



Curriculum vitae Europass



Informații personale

Nume / Prenume **Filipescu Adrian**
Adresă(e) Armata Poporului, 12 Bl, L.6, Ap. 49, 800078, Galati, Romania
Telefon(oane) +40 236 460 182 Mobil:+40 724 537 594 +40 336 130239
Fax(uri) +40 236 460 182
E-mail(uri) Adrian.Filipescu@ugal.ro, Adrian_Filipescu@yahoo.com
Naționalitate(-tăți) Romana
Data nașterii 12.02.1956
Sex Masculin

Institutia angajatoare Universitatea Dunarea de Jos din Galati

Domeniul de competenta asumat Ingineria sistemelor (IS)

Domeniul in care indruma doctorat Ingineria sistemelor

Subdomeniul in care indruma doctorat Informatica Aplicata in Automatica si Robotica

Principalele discipline predate in domeniul de competenta asumat Metode numerice, calcul paralel si distribuit-anul I, studii de licenta, programul: Automatica si Informatica Aplicata (IS-AIA)

Teoria sistemelor in abordare structurala-anul III, IS-AIA

Teoria sistemelor in abordare frecventiala-anul III, IS-AIA

Tehnici de control adaptiv si optimal-anul IV, IS-AIA

Sisteme informatice de conducere avansata a robotilor- anul I, studii de masterat, programul: Sisteme Informatice de Conducere Avansata (IS-SICA);

Conducerea avansata a sistemelor neliniare- Studii doctorale IS;

Tehnici, algoritmi si echipamente de conducere a sistemelor robotice-Studii doctorale IS

Experiența profesională

Perioada 2007-prezent

Funcția sau postul ocupat Conducator de doctorat in domeniul Ingineria Sistemelor, subdomeniul Informatica Aplicata in Automatica si Robotica. 7 teze de doctorat finalizate si validate CNATDCU, dintre care 1 in cotelata internationala

Activități și responsabilități principale Predare cursuri in programul de Pregatire Universitara Avansata, conducere activitati de cercetare in programul de Crcetare Universitara Avansata

Numele și adresa angajatorului Universitatea Dunarea de Jos din Galati, Domneasca, 47, Galati, 800008, Romania

Tipul activității sau sectorul de activitate Invatamant superior

Perioada	1999-prezent
Funcția sau postul ocupat	Profesor universitar
Activități și responsabilități principale	Dezvoltare de cursuri si laboratoare universitare, predare, cercetare, conducere doctorate
Numele și adresa angajatorului	Universitatea Dunarea de Jos din Galati, Domneasca, 47, Galati, 800008, Romania
Tipul activității sau sectorul de activitate	Invatamant superior
Perioada	2010-prezent
Funcția sau postul ocupat	Prodecan Facultatea de Automatica, Calculatoare, Inginerie Electrica si Electronica (ACIEE)
Activități și responsabilități principale	Management universitar, Dezvoltare programe de studii
Numele și adresa angajatorului	Universitatea Dunarea de Jos din Galati, Domneasca, 47, Galati, 800008, Romania
Tipul activității sau sectorul de activitate	Invatamant superior
Perioada	2004-2010
Funcția sau postul ocupat	Decan Facultatea de Stiinta Calculatoarelor
Activități și responsabilități principale	Management universitar, Dezvoltare programe de studii
Numele și adresa angajatorului	Universitatea Dunarea de Jos din Galati, Domneasca, 47, Galati, 800008, Romania
Tipul activității sau sectorul de activitate	Invatamant superior
Perioada	1994-1999
Funcția sau postul ocupat	Conferentiar universitar
Activități și responsabilități principale	Dezvoltare de cursuri si laboratoare universitare, predare, cercetare
Numele și adresa angajatorului	Universitatea Dunarea de Jos din Galati, Domneasca, 47, Galati, 800008, Romania
Tipul activității sau sectorul de activitate	Invatamant superior
Perioada	1996-2000
Funcția sau postul ocupat	Decan Facultatea de Nave si Inginerie Electrica (NIE)
Activități și responsabilități principale	Management universitar, Dezvoltare programe de studii
Numele și adresa angajatorului	Universitatea Dunarea de Jos din Galati, Domneasca, 47, Galati, 800008, Romania
Tipul activității sau sectorul de activitate	Invatamant superior
Perioada	1990-1994
Funcția sau postul ocupat	Sef lucrari
Activități și responsabilități principale	Dezvoltare de cursuri si laboratoare universitare, predare, cercetare
Numele și adresa angajatorului	Universitatea Dunarea de Jos din Galati, Domneasca, 47, Galati, 800008, Romania
Tipul activității sau sectorul de activitate	Invatamant superior
Perioada	1983-1990
Funcția sau postul ocupat	Asistent universitar
Activități și responsabilități principale	Dezvoltare de cursuri si laboratoare universitare, predare, cercetare
Numele și adresa angajatorului	Universitatea Dunarea de Jos din Galati, Domneasca, 47, Galati, 800008, Romania
Tipul activității sau sectorul de activitate	Invatamant superior
Perioada	1981-1983
Funcția sau postul ocupat	inginer
Activități și responsabilități principale	Reglaj, integrare sistem de sistem de calcul
Numele și adresa angajatorului	Fabrica de calculatoare electronice, Platforma Pipera, Bucuresti
Tipul activității sau sectorul de activitate	reglaj, integrare calculatoare Independent
Carti publicate	9
Articole publicate	112
Proiecte de cercetare nationale pe baza de contract sau grant	22, dintre care la 9 director de proiect
Proiecte internationale	4, la unul dintre ele manager partener
Proiecte POSDRU	3, la unul dintre ele manager partener

