronics System Served by a Mobile Platform Equipped with Manipulator, Proceedings of the 33rd Chinese Control Conference, July 28-30, 2014, Nanjing, China, pp. 6577-6582, ISBN:978-988-15638-4-2, IEEE Catalog number CFP:1441A-CDR**.(8,125p)**
11. A.Chirosca, G. Ifrim, **A. Filipescu,** S. Caraman:Multivariable H∞ Control of Wastewater Biological Treatment Processes, CONTROL ENGINEERING AND APPLIED INFORMATICS, CEAI, Vol.15, No.1 pp. 11-21, 2013, ISSN 1454-8658, (impact factor=0.695), (**11,49)p**
12. A. Filipescu Jr., G. Petrea, A. Filipescu, E. Minca, S. Filipescu-Discrete modelling based control of a processing/reprocessing mechatronics line served by an autonomous robotic system, The 4th International Symposium on Electrical, and Electronics Engineering, ISEEE 2013, 11-13, Oct, Galati, 2013, ISBN: 978-1-4799-2442-4/13/$31.00 ©2013 IEEE.(**6,5p)**
13. Eugenia MINCA, Adrian FILIPESCU, Alina VODA, A Theoretical Approach of the Generalized Hybrid Model Based on the Control of Repetitive Processes, In Proceedings of the 9thAsia Control Conference (ASCC2013), ISBN:978-1-4673-5769-2, 23-26 June, 2013, Istanbul, Turkey.(**10,83)p**
14. B. Dumitrascu, A. **Filipescu,** A. Voda, E. Minca, S. Filipescu G. Petrea, Laser-based Obstacle Avoidance Algorithm for Four Driving/Steering Wheels Autonomous Vehicle International Conference on System Theory, Control and Computing, Joint Conference SINTES 16, SACCS 12, SIMSIS 16, Proceedings of the 17th IEEE, Intrenational Conference on System Theory, Control and Computing, ICSTCC2013 11-13, Oct. Sinaia, 2013, pp.187-192, ISBN: 978-1-4799-2228-4/13/$31.00 ©2013IEEE.(**5,41p)**
15. G. Petrea, A. **Filipescu,** E. Minca, A. Voda A. Filipescu Jr., A. Serbencu, Hybrid modeling based control of an processing/reprocessing mechatronics line served by an autonomous robotic system,International Conference on System Theory, Control and Computing, Joint Conference SINTES 16, SACCS 12, SIMSIS 16, Proceedings of the 17th IEEE, Intrenational Conference on System Theory, Control and Computing, ICSTCC2013 11-13, Oct. Sinaia, 2013, pp. 410-415, ISBN: 978-1-4799-2228-4/13/$31.00 ©2013IEEE.(**5,41p)**
16. Eugenia MINCA, Alina Voda, Adrian Filipescu and Adriana Filipescu: Hybrid Model Based Control of a Mechatronics Line Served by Mobile Robot with Manipulator, In Proceedings of the 8th IEEE International Conference on Industrial and Electronic Application (ICIEA2013),pp. 1296-1301,ISBN: 978-1-4673-6322-8,19-21, June, 2013, Melbourne, Australia.(**8,125p)**
17. Eugenia Minca, **Adrian Filipescu** and AlinaVoda, New Approach in Control of Assembly/Disassembly Line Served by Robotic Manipulator Mounted on Mobile Platform, 2012 IEEE International Conference on Robotics and Biomimetics (ROBIO 2012), ISBN;978-1-4673-2126-3, pp.235-240. 11-14 Dec, 2012, Guangzhou, China.(**10,83p)**
18. Dumitrascu, Bogdan; **Filipescu, Adrian**; Minzu, Viorel; Voda, Alina; Minca, Eugenia., Discrete-time sliding-mode control of four driving-steering wheels autonomous vehicle, Proceedings of the 30th Chinese Control Conference (CCC 2011), pp.3620 – 3625, ISSN: 1934-1768, ISBN: 978-1-4577-0677-6, 22-24 July 2011, Yanthai, China (**6,5p)**
19. **Filipescu A.,** Susnea I., Minzu V., Vasiliu G. and Filipescu S., Obstacle Avoidance and Path Following Controlof a WMR used as Personal Robotic Assistant 18th Mediterranean Conference on Control & Automation Congress Palace Hotel, Marrakech, Morocco, June 23-25, 2010, pp:1555-1560, ISBN: 978-1-4244-8092-0/10/$26.00 ©2010 IEEE, IEEE Catalog Number CFP10 MED-CDR;(**6,5p)**
20. Solea R., **Filipescu A.,**Filipescu S., Dumitrascu B.,- Sliding-mode Controller for Four-Wheel-Steering Vehicle:Trajectory-Tracking Problem, the 8thWorld Congress on Intelligent Control and Automation, July 6-9 2010, Jinan, China, pp: 1185-1190, ISBN: 978-1-4244-6712-9/10/$26.00 ©2010 IEEE;(**8,125p)**
21. Solea, Razvan; Cernega, Daniela; **Filipescu, Adrian**; Serbencu Adrian. FORMATION CONTROL OF MULTI-ROBOTS VIA SLIDING-MODE TECHNIQUE. 7th International Conference on Informatics in Control, Automation and Robotics Location: Funchal, Madeira, PORTUGAL Date: JUN 15-18, 2010, ICINCO 2010: PROCEEDINGS OF THE 7TH INTERNATIONAL CONFERENCE ON INFORMATICS IN CONTROL, AUTOMATION AND ROBOTICS, VOL 2, Pages: 161-166, Published: 2010 **(8,125p)**

