

CURRICULUM VITAE

INFORMATII PERSONALE

Nume Aileni Raluca Maria

Telefon

E-mail

Nationalitate(-tati) Romana

Experienta profesionala

Perioada (de la - pana la) 2020 - prezent

Numele si adresa angajatorului INCDTP

Functia sau postul ocupat Sef Departament Cercetare Ingineria Materialelor si Proceselor Textile, CS II Dr. Ing.

Principalele activitati si responsabilitati -coordonare activitate de CDI la nivelul Departamentului Cercetare Ingineria Materialelor si Proceselor Textile

Perioada (de la - pana la) 2013-2020

Numele si adresa angajatorului INCDTP

Functia sau postul ocupat CS III Dr. Ing.

Principalele activitati si responsabilitati
-elaborare studii de cercetare stiintifica;
-redactare lucrari de cercetare stiintifica pentru manifestari stiintifice nationale/internationale si jurnale stiintifice;
-elaborare propuneri proiecte de cercetare;
-documentare stiintifica;
-realizare experimentari de laborator.

EDUCATIE SI FORMARE

Perioada (de la - pana la) 2021-2023

Numele si tipul institutiei de invatamant prin care s-a realizat formarea profesionala Universitatea din București, Facultatea de Matematică și Informatică

Domeniul studiat / aptitudini ocupationale Data mining, Baze de date, Tehnologii Software, Big Data, Aplicatii Web, Tehnici de optimizare

Tipul calificarii / diploma obtinuta Va fi obtinuta diploma de Master in anul 2023

Nivelul de clasificarea formei de instruire/ invatamant in sistemul national sau international Studii postuniversitare
Invatamant superior in sistemul national

Perioada (de la - pana la) 2017-2019

Numele si tipul institutiei de invatamant prin care s-a realizat formarea profesionala Universitatea Politehnica Bucuresti, Facultatea de Electronica, Telecomunicatii si Tehnologia Informatiei

Domeniul studiat / aptitudini ocupationale	Electronica si informatica medicala/ microelectronica si nanoelectronica in medicina, senzori, informatica medicala, sisteme ambientale inteligente, electronica medicala, analiza semnalelor vocale, metode avansate de procesare a semnalelor, biometrie, imagistica medicala, tehnici avansate de analiza si prelucrare a semnalelor medicale, brain computer interface, prelucrarea si analiza imaginilor medicale, programare microcontrolere
Tipul calificarii / diploma obtinuta	-Master
Nivelul de clasificarea formei de instruire/ invatamant in sistemul national sau international	Studii postuniversitare Invatamant superior in sistemul national
Perioada (de la - pana la)	2014-prezent
Numele si tipul institutiei de invatamant prin care s-a realizat formarea profesionala	Universitatea Politehnica Bucuresti, Facultatea de Electronica, Telecomunicatii si Tehnologia Informatiei
Domeniul studiat / aptitudini ocupationale	Senzori biomedicali, programare microcontrolere, electronica, tehnologia informatiei, senzori, sisteme de monitorizare medicala bazate pe senzori wearable, cloud computing, procesare semnale analogice si digitale
Tipul calificarii / diploma obtinuta	-in curs de obtinere Diploma de Doctor in Electronica si Telecomunicatii
Nivelul de clasificarea formei de instruire/ invatamant in sistemul national sau international	Studii postuniversitare Invatamant superior in sistemul national
Perioada (de la - pana la)	2015
Numele si tipul institutiei de invatamant si al organizatiei profesionale prin care s-a realizat formarea profesionala	Mons University, Belgium
Domeniul studiat / aptitudini ocupationale	microelectronica, software, discretizare semnale analogice, senzori inteligenti
Tipul calificarii / diploma obtinuta	Bursa doctorala de excelenta
Nivelul de clasificarea formei de instruire/ invatamant in sistemul national sau international	Studii postuniversitare Invatamant superior in sistemul national
Perioada (de la - pana la)	2013
Numele si tipul institutiei de invatamant si al organizatiei profesionale prin care s-a realizat formarea profesionala	Reteaua Nationala pentru Inovare si Transfer Tehnologic ReNITT, Institutul IRECSON
Domeniul studiat / aptitudini ocupationale	Managementul proiectelor de cercetare stiintifica
Tipul calificarii / diploma obtinuta	Diploma de absolvire curs Manager de Proiect
Perioada (de la - pana la)	2013
Numele si tipul institutiei de invatamant si al organizatiei profesionale prin care s-a realizat formarea profesionala	Reteaua Nationala pentru Inovare si Transfer Tehnologic ReNITT, Institutul IRECSON
Domeniul studiat / aptitudini ocupationale	Inovare, cercetare, managementul inovarii
Tipul calificarii / diploma obtinuta	Diploma de absolvire curs Manager de Inovare