Stagii de cercetare

15/Nov/2000-15/May/2001 NATO research fellowship, Department of Mechanics, Torino Polytechnics, Italy.
01/Oct/2002-30/June/2003, NATO research fellowship, Laboratoire d'Automatique Grenoble, INPG-ENSIEG, France.
15/Sep/2003-15/Mar/2004, NATO research fellowship at Institute of Systems and Robotics, University of Coimbra, Portugal.

Activitatea de cercetare stiintifica, directii si rezultate de cercetare

Conducerea adaptiva si cu structura varibila, utilizand legi de ajustare parametrica compusa;
Conducerea sistemelor neliniare cu aplicatii la robotii mobili si manipuloare robotice;
Conducerea avansata, prin tehnici sliding-mode, a manipuloarelor robotice;
Conducerea avansata, prin tehnici sliding-mode, a robotilor mobili si vehiculelor autonome;
Conducerea avansata a scaunului cu rotile pentru persoanele cu handicap locomotor;
Conducerea liniilor de fabricatie flexibila deservite de roboti mobili echipati cu manipuloare robotice.

Educație și formare

Perioada 1990-1993

Calificarea / diploma obținută Diploma de doctor in Sisteme automate

Disciplinele principale studiate / competențe profesionale dobândite Cercetare si dezvoltare in Sisteme automate

Numele și tipul instituției de învățământ / furnizorului de formare Universitatea Dunarea de Jos din Galati, Domneasca. 47, Galati, 800008, Romania

Nivelul în clasificarea națională sau internațională ISCED 6

Perioada 1976-1981Menționați separat fiecare forma de învățământ și program de formare profesională absolvite, începând cu cel mai recent. (vezi instrucțiunile)

Calificarea / diploma obținută Diploma de inginer in domeniul electric, specializarea: Automatizari si calculatoare

Disciplinele principale studiate / competențe profesionale dobândite -Programarea calculatoarelor(limbaje de nivel inalt, limbaje de asamblare)
-Calculatoare numerice
-Teoria sistemelor
-Identificarea sistemelor
-Sisteme si echipamente de conducerea proceselor

Numele și tipul instituției de învățământ / furnizorului de formare Universitatea Politehnica Bucuresti

Nivelul în clasificarea națională sau internațională ISCED 8

Aptitudini și competențe personale

Limba(i) maternă(e) **Limba romana**

Limba(i) străină(e) cunoscută(e)

Autoevaluare

Nivel european (*)

Limba engleza

Limba franceza

Înțelegere				Vorbire				Scriere	
Ascultare		Citire		Participare la conversație		Discurs oral		Exprimare scrisă	
C2	Utilizator experimentat	C2	Utilizator experimentat	C2	Utilizator experimentat	C2	Utilizator experimentat	C2	Utilizator experimentat
B2	Utilizator independent	B2	Utilizator independent	B2	Utilizator independent	B2	Utilizator independent	B2	Utilizator independent

(*) [Nivelul Cadrului European Comun de Referință Pentru Limbi Străine](#)

Membru societati stiintifice

Experitza si evaluare

Membru SRAIT (Societatea romana de automatica si informatica tehnica)