22. **Filipescu A**, Susnea I., Minzu V., Filipescu S.,- Fuzzy Control and Bubble Rebound Obstacle Avoidance of a Mobile Platform Used as Robotic Assistant, Proceedings of the 29th Chinese Control Conference July 29-31, 2010, Beijing, China, pp:3654-3659, ISBN:978-7-89463-104-6**.(8,125p)**
23. Solea R., **Filipescu A.,** Cernega D.,- Lateral Motion Control of Four-Wheels Steering Vehicle Using a Sliding-Mode Controller, Proceedings of the 29th Chinese Control Conference July 29-31, 2010, Beijing, China, pp:3699-3703, ISBN:978-7-89463-104-6. **(10,83p).**
24. Susnea I., Vasiliu G**., Filipescu A.,**Radaschin A., Virtual Pheromones for Real-Time Control of Autonomous Mobile Robots, STUDIES IN INFORMATICS AND CONTROL,**Volume: 18, Issue: 3, Pages: 233-240, Published: SEP 2009,** IDS Number: 499SC, **ISSN:** 1220-1766, (impact factor=1.02) **(13,90)p**
25. Susnea I., **Filipescu A**., Serbencu A, Radaschin A, *Virtual Pheromones to Control Mobile Robots*. A Neural Network Approach, Proceedings of the IEEE International Conference on Automation and Logistics, Shenyang, China, ISBN: 978-1-4244-4795-4/09, 2009 IEEE, CD-ROM Proceedings IEEE, Catalog#: CFP09CAL, August 5 - 7, 2009, Shenyang, China, pp1962-1967.(**8,125p)**
26. **Filipescu Adrian,**Susnea I, Filipescu Silviu, Stamatescu G.,Wheeled Mobile Robot Control Using Virtual Pheromones and Neural Networks,Proceedings of2009 IEEE International Conference on Control and Automation Christchurch, New Zealand, December 9-11, 2009, IEEE Catalog Number CFP09537, ISBN: 978-1-4244-4707-7, pp: 157-162, Library of Congress:2009904841**,(8,125p)**
27. **Filipescu Adrian,** Susnea I, Filipescu Adriana, Stamatescu G.,Distributed System of Mobile Platform Obstacle Avoidance and Control as Robotic Assistant for Disabled and Elderly,Proceedings of2009, IEEE International Conference on Control and Automation Christchurch, New Zealand, December 9-11, 2009,IEEE Catalog Number CFP09537,ISBN: 978-1-4244-4707-7, pp: 1886-1891, Library of Congress:2009904841**,(8.125p)**
28. Susnea I**.,** Vasiliu G, **Filipescu A,** Coman G., Radaschin A., Real-Time Control of Autonomous Mobile Robots Using Virtual Pheromones, Proceedings of the 7th Asian Control Conference,Hong Kong, China, August 27-29, 2009, IEEE Catalog Number CFP09832, ISBN:978-89-956056-9-1, pp.1450-1455, (**6,5p)**
29. **Filipescu Adrian,** Susnea I, Filipescu Adriana, StamatescuG.,Control of Mobile platforms as Robotic Assistants for Elderly, Proceedings of the 7th Asian Control Conference,Hong Kong, China, August 27-29, 2009, IEEE Catalog Number CFP09832, ISBN:978-89-956056-9-1, pp.1456-1461,(**8,125p)**
30. Solea R., **Filipescu A.,** Nunes U.,Sliding-Mode Control for Trajectory-Tracking of a Wheeled Mobile Robot in Presence of Uncertainties, Proceedings of the 7th Asian Control Conference,Hong Kong, China, August 27-29, 2009, IEEE Catalog Number CFP09832, ISBN:978-89-956056-9-1, pp.1701-1706,(**10,83p)**
31. Susnea I, **Filipescu A,** Minzu V,Vasiliu G, Virtual Pheromones and Neural Networks based Wheeled Mobile Robot Control, Recent Advances on Systems, Proceedings of thr 13 International Conference on Systems WSEAS, CSCC Multiconference, ISBN 978-960-474-097-0, ISSN: 1790-2769, Rodos, Greece , JULY 22-24, 2009, pp 511-516 Mathematics and Computers in Science Engineering, Aseries of Reference Books and Textbook Published by WSEAS Press, (**8,125p)**
32. Solea R., **Filipescu A.,** Stamatescu G. Sliding-mode real-time mobile platform control in the presence of uncertainties, Proceedings of the 48th IEEE Conference on Decision and Control & 28th Chinese Control Conference, Shanghai, China, December 16-18, 2009, IEEE Catalog Number CFP09CDC-CDR, ISBN:978-1-4244-3872-3, pp.7747-7752, Library of Congress: 79-640961, ISSN:0191-2216, (inpact factor=0.75, www.cnatdcu-c15.org) (**15,83p)**
33. Susnea I,**Filipescu A**, Vasiliu G., Filipescu S., Path Following, Real-time, Embedded Fuzzy Control of a Mobile Platform Wheeled Mobile Robot, IEEE International Conference on Automation and Logistics, ICAL 2008, 1-3 Sep., Qingdao, China,IEEE ICAL 2008 CD Proceedings, pp.91-96,IEEE Catalog Number: CFP08CAL, ISBN: 978-1-4244-2503-7, Library of Congress: 2008903794, (**8,125p)**
34. Susnea I, Vasiliu G, **Filipescu A,-**Real-Time, Embedded Fuzzy Control of the Pioneer3-DX Robot for Path Following,Proceedings of 12th WSEAS International Conference on SYSTEMS, Heraklion, Greece, July 22-24, 2008, pp.334-338,ISBN: 978-960-6766-83-1,ISSN: 1790-2769, Published by WSEAS Press **(10,81p)**
35. Susnea I**.,**Vasiliu G, **Filipescu A,-**RFID Digital Pheromones for Generating Stigmergic Behaviour to Autonomous Mobile Robots, 4th WSEAS Int. Conf. on Dynamic Systems and Control (Control