Perioada (de la - pana la)	2013
Numele si tipul institutiei de invatamant si al organizatiei profesionale prin care s-a realizat formarea profesionala	Reteaua Nationala pentru Inovare si Transfer Tehnologic ReNITT, Institutul IRECSO
Domeniul studiat / aptitudini ocupationale	Managementul sistemelor de calitate, audit intern pe sisteme informatice
Tipul calificarii / diploma obtinuta	Diploma de absolvire curs Manager al sistemelor de management al calitatii
Perioada (de la - pana la)	2011-2015
Numele si tipul institutiei de invatamant prin care s-a realizat formarea profesionala	Universitatea „Al. I. Cuza” Iasi, Facultatea de Informatica
Domeniul studiat / aptitudini ocupationale	Informatica proiectare algoritmi avansati, grafuri, calcul numeric, retele de calculatoare (server side programming), securitatea informatiei, baze de date, grafica pe calculator OpenGL, programare C, C++, C#, programare web, inteligenta artificiala, calcul numeric, modelare matematica si optimizare, inginerie software, arhitectura hardware, proiectare compilatoarelor, limbaje formale automate, algoritmi genetici, retele neuronale, programare in MATLAB
Tipul calificarii / diploma obtinuta	Licentiat in Informatica/ Diploma de licenta
Nivelul de clasificarea formei de instruire/ invatamant in sistemul national sau international	Studii universitare Invatamant superior in sistemul national
Perioada (de la - pana la)	2012
Numele si tipul institutiei de invatamant si al organizatiei profesionale prin care s-a realizat formarea profesionala	Proiect strategic ID 63270 -POSDRU- “Dezvoltarea inovatiei, creativitatii, responsabilitatii si sustenabilitatii antreprenoriatului strategic romanesc”, Iasi (Romania)
Domeniul studiat / aptitudini ocupationale	managementul proiectelor - initiere, dezvoltare, pachete de informatii, implementare
Tipul calificarii / diploma obtinuta	Diploma de absolvire curs de manager de proiect
Perioada (de la - pana la)	2012
Numele si tipul institutiei de invatamant si al organizatiei profesionale prin care s-a realizat formarea profesionala	Proiect POSDRU - "EDU TEHNIC FORMA PLUS", Iasi (Romania)
Domeniul studiat / aptitudini ocupationale	management, psihologie, dobandirea abilitatilor de trainer
Tipul calificarii / diploma obtinuta	Diploma de formator, absolvire curs "Formare de Formatori"
Perioada (de la - pana la)	2008-2011
Numele si tipul institutiei de invatamant si al organizatiei profesionale prin care s-a realizat formarea profesionala	Universitatea Gheorghe Asachi din Iasi, Facultatea de Textile Pielarie si Management Industrial
Domeniul studiat / aptitudini ocupationale	Scanare 3D, modelare 3D, simulare in mediu virtual, programare web, aplicatii desktop, studiu structura textila utilizand sistemul KES Kawabata, 2D-3D design concept, calcul numeric
Tipul calificarii / diploma obtinuta	Doctor in Inginerie Industriala