-Expert ARACIS, Comisia Stiinte Ingineresti II, subcomisia Ingineria sistemelor
-Expert evaluator CNCS-UEFISCDI

Competențe și abilități sociale	Abilitati de lucru in echipa- dobandite prin participarea la numeroase proiecte de cercetare cu echipa de cercetare, obtinute prin competitie nationala si internationala Abilități de comunicare și de prezentare publică – dobândite prin activitatea didactică și prin participarea la numeroase conferințe și evenimente publice
Competențe și aptitudini organizatorice	Capacități organizatorice – dobândite prin coordonarea unor echipe de cercetare in calitate de director de proiect la Universitatea Dunarea de Jos din Galati; Capacități manageriale – dobândite prin functia de decan al Facultatii de Stiinta Calculatoarelor, si prodecan al Facultatii ACIEE, Universitatea Dunarea de Jos din Galati;
Competențe și aptitudini tehnice	Experiență solida in Ingineria sistemelor: modelare, identificare, proiectare sisteme de conducere, implementare in timp real, Analiza de sistem, integrare si testare.
Competențe și aptitudini de utilizare a calculatorului	Configurarea sistemelor de operare Elaborarea documentelor cu diferite pachete de aplicatii (Microsoft Office, Open Office, editoare web etc).
Competențe și aptitudini artistice	Descrieți aceste competențe și indicați contextul în care au fost dobândite. (Rubrică facultativă, vezi instrucțiunile)
Alte competențe și aptitudini	Competente in conducerea robotilor mobili cu roti motoare, scaunelor cu rotile pentru persoanele cu handicap locomotor si a vehiculelor autonome electrice
Permis(e) de conducere	Categoria B
Informații suplimentare	Referinte si recomandari ale angajatorilor sunt disponibile la cerere
Anexe	Diplomă de Doctor în Sisteme Automate Diplomă de inginer, domeniul Electric, specializarea: Automatizari si Calculatoare

Teze de doctorat conduse, finalizate si validate CNATDCU

1. Ioan Susnea - Contribuții la elaborarea unor soluții bazate pe structuri încorporate (embedded) pentru conducerea in timp real a sistemelor robotice (2010)
2. Catalin Anghel - SECURIZAREA SISTEMELOR INFORMATICE ȘI DE COMUNICAȚII PRIN CRIPTOGRAFIA CUANTICĂ (2012)
3. Adrian Radaschin - CONTRIBUȚII LA CONDUCEREA INTELIGENTĂ A ROBOȚILOR MOBILI UTILIZAȚI ÎN LINIILE FLEXIBILE DE FABRICAȚIE (2012)
4. Bogdan Dumitrascu - CONTRIBUTII LA CONDUCEREA, NAVIGAȚIA ȘI EVITAREA DE OBSTACOLE A ROBOȚILOR MOBILI ȘI VEHICULELOR AUTONOME (2012)
5. GeorgePetrea - CONTRIBUȚII LA CONDUCEREA LINIILOR DE FABRICAȚIE FLEXIBILĂ DESERVITE DE ROBOȚI MOBILI ECHIPAȚI CU MANIPULATOARE ȘI SISTEME SERVOING VIZUALE (2018)
6. George Ciubucciu - CONTRIBUȚII LA CONDUCEREA ȘI NAVIGAȚIA SISTEMELOR ROBOTICE AUTONOME DESTINATE ASISTENȚEI PERSOANELOR CU DIZABILITĂȚI ȘI DESERVIRII UNOR PROCESE DE FABRICAȚIE FLEXIBILĂ (2019)
7. Razvan Solea - SLIDING MODE CONTROL APPLIED IN TRAJECTORY-TRACKING OF WMRs AND AUTONOMOUS VEHICLES (2009) (cotutela Universitatea din Coimbra, Portugalia)

28-04-2020

Prof.dr.ing. Adrian FILIPESCU

Universitatea "Dunărea de Jos" din Galați

Domeniul fundamental: Științe Inginerești

Comisia CNATDCU: 15. Calculatoare, Tehnologia Informației și Ingineria Sistemelor