'08)**,**CORFU ISLAND, GREECE, October 26-28, 2008, pp.20-24, ISBN 978-960-474-014-7, ISSN: 1790-2769Proceedings + Book published by WSEAS, (**10,81p)**

36. Susnea I**.,**Vasiliu G, **Filipescu A,** Coman G.,On the Implementation of a Robotic Assistant for the Elderly. A Novel Approach, 7th WSEAS Int. Conf. on Computational, Iintelligence Man-machine Systems and Cybernatics (CIMMACS '08)**,** Cairo,Egipt, December 29-31, 2008, pp.215-220, ISBN 978-960-474-049-9,ISSN: 1790-5117Proceedings + Book published by WSEAS Press, (**8,125p)**

37. Vasiliu G, **Filipescu A,** Stancu Al, Filipescu S, An experiment on using the Pioneer 3-DX robot in a multichannel measurement system, 8th WSEAS International Conference on Systems Theory and Scientific Computation(ISTASC'08), Rhodes (Rodos) Island, Greece, August 20-22, 2008,pp.49-55, ISBN: 978-960-8764-83-1,ISSN: 1790-3865, Published by WSEAS Press, (**8,125p)**

38. Filipescu A, Susnea I, Stancu Al, Stamatescu G, Path following, real-time, embedded fuzzy control of a mobile platform Pioneer 3-DX, 8th WSEAS International Conference on Systems Theory and Scientific Computation (ISTASC'08), Rhodes (Rodos) Island, Greece, August 20-22, 2008,pp. 136-141, ISBN: 978-960-8764-83-1,ISSN: 1790-3865, Published by WSEAS Press, (**8,125p)**