Nivelul de clasificarea formei de instruire/ invatamant in sistemul national sau international	Studii postuniversitare Invatamant superior in sistemul national
Perioada (de la - pana la)	2010-2011
Numele si tipul institutiei de invatamant si al organizatiei profesionale prin care s-a realizat formarea profesionala	Universitatea Gheorghe Asachi din Iasi, Departamentul pentru Pregatirea Personalului Didactic
Domeniul studiat / aptitudini ocupationale	Formare psihopedagogica psihologia educatiei, managementul proiectelor educationale, managementul clasei de elevi, pedagogie, tehnologia informatiei in educatie.
Tipul calificarii / diploma obtinuta	Diploma de absolvire a modulelor psihopedagogice I+II pentru formare psihopedagogica pentru invatamant universitar
Nivelul de clasificarea formei de instruire/ invatamant in sistemul national sau international	Studii postuniversitare Invatamant superior in sistemul national
Perioada (de la - pana la)	2010
Numele si tipul institutiei de invatamant si al organizatiei profesionale prin care s-a realizat formarea profesionala	University of Lille, ENSAIT, Lille, France
Domeniul studiat / aptitudini ocupationale	Scanare 3D, 2D - 3D design concept, realizare avatar in mediu virtual utilizand RapidForm, modelare 3D, evaluari fizico-mecanice utilizand sistemul KES pentru obtinerea parametrilor necesari simularii modelului panza in mediu virtual
Tipul calificarii / diploma obtinuta	Certificat de studii mobilitate -doctorala
Nivelul de clasificarea formei de instruire/ invatamant in sistemul national sau international	Studii postuniversitare Invatamant superior in sistemul national
Perioada (de la - pana la)	2007-2008
Numele si tipul institutiei de invatamant si al organizatiei profesionale prin care s-a realizat formarea profesionala	Universitatea Gheorghe Asachi din Iasi, Facultatea de Textile Pielarie si Management Industrial
Domeniul studiat / aptitudini ocupationale	design, proiectare tipare, tehnologii textile si masini utilizate in industria textila
Tipul calificarii / diploma obtinuta	Diploma de Master
Nivelul de clasificarea formei de instruire/ invatamant in sistemul national sau international	Studii postuniversitare Invatamant superior in sistemul national
Perioada (de la - pana la)	2004-2007
Numele si tipul institutiei de invatamant prin care s-a realizat formarea profesionala	Universitatea Gheorghe Asachi din Iasi, Facultatea de Textile Pielarie si Management Industrial
Domeniul studiat / aptitudini ocupationale	Domeniul Ingineria Produselor Textile si din Piele, specializarea Tehnologia Tricotajelor si Confecțiilor
Tipul calificarii / diploma obtinuta	Diploma de Inginer Diplomat
Nivelul de clasificarea formei de instruire/ invatamant in sistemul national sau international	Studii postuniversitare Invatamant superior in sistemul national

**APTITUDINI SI COMPETENTE
PERSONALE**

dobandite in cursul vietii si carierei
dar care nu sunt recunoscute
neaparat printr-un certificat sau
diploma

Limba(ile) materna(e)

Limba(ile) straina(e) cunoscuta(e)

abilitatea de a citi

abilitatea de a scrie

abilitatea de a vorbi

Aptitudini si competente artistice

Muzica, desen, literatura etc.

**Aptitudini si competente si
sociale**

**Aptitudini si competente
organizatorice**

De exemplu coordonati sau
conduceti activitatea altor
persoane, proiecte si gestionati
bugete; la locul de munca in
actiuni voluntare (de exemplu in
domeniul culturale sau sportive) sau
la domiciliu.

Aptitudini si competente tehnice

(utilizare calculator, anumite
tipuri de echipamente, masini
etc.)

Permis(e) de conducere

Alte aptitudini si competente
Competente care nu au mai fost
mentionate anterior