PROF. DR. ING. ADRIAN FILIPESCU

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

Condiții 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	Recunoașterea impactului activității (A3)	150	375,04 (254,02%)
TOTAL (A)		850	1834,055 (215.77%)
Condiții 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 în 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	2	13

	câștigate prin competiție (Director / Responsabil partener)		
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 Măcuță, Eugen Merticar – Mașini automate de ambalat din industria alimentară, Editura “EVRIKA”, Brăila, 199,ISBN 973-9499-80-5.**(16,66p)**

A1.1.2=158,32p

A1.2. Material didactic/Lucrari didactice

A1.2.1. Manuale didactice

1. Ceangă, E., Tusac, I., Dugan, V., Miholcă, C., **Filipescu, A.**, Mînză 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.**, Mînză 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 9th Asia 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, Yantai, China **(6,5p)**
19. **Filipescu A.**, Susnea I., Minzu V., Vasiliu G. and Filipescu S., Obstacle Avoidance and Path Following Control of 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 8th World 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) **(13,90p)**
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)**
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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 of 2009, 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)**
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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 the 13th 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, A series 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, (inprint factor=0.75, www.cnatdco-c15.org) **(15,83p)**
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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: 1790-2769 Proceedings + Book published by WSEAS, **(10,81p)**
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39. **Filipescu A.**, Stancu AI., Stamatescu G., On-line Parameter Estimation and Adaptive Gain Smooth Sliding Observer-Controller for Robotic Manipulator Control, 6th IEEE International Conference on 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)**
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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 42nd IEEE 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, (inprint factor=0.75, www.cnatdco-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)**.

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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)**

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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. Ciubuciu 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 Synchronous Motor Proceedings 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)**

3. **Filipescu Adrian**, Filipescu Adriana, Simulated Hybrid Model of an Autonomous Robotic System Integrated into Assembly/Disassembly Mechatronics Line, Proceedings of the 19th World Congress, The International Federation of Automatic Control, Cape Town, South Africa. August 24-29, 2014, pp.9223-9228, ISBN: **978-3-902823-62-5**, ISSN: **1474-6670** Copyright © 2014 IFAC, DOI:10.3182/20140824-6-ZA-1003.00556 (Indexata: Sciencedirect, Elsevier si Scopus) **(10p)** .