39. Filipescu A., Stancu Al**.,** Stamatescu G., On-line Parameter Estimation and Adaptive Gain Smooth Sliding Observer-Controller for Robotic Manipulator Control,6th IEEE International Conference an Control and Automation, ICCA 2007, pp.1948-1955, Guangzhou, China, 30/May-1/June/2007, Catalog number: 07EX1625C, ISBN:1-4244-0818-0, Library of Congress: 2006937560, (**10,81p)**

40. Filipescu A., Stancu A., Filipescu S., Stamatescu G.**,-** On-line Parameter Estimation in Sliding-mode Control of Pioneer 3-DX Wheeled Mobile Robot, Proceedings of the 7th WSEAS International Conference on Systems Theory and Scientific Computation ISTASC'07, pp72-77 in Vouliagmeni Beach, Athens, Greece, August 24-26, 2007 . ISSN:1790-5117, ISBN 978-960-8457-98-0, Proceedings + Book published by WSEAS Press, (**8,125p)**

41. Filipescu A., Dugard L., Dion J-M., Adaptive gain sliding observer based sliding controller for uncertain parameters nonlinear systems. Application to flexible joint robots, Proceedings of the 42ndIEEE Conference on Decision and Control, CDC03, Maui, Hawaii, USA, Dec, 2003, ISBN: 0-7803-7924-1/03/, pp.3537-3522, Editors: J. Jim Zhu and Thomas Parisini, (inpact factor=0.75, www.cnatdcu-c15.org) (**15,83p)**

42. Filipescu, A., -Robustness and alleviation of chattering by new modified update laws and sigmoid function in variable structure adaptive control, *IFAC Workshop on adaptive control and signal processing*, August, University of Strathclyde, Glasgow, Scotland, UK,1998. (Published in Proceedings Elsevier Science ISBN:0-08-043238-7,Edited by M.J.Grimble and M.A. Johnson,(**32,5p)**

43. Filipescu, A.,-Two new nonlinear modified adjustment laws for variable structure and compound robust adaptive control. Higher relative degree case.*IFAC Symposium Nonlinear Control System Design (NOLCOS98), volume 1, pp. 251-256, 1st-3rd* July, Enschede, The Netherlands, 1998. (Published in Proceedings Elsevier Science ISBN:0-08-043049-X,Edited by H.J.C. Huiberts, H. Nijmeijer and A.J.van der Schaft, (**32,5p)**

44. Filipescu, A., -Robustness in variable structure and compound adaptive by two new modified update law. *4-th IFAC Conference Systems Structure and Control*, Preprints, pp.162-167, Bucharest, Oct 1997, (Published in Proceedings Elsevier Science ISBN:0-08-043023-6,Edited by V. Ionescu and D. Popescu, (**32.5p)**

45. Filipescu, A.,-New modified update laws in robust variable structure and compound adaptive control for plant model with higher relative degree, *IFAC Conference System Structure and Control*, volume 1, pp. 215-220, 8th-10th July, Nantes, France, 1998 (Published in Proceedings Elsevier Science ISBN:0-08-043035-X,Edited by J.-F. Lafay, (**32,5p)**

46. George Petrea, Adrian Filipescu, Eugenia Minca, Adriana Filipescu, Hybrid Modelling and Simulation of a P/RML with Integrated Complex Autonomous Systems, Proceedings of the 22th IEEE, International Conference on System Theory, Control and Computing, ICSTCC2018 10-12, Oct., Sinaia, 2018, pp. 439-444, ISBN: 978-1-5386-4444-7/18/$31.00 ©2018 **(8,125p)**.

47. George Petrea, Adrian Filipescu, Razvan Solea, Adriana Filipescu, Visual servoing systems based control of complex autonomous systems serving a P/RML, Proceedings of the 22th IEEE, International Conference on System Theory, Control and Computing, ICSTCC2018 10-12, Oct., Sinaia, 2018, pp. 323-328, ISBN: 978-1-5386-4444-7/18/$31.00 ©2018 (indexata IEEE Xplore)**(8,125p).**

48. Razvan Solea, George Ciubucciu, Daniela Cernega, Adrian Filipescu, Ion Voncila, Trajectory Tracking Nonlinear Control and Narrow Spaces Navigation of a WMR, Proceedings of the 22th IEEE, International Conference on System Theory, Control and Computing, ICSTCC2018 10-12, Oct., Sinaia, 2018, pp. 329-334, ISBN: 978-1-5386-4444-7/18/$31.00 ©2018**(6,5p)**
49. Eugenia Minca, Adrian Filipescu, Heneri-George Coanda, Florin Dragomir, Otilia Elena Dragomir, Adriana Filipescu, Extended Approach for Modelling and simulation of Mechatronics Lines Served by Collaborative Mobile Robots, Proceedings of the 22th IEEE, International Conference on System Theory, Control and Computing, ICSTCC2018 10-12, Oct., Sinaia, 2018, pp. 335-341, ISBN: 978-1-5386-4444-7/18/$31.00 ©2018 **(5,41p)**
50. Florin Dragomir, Eugenia Minca, Otilia Elena Dragomir**, Adrian Filipescu,** Modelling and control of mechatronics lines served by complex autonomous systems, Sensors, Open Access, Volume 19, Issue 15, 1, Aug., 2019, ISSN: 1424-8220, DOI: 10.3390/s19153266, Document Type: Article, Article no.3266, IF 2018=3,081, 5years IF 3.302, Clasificare WoS: Q1, Instrument&Instrumentation.**(31,015p)**

FI cumulat = 1*2,962+1*0,698+1*1,02+2*0,75+44*0,25+1*3,302=20,482

A2.1.=571,685

A2.2. Articole in reviste si volumele unor manifestari stiintifice indexate in alte baze de date internationale (20/nr autori)

1. A. Filipescu, R. Solea, A. Filipescu Jr., G. Stamatescu, G. Ciubucciu Trajectory-Tracking Sliding-Mode Control of the Autonomous Wheelchair Modeled as a Nonholonomic WMR, Proceedings of the 2018 IEEE 14th International Conference on Control and Automation (ICCA) June 12-15, 2018. Anchorage, Alaska, USA pp.1168-1173, ISBN: 978-1-5386-6088-1/18/$31.00 ©2018 IEEE (indexata IEEE Xplore si SCOPUS) **(4p)**.
2. S. **Filipescu**, A. Filipescu, Speed Estimators Based Control of Permanent Magnet Syncronous MotorProceedings of the 18th IEEE, International Conference on System Theory, Control and Computing, ICSTCC2014 17-19, Oct. Sinaia, 2014, pp.897-902, ISBN 978-1-4799-4602-0 ©2014 IEEE.(indexata IEEE Xplore si SCOPUS) **(10p)**
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A2.2. =137,32p

A2.3. Proprietate intelectuala, brevete de inventie, certificare ORDA **A 2.3=0p**

A2.4. Granturi/proiecte castigate prin competitie

A2.4.1.1. Director/responsabil internationale (20 * ani de desfasurare)

1. FCT-ICCTI-NATO (ICCTI-03276) research project grant at Institute of Systems and Robotics, University of Coimbra, Portugal, Sliding-Mode Adaptive Control of Mobile Robots and Autonomous Vehicles, 15/Sep/2003-15/Mar/2004, 10000 EURO, **(10p)**
2. CNAM-NATO research project grant at Laboratoired'Automatique Grenoble, INPG, France, Adaptive and Variable Structure Control of Mechanical Systems, 01/Oct/2002-30/June/2003, 20000 EURO, **Prof. Adrian FILIPESCU director de grant cercetare internationala; (15p)**
3. CNR-NATO (No. 52 NATO research project grant Outreach Fellowships Programme, No2. Fellowship for Engineering) research fellowship grant at Department of Mechanics, Torino Polytechnics, Italy, Kinematical and Dynamical Modelling of Robotic Systems, 15/Nov/2000-15/May/200, Prof. Adrian FILIPESCU director de grant de cercetare. **(10p**)
4. *Project TEMPUS12018/97, Perspectives d'Utilisation Rationnelle de l'Energie*, Prof. Adrian FILIPESCU responsabil partener UDJG **(60p)**

A2.4.1.1.=95p

A2.4.1.2. Director/responsabil nationale (10 * ani de desfasurare)