4. **A. Radaschin, A. Voda, E. Minca, A. Filipescu**, Task Planning Algorithm in Hybrid Assembly/Disassembly Process, 14th IFAC Conference on Information Control Problems in Manufacturing, (INCOM 2012), May 23-25, 2012, Bucharest, ISSN: 1474-6670; ISBN: 978-3-902661-98-2, pp. 571-576. (Indexata: Sciencedirect, Elsevier si Scopus), **(5p)**.
5. **Adrian Filipescu**, Silviu Filipescu, Eugenia Minca, Hybrid System Control of an Assembly/Disassembly Mechatronic Line Using Robotic Manipulator Mounted on Mobile Platform, The 7th IEEE Conference on Industrial Electronics and Applications (ICIEA2012), 18-20 July, 2012, Singapore, pp. 433-438, IEEE Catalog Number CFP 1220A-CDR, ISBN: 978-1-4577-2117-5, (Indexata IEEE Xplore si Scopus) **(6.66p)**
6. A. Voda, A. Radaschin, E. Minca, **A. Filipescu**, Control of Automatic Robot with Guided Manipulator Integrated into Flexible Manufacturing System Using Hybrid Petri Nets, IEEE International Conference on System Theory, Control and Computing, , Joint Conference SINTES 16, SACCS 12, SIMSIS 16, Proceedings of the 16th IEEE International Conference on System Theory, Control and Computing, ICSTCC2012, Sinaia, 12-14, Oct, 2012 ISBN 978-606-834-848-3, IEEE Catalog Number CFP1236P-CDR , (indexata IEEE Xplore si SCOPUS) **(5p)**
7. E. Minca, V. Stefan, **A. Filipescu**, A. Serbencu, Two Approaches in Modeling of Assembly/Disassembly Line with Integrated Manipulator Mounted on Mobile Platform, International Conference on System Theory, Control and Computing, Joint Conference SINTES 16, SACCS 12, SIMSIS 16, Proceedings of the 16th IEEE, International Conference on System Theory, Control and Computing, ICSTCC2012 12-14, Oct. Sinaia, 2012, ISBN 978-606-834-848-3, IEEE Catalog Number CFP1236P-CDR.(indexata IEEE Xplore si SCOPUS) **(5p)**
8. Adrian Radaschin, **Adrian Filipescu**, Viorel Minzu, Eugenia Minca-Adaptive disassembly sequence control by using mobile robots and system information, Proceeding of 15th IEEE International Conference in System Theory, Control and Computing, pp: 499-505, 14-16 Oct., Sinaia, Romania, 2011, ISBN: 978-973-621-323-6;.(indexata IEEE Xplore si SCOPUS) **(5p)**
9. Bogdan Dumitrascu, **Adrian Filipescu**, Viorel Minzu.; -Backstepping Control of Wheeled Mobile Robots, Proceeding of 15th IEEE International Conference in System Theory, Control and Computing, pp:206-211, 14-16 Oct., Sinaia, Romania, 2011, ISBN: 978-973-621-323-6;(indexata IEEE xplore, Scopus)**(6,66p)**
10. Dumitrascu B., **Filipescu A.**, Radaschin A., Filipescu A. Jr., Minca E.,-Discrete-Time Sliding Mode Control of Wheeled Mobile Robots, Proceedings of the 8th Asian Control Conference, pp. 771 – 776, Kaohsiung, Taiwan, China, May 16-18, 2011, ISBN: 978-1-61284-487-9, (indexata IEEE Xplore, Scopus)**(4p)**
11. **Filipescu, A.**; Minzu, V.; Dumitrascu, B.; Minca, E., Trajectory-tracking and discrete-time sliding-mode control of wheeled mobile robots, 2011 IEEE International Conference on Information and Automation, pp. 27-32, E-ISBN : 978-1-4577-0269-3, Print ISBN: 978-1-4577-0268-6, Digital Object Identifier : [10.1109/ICINFA.2011.5948958](https://doi.org/10.1109/ICINFA.2011.5948958), 6-8 June 2011, Shenzhen, China,.(indexata IEEE Xplore si SCOPUS) **(5p)**
12. Dumitrascu, B.; **Filipescu, A.**; Vasilache, C.; Minca, E.; Discrete-time sliding-mode control of four driving/steering wheels mobile platform, The Proceedings of 19th IEEE Mediterranean Conference on Control & Automation, pp. 1076 – 1081, ISBN: 978-1-4577-0124-5, Digital Object Identifier : [10.1109/MED.2011.5983167](https://doi.org/10.1109/MED.2011.5983167), 20-23 June 2011, Corfu,.(indexata IEEE Xplore si SCOPUS) **(5p)**
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14. Susnea I., **Filipescu A.**, Vasiliu G., Coman G., Radaschin A., The Bubble Rebound Obstacle Avoidance Algorithm for Mobile Robots, 2010 8th IEEE International Conference on Control and Automation,

Xiamen, China, June 9-11, 2010, pp.540-545, ISBN: 978-1-4244-5196-8, ISSN: 1948-3457/10/\$26.00 ©2010 IEEE, IEEE Catalog Number: CFP10537-CDR.(indexata IEEE Xplore si SCOPUS),(4p)