1. **PN-III-P1-1.2-PCCDI-2017-0290, contract 78PCCDI/01.03.2018 (5-proiecte componente, 43 luni)**, Conducerea inteligentă şi distribuită a 3 sisteme autonome complexe integrate în tehnologii emergente pentru asistare personală medico-socială şi deservire de linii de fabricaţie flexibilă de precizie (CIDSACTEH) **(179p)**
2. **PN-II-PT-PCCA-2013-4-0686,** Prototipuri de sisteme robotice autonome destinate asistenței medico-sociale şi deservirii unor procese de fabricaţie din metalurgie, ceramică, sticlă si industria de automobile, **2014-2017(40p)**
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4. **A-525** proiect CNCSIS, Conducerea in Timp Real prin Tehnici Adaptive, Sliding-mode, a Manipulatoarelor Robotice si a Robotilor Mobili, 2006-2008 **(30p)**
5. **CEEX-M2-C2-PD22**, **Program postdoctoral**-Studiul si implementarea conducerii adaptive si cu structura variabila a manipulatoarelor robotice, robotilor mobili si vehiculelor autonome, 510000 RON, 2006-2008, **(20p)**
6. **PN II-ID-PCE-2007-1-641**-Conducerea adaptiva sliding-mode aplicata la manipulatoare robotice, roboti mobili, scaune cu rotile pentru persoane cu handicap locomotor si vehicule autonome electrice, 2007-2010 **(40p)**
7. **Grant CNCSU, 4007, 1996**, Sinteza unor comenzi compuse pentru conducerea adaptive si custructura variabila cu aplicatii in domeniul naval, **(10p)**

8. **Grant CNCSU, A.14, 1995,** Sisteme adaptive şi cu structura variabilă vizând conducerea avansată a navelor şi echipamentelor de bord, **(10p)**
9. **POSDRU ID 64051** Invata automatica **(30p)**

A2.4.1.2=410p

A 2.4.2.1. Membru in echipe internationale (4*ani de desfasurare)

A 2.4.2.1.=0p

A 2.4.2.2. Membru in echipe nationale (2 * ani de desfasurare)

1. **PN-III-P1-1.2-PCCDI-2017-0734 contract 72PCCDI/01.03.20182018,** Roboţii şi Societatea: Sisteme Cognitive pentru Roboţi Personali şi Vehicule Autonome **(ROBIN), (4.66p)**
2. **PN II-ID-PCE-2008-2-506 -**Studiu pentru implementarea in timp real a unui sistem hibrid pentru conducerea avansata a manipulatoarelor robotice si robotilor mobili colaborativi. **(6p);**
3. **POSDRU SIMBAD** (ID 6853) **(6p)**
4. **POSDRU EFICIENT (ID 61445) (6p)**
5. **POSDRU TOPACADEMIC (ID: 76822) (6p)**
6. **Contract nr. 23/1991, cu Ministerul Învăţământului, Faza a III-a**, Elaborarea de algoritmi şi proceduri pentru reglarea adaptivă multivariabilă, cu aplicaţii în domeniul termoenergetic şi naval, dec.1993 **(2p)*;***
7. **Contract nr. 23/1991, cu Ministerul Învatamântului, Faza a II-a-** Elaborarea de algoritmi de comutare a structurii şi de adaptare a parametrilor în regulatoarele numerice, cu aplicaţii în domeniul naval, termoenergetică şi robotică, noiembrie 1992**;(2p)**
8. **Contract nr.23/1991, cu Ministerul Învatamântului,** - Sisteme instruibile de inteligenţă artificială pentru diagnoză şi conducerea automată a proceselor, **Faza I-a,** Sinteza regulatoarelor adaptive pentru stabilizarea cursului navelor, noiembrie 1991; **(2p)**
9. **Contract nr. 60/1988, cu ICPTT Bucuresti-Faza a II-a**, Real-time, on-line identification of ship dynamics in horizontal plane, Februarie 1990**; (2p)**
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A2.4.2.2=44,66p

A2.4=549,66p

Total A2= 1258,65p

A3

A3.1. Citari in carti, reviste si volume ale unor manifestari stiintifice

A3.1.1. carti, ISI (8/nr autori art citat) Se dubleaza punctajul daca citarea provine dintr-o revista cotata ISI aflata printre primele 50% din cadrul subdomeniului de acreditare ISI din punct de vedere al factorului de impact (zonele Q1-Q2 in notatia ISI)

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1. **Backstepping based trajectory tracking control for a four-wheel mobile robot with differential-drive steering,** By: Yuyao Hao ; Jian Wang ; Sergey A. Chepinskiy ; Aleksandr J. Krasnov ; Shirong Liu, 2017 36th Chinese Control Conference (CCC), **Electronic ISSN:** 1934-1768, **INSPEC, Accession Number:** 17171648, **DOI:** 10.23919/ChiCC.2017.8028131 **(4p)**

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Technology, 25-26 November 2015, BSD City, Indonesia, ISSN: 2477-1538 **(1.33p)**

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9. **An Improved Calibration Method for a Rotating 2D LIDAR System,** By: Zeng, Yadan; Yu, Heng; Dai, Houde; et al. SENSORS Volume: 18 Issue: 2 Article Number: 497 Published: FEB 2018 **(2.66p)**
10. **Environ en Feature Recognition Algorithm for Rescue Robot Based on a 213 Laser Radar,** By: Zang, Xizhe; Zhang, Can; Liu, Yixiang; et al., Book Group Author(s): IEEE Conference: IEEE International Conference on Real-time Computing and Robotics (IEEE RCAR) Location: CAMBODIA Date: JUN 06-10, 2016 Sponsor(s): Inst Elect & Elect Engineers; IEEE Robot & Automat Soc; Shanghai Jiao Tong Univ; Natl Univ Def Technol; Harbin Inst Technol; Chinese Acad Sci, Shenzhen Inst Adv Technol; Chinese Univ Hong Kong2016 **IEEE INTERNATIONAL CONFERENCE ON REAL-TIME COMPUTING AND ROBOTICS (IEEE RCAR)** Pages: 357-361 Published: 2016 **(1,33p)**
11. **Laser Based Obstacle Avoidance Strategy for Autonomous Robot Navigation Using DBSCAN for Versatile Distance**, By: Hernandez, Danilo Caceres; Van-Dung Hoang; Jo, Kang- Hyun, Book Group Author(s): IEEE Conference: **7th International Conference on Human System Interactions (HSI)** Location: Lisbon, PORTUGAL Date: JUN 16- 18, 2014 **(1,33p)**.
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20. **Enhancing the yaw stability and the manoeuvrability of a heavy vehicle in difficult scenarios by an emergency threat avoidance manoeuvre**, By: Yakub, Fitri; Abu, Aminudin; Mori, Yasuchika, **PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART D-JOURNAL OF AUTOMOBILE ENGINEERING, ,** Volume: 231, Issue: 5, Pages:615-637, Published:APR 2017 **(2.66p)**
21. **Optimal Control for Three-axle Vehicle's All-wheel Steering**, By: Tan, Hui; Cui, ShengMin; Zhang, Kun; et al. Edited by: Zhang, H; Jin, D; Zhao, XJ, Conference: **3rd International Conference on Mechanical Engineering, Industry and Manufacturing Engineering (MEIME 2013)** Location: Wuhan, PEOPLES R CHINA Date: JUN 22-23, 2013 Sponsor(s): Int Sci & Educ Researcher Assoc; Beijing Gireida Educ Res Ctr; VIP Informat Conf Ctr **ADVANCED RESEARCH ON MECHANICAL ENGINEERING, INDUSTRY AND MANUFACTURING ENGINEERING III** Book Series: Applied Mechanics and Materials Volume: 345 Pages: 104+ Published: 2013 **(2.66p)**

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22. **Engineering Human Stigmergy**, By: Susnea, Ioan **INTERNATIONAL JOURNAL OF COMPUTERS COMMUNICATIONS & CONTROL** Volume: 10 Issue: 3 Pages: 420-427 Published: JUN 2015**(2p)**, **Cognitive Maps for Indirect Coordination of Intelligent Agents**, By: Susnea, Ioan; Axenie, Cristian STUDIES IN INFORMATICS AND CONTROL Volume: 24 Issue: 1 Pages: 111-118 Published: MAR 2015**(2p)**
23. **Enabling Self-Organization of the Educational Content in Ad Hoc Learning Networks**, By: Susnea, Ioan; Vasiliu, Grigore; Mitu, Daniela Elena, **STUDIES IN INFORMATICS AND CONTROL** Volume: 22 Issue: 2 Pages: 143-152 Published: JUN 2013**(2p)**
24. **Using Particle Filters to Find Free Obstacle Trajectories for a Kinematic Chain**, By: Reyes-Amaro, Alejandro; Mesejo-Chiong, Alejandro; Mas-Sanso, Ramon; et al.STUDIES IN INFORMATICS AND CONTROL , Volume: 22 Issue: 2 Pages: 185-193 Published: JUN 2013**(2p)**
25. **Temporal Ordering of Cancer Microarray Data through a Reinforcement Learning Based Approach**, By: Czibula, Gabriela; Bocicor, Iuliana M.; Czibula, Istvan-Gergely, **PLOS ONE** Volume: 8 Issue: 4 Article Number: e60883 Published: APR 2 2013**(2p)**
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29. **Decentralized Formation Control of Multi-agent Robot Systems based on Formation Graphs**, By: Hernandez-Martinez, Eduardo G.; Aranda-Bricaire, Eduardo **STUDIES IN INFORMATICS AND CONTROL** Volume: 21 Issue: 1 Special Issue: SI Pages: 7-16 Published: MAR 2012**.(2p)**
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A3.1.1=239,98p