15. **Filipescu A.**, Stancu A., Filipescu S., Stamatescu G., Real-time Sliding-mode Adaptive Control of a Mobile Platform Wheeled Mobile Robot, Proceedings of the 17th World Congress, The International Federation of Automatic Control, Seoul, Korea, July 6-11, 2008, pp 4393-4399, ISBN: 978-3-902661-00-5, ID: 978-1-1234-7890-2/08/\$20.00 © 2008 IFAC, 10.3182/20080706-5-KR-1001.0881, Elsevier IFAC Publication.(Indexata Sciencedirect, Elsevier si SCOPUS) (5p)
16. **Filipescu, A.** Dugard, L., Stamatescu S., -Robots control based on parameter identification and adaptive gain smooth sliding observer-controller, 16th IFAC World Congress, Prague, July 2005, Elsevier IFAC Publication, pp.511-516 (Published in proceedings, ISBN: 0-08-045108, (indexata Sciencedirect, Elsevier) (6,66p)
17. **Filipescu, A.**, Nunes U., Stamatescu S., Discrete-time sliding mode WMR control based on parameter identification, 16th IFAC World Congress, Prague, July 2005, Elsevier IFAC Publication, pp.89-94, (Published in proceedings, ISBN: 0-08-045108, Proceedings ISI quoted, (indexata Sciencedirect, Elsevier) (6,66p)
18. **Filipescu A.**, Dugard L., Dion J-M., Smooth variable structure observer-controller with adaptive gains. Application to robot manipulators control, *European Control Conference, ECC2003*, ISBN: 978-3-9524173-7-9, pp: 2679 – 268, DOI: [10.23919/ECC.2003.7086446](https://doi.org/10.23919/ECC.2003.7086446) Cambridge, U.K., 1-4 Sept. 2003, (indexata IEEE Xplore) (6,66p)
19. O. Duca, V. Gurgu, E. Minca, A. Filipescu, F. Dragomir, O. E. Dragomir, Optimal control of the complete assembly/disassembly cycle for a mechatronics line prototype, Proceedings of the 23th IEEE, International Conference on System Theory, Control and Computing, ICSTCC2019 19-11, Oct., Sinaia, 2019, pp. 620-625, ISBN 978-1-7281-0699-1/19/\$31.00 ©2019 IEEE (IEEE xplore and SCOPUS indexed).(3,33p)
20. A. Filipescu, A. Filipescu Jr., S. Filipescu, E. Minca, - Technology on a Mechatronics Line Assisted by Autonomous Robots and Visual Servoing Systems, The 6th International Symposium on Electrical, and Electronics Engineering, ISEEE 2019, 18-19, Oct, Galati, 2019, ISBN: 978-1-7281-2906-8/19/\$31.00 ©2019 IEEE .(5p)
21. A. Filipescu, E. Minca, A. Filipescu jr, „Mechatronics Manufacturing Line with Integrated Autonomous Robots and Visual Servoing Systems”, 9th IEEE International Conference on Cybernetics and Intelligent Systems, and Robotics, Automation and Mechatronics (CIS-RAM 2019), November 18-20, 2019, Bangkok, Thailand, pp. 620-625, ISBN: 978-1-7281-3457-4, part number: CFP19835-DVD ©978-1-7281-3458-1/19/\$31.00_c 2019 IEEE.(6,66p)

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 Laboratoire d'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 și distribuită a 3 sisteme autonome complexe integrate în tehnologii emergente pentru asistare personală medico-socială și deservire de linii de fabricație flexibilă de precizie (CIDSACTEH) **(179p)**
2. **PN-II-PT-PCCA-2013-4-0686**, Prototipuri de sisteme robotice autonome destinate asistenței medico-sociale și deservirii unor procese de fabricație din metalurgie, ceramică, sticlă și industria de automobile, **2014-2017(40p)**
3. **PN-II-ID-PCE-2011-3-0641**, Conducerea avansată a sistemelor de fabricație reversibile, de asamblare și dezasamblare, utilizând roboți mobili echipați cu manipulatoare robotice **(52p)**;
4. **A-525** proiect CNC SIS, Conducerea în Timp Real prin Tehnici Adaptive, Sliding-mode, a Manipulatoarelor Robotice și a Robotilor Mobili, 2006-2008 **(30p)**
5. **CEEX-M2-C2-PD22, Program postdoctoral**-Studiul și implementarea conducerii adaptive și cu structura variabilă a manipulatoarelor robotice, robotilor mobili și vehiculelor autonome, 510000 RON, 2006-2008, **(20p)**
6. **PN II-ID-PCE-2007-1-641**-Conducerea adaptivă sliding-mode aplicată la manipulatoare robotice, roboți mobili, scaune cu rotile pentru persoane cu handicap locomotor și vehicule autonome electrice, 2007-2010 **(40p)**
7. **Grant CNC SU, 4007, 1996**, Sinteza unor comenzi compuse pentru conducerea adaptivă și cu structura variabilă cu aplicații în domeniul naval, **(10p)**
8. **Grant CNC SU, A.14, 1995**, Sisteme adaptive și cu structura variabilă vizând conducerea avansată a navelor și echipamentelor de bord, **(10p)**
9. **POS DRU ID 64051** Invata automata (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**, Roboții și Societatea: Sisteme Cognitive pentru Roboți Personali și Vehicule Autonome (**ROBIN**), **(4.66p)**
2. **PN II-ID-PCE-2008-2-506** -Studiu pentru implementarea în timp real a unui sistem hibrid pentru conducerea avansată a manipulatoarelor robotice și robotilor mobili colaborativi. **(6p)**;
3. **POS DRU SIMBAD** (ID 6853) **(6p)**
4. **POS DRU EFICIENT** (ID 61445) **(6p)**
5. **POS DRU TOPACADEMIC** (ID: 76822) **(6p)**

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A3.1.1=239,98p

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

1. Hybrid system control of an assembly/disassembly mechatronic line using robotic manipulator mounted on mobile platform

Filipescu, A. ; Filipescu, S. ; Minca, E., Industrial Electronics and Applications (ICIEA), 2012 7th IEEE Conference on Digital Object Identifier: 10.1109/ICIEA.2012.6360769, Publication Year: 2012 , Page(s): 447 - 452

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2. Trajectory-tracking and discrete-time sliding-mode control of wheeled mobile robots, Filipescu, A. ; Minzu, V. ; Dumitrascu, B. ; Filipescu, A. ; Minca, E., Information and Automation (ICIA), 2011 IEEE International Conference on Digital Object Identifier: 10.1109/ICINFA.2011.5948958, Publication Year: 2011 , Page(s): 27 - 32

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1. Ou, M. Y., H. B. Sun, and S. H. Li. "Finite time tracking control of a nonholonomic mobile robot with external disturbances." Proceedings of the 31st Chinese Control Conference.**(0.8p)**

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5. New Approach in Control of Assembly/Disassembly Line Served by Robotic Manipulator Mounted on Mobile Platform, Minca, E; Filipescu, A. Voda, A, 2012 IEEE INTERNATIONAL CONFERENCE ON ROBOTICS AND BIOMIMETICS (ROBIO 2012) Published: 2012, Accession Number: WOS:000321004000046, IEEE International Conference on Robotics and Biomimetics (ROBIO2012), DEC 11-14, 2012, ISBN: 978-1-4673-2127-3, ISBN: 978-1-4673-2125-9

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6. Laser-based obstacle avoidance algorithm for four driving/steering wheels autonomous vehicle, B Dumitrascu, A Filipescu, G Petrea, S Filipescu, Eugenia MINCA, Alina Voda, 2013/10/11 , 2013 17th International Conference Conference System Theory, Control and Computing (ICSTCC), , Pages 187-192
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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)

IPC member of International Conference on System Theory, Control and Computing, ICSTCC 2014, (6p)

IPC member of International Conference on System Theory, Control and Computing, ICSTCC 2015, (6p)

IPC member of International Conference on System Theory, Control and Computing, ICSTCC 2016, (6p)

IPC member of International Conference on System Theory, Control and Computing, ICSTCC 2019, (6p)

IPC member of the International Symposium on Electrical, and Electronics Engineering, ISEEE 2019 (6p)

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 Galați, 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 declarații, din Legea 286/2009 - Codul Penal, că sunt îndeplinite toate Standardele minimale prevăzute de Metodologia UDJG și OMENCS 6129/2016 P [C+P], pentru reatestarea titlului de profesor și abilitarea de conducere de doctorat, în momentul evaluării, și susțin veridicitatea informațiilor prezentate în dosar și în materialul de mai sus. Lucrările considerate a fi incluse în Baza ISI Thomson Reuters sau în alte Baze de Date Internaționale [BDI] sunt vizibile în aceste baze, în dreptul numelui candidatului, la această dată.

Data: 28.04.2020

Prof. dr. ing. Adrian FILIPESCU



Articole publicate 2003-2020

1. **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 42nd IEEE 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(Proceedings ISI quoted, www.ieeexplore.ieee.org).
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3. **Filipescu, A.**, Nunes U., Stamatescu S., Discrete-time sliding mode WMR control based on parameter identification, 16th IFAC World Congress, Prague, July 2005, Elsevier IFAC Publication, pp.89-94, (Published in proceedings, ISBN:0-08-045108, Proceedings ISI quoted, <http://www.ifac-papersonline.net/Detailed/28240.html>, BDI: www.elsevier.com).
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14. 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 (http://apps.isiknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=1&SID=S26PaJfEdEb@8Ho@jhl4&page=2&doc=11, www.wseas.org, www.worldses.org/indexes).
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Lista proiectelor și granturilor de cercetare naționale ca director:

1. **PN-III-P1-1.2-PCCDI-2017-0290, contract 78PCCDI/01.03.2018**, Conducerea inteligentă și distribuită a 3 sisteme autonome complexe integrate în tehnologii emergente pentru asistare personală medico-socială și servirea de linii de fabricație flexibilă de precizie (CIDSACTEH), www.cidsacteh.ugal.ro
2. **PN-II-PT-PCCA-2013-4-0686**, Prototypes of autonomous robotic systems for medical/social assistance and servicing of manufacturing processes in metallurgy, ceramics, glass and automotive, 2014-2017, ProRobSis, www.prorobsis.ugal.ro
3. **PN-II-ID-PCE-2011-3-0641**, Advanced control of reversible manufacturing systems of assembling and disassembling using wheeled mobile robots equipped with robotic manipulators, 2011-2016;
4. **PN II-ID-PCE-2007-1-641**-Sliding-mode adaptive control applied to robotic manipulators, wheeled mobile robots, wheelchairs and electric autonomous vehicles, 2007-2010.
5. **CEEX-M2-C2-PD22**, -Study and implementation of adaptive and variable structure control applied to robotic manipulators, wheeled mobile robots and autonomous vehicles, 2006-2008.
6. **A-525 proiect CNCSIS**, Real-time, adaptive, sliding-mode control of robotic manipulator and mobile robots, 2006-2008.
7. **Grant CNCSU, 4007, 1996**, Sinteza unor comenzi compuse pentru conducerea adaptivă și cu structura variabilă cu aplicații în domeniul naval,
8. **Grant CNCSU, A.14, 1995**, Sisteme adaptivă și cu structura variabilă vizând conducerea avansată a navelor și echipamentelor de bord
9. **POSDRU ID 64051** Invata automatica

Director/responsabil internațional :

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.
2. CNAM-NATO research project grant at Laboratoire d'Automatique Grenoble, INPG, France, Adaptive and Variable Structure Control of Mechanical Systems, 01/Oct/2002-30/June/2003.
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/2001,
4. Project TEMPUS12018/97, Perspectives d'Utilisation Rationnelle de l'Energie, 1997-2000.

Membru în echipe naționale :

1. **PN-III-P1-1.2-PCCDI-2017-0734 contract 72PCCDI/01.03.20182018**, Roboții și Societatea: Sisteme Cognitive pentru Roboți Personali și Vehicule Autonome (**ROBIN**)
2. **PN II-ID-PCE-2008-2-506** -Studiu pentru implementarea în timp real a unui sistem hibrid pentru conducerea avansată a manipuletoarelor robotice și roboților mobili colaborativi;
3. **POSDRU SIMBAD (ID 6853)**
4. **POSDRU EFICIENT (ID 61445)**
5. **POSDRU TOPACADEMIC (ID: 76822)**
6. **Contract nr. 23/1991, cu Ministerul Învățământului, Faza a III-a**, Elaborarea de algoritmi și proceduri pentru reglarea adaptivă multivariabilă, cu aplicații în domeniul termoelectric și naval, dec.1993;
7. **Contract nr. 23/1991, cu Ministerul Învățământului, Faza a II-a**- Elaborarea de algoritmi de comutare a structurii și de adaptare a parametrilor în reglatoarele numerice, cu aplicații în domeniul naval, termoelectrică și robotică, noiembrie 1992;
8. **Contract nr.23/1991, cu Ministerul Învățământului**, - Sisteme instruibile de inteligență artificială pentru diagnoză și conducerea automată a proceselor, **Faza I-a**, Sinteza reglatoarelor adaptivă pentru stabilizarea cursului navelor, noiembrie 1991;
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;
10. **Contract nr. 60/1988, cu ICPTT Bucuresti**- Elaborarea, testarea, validarea algoritmilor și programelor de conducere adaptivă pentru pilot automat computerizat destinat navelor maritime, **Faza I-a**,

Identificarea off-line a dinamicii navei, elaborarea softului și a hardului pentru conducerea navei în marș și manevră, oct., 1989;

11. **Contract nr. 51/1987, cu ICA București** - Simularea proceselor de biosinteza din industria alimentara în vederea optimizării parametrilor biotehnologici și conducerea acestora pe calculator, dec., 1988
12. **Contract nr. 8/1986, cu ICA București** - Elaborarea modelului matematic al procesului de biosinteza a alfaamilazei și proteazei bacteriene, **Faza I-a**, oct., 1987
13. **Contract nr. 31/1984, cu FEPER Bucuresti**- Elaborarea unui pachet de programe de proiectare asistată de calculator a formelor navei prin utilizarea sistemului Diagram 2030, **Faza a II-a**, Programe de cuplare a imprimantei grafice ICT800 la microcalculatorul TPD și pachet de programe interactiv pentru desenarea structurilor navale, oct.1986.

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Prof.dr.ing. Adrian FILIPESCU