A3.1.2. BDI (4/nr autori art citat)

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Total A3.1.2 =7.06p

Total A3.1. =247.04p

A3.2. Prezentari invitate in plenul unor manifestari stiintifice nationale si internationale, Profesor invitat

1. **Filipescu, A.,**Dugard, L., Dion, J-M.,.Flexible Joints robotic manipulator control by adaptive gain smooth sliding observer-controller, The 12th International symposium on Modeling, Simulation and Systems Identification, SIMSIS 12, Plenary talk, Proceedings pp.19-27, Editura Fundatiei Universitare “Dunarea de Jos” Galati, 2004, ISBN 973-627-156-0, Galati,Sep., 2004. **(10p)**
2. **Filipescu, A.,**Leite F., Nunes, U., Robust discrete-time adaptive sliding-mode WMR trajectory tracking and parameter identification, The 12th International symposium on Modeling, Simulation and Systems

Identification, SIMSIS 12, Plenary talk, Proceedings pp.28-36,,EdituraFundatieiUniversitare "Dunarea de Jos" Galati, 2004 ISBN 973-627-156-0, Galati,Sep., 2004. **(10p)**

Total A3.2 =20p

A3.3. Membru in colectivele de redactie sau comitete stiintifice al revistelor, organizator de manifestari stiintifice, internationale indexate ISI

A3.3.1 ISI (10)

Member of IFAC CC 1.- Systems and signals, TC 1.2 -Adaptive and Learning Systems and Romanian Society of Automation and Technical Informatics **(10p)**

vice-chair of International Conference on System Theory, Control and Computing, ICSTCC 2010 **(10p)**

vice-chair of International Conference on System Theory, Control and Computing, ICSTCC 2011 **(10p),**

vice-chair of International Conference on System Theory, Control and Computing, ICSTCC 2017 **(10p)**

general chair of International Conference on System Theory, Control and Computing, ICSTCC 2018 **(10p)**

IPC member of International Conference on System Theory, Control and Computing, ICSTCC 2012 (6p)

IPC member of International Conference on System Theory, Control and Computing, ICSTCC2013, (6p)

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IPC member of the International Symposium on Electrical, and Electronics Engineering, ISEEE 2013 (6p)

General Chair of International Symposium on Modelling, Simulation and System's Identification (edition 2007), Galati, Romania **(6p)**

Total A3.3.1.=98p

A.3.3=98p

A3.4. Premii in domeniu

A3.4.1. AcademiaRomana, ASTRA, academii de ramura, premii internationale **A3.4.1=0p**

A3..4.2. Premii nationale in domeniu

PN-II-RU-PRECISI-2014-8-5546 articol Control Engineering Practice in Q2 Modelling and Control of an Assembly/Disassembly Mechatronics Line Served by Mobile Robot with Manipulator **(5p)**

PN-III-P1-1.1- PRECISI-2019- 37336, articol Sensors in Q1, Modelling and control of mechatronics lines served by complex autonomous systems**,(5p)**

A3.4.2=10p

A3.4.=10p

Total A3=375.04p

Total A1+A2+A3=1834,055p

Subsemnatul FILIPESCU Adrian, profesor la Facultatea de Inginerie, Universitatea Dunărea de Jos din Galaţi, arondat Comisiei de Specialitate CNATDCU [OMENCS 6.129/2016] Nr.15, Comisia de Calculatoare si tehnologia informatiei si Ingineria sistemelor, declar pe propria răspundere, cunoscând prevederile art. 292 privind falsul în declaraţii, din Legea 286/2009 - Codul Penal, că sunt îndeplinite toate Standardele minimale prevăzute de Metodologia UDJG şi OMENCS 6129/2016 P [C+P], pentru reatestarea titlului de profesor şi abilitarea de conducere de doctorat, în momentul evaluării, şi susţin veridicitatea informaţiilor prezentate în dosar şi în materialul de mai sus. Lucrările considerate a fi incluse în Baza ISI Thomson Reuters sau în alte Baze de Date Internaţionale [BDI] sunt vizibile în aceste baze, în dreptul numelui candidatului, la această dată.

Data: 28.04.2020 **Prof. dr. ing. Adrian FILIPESCU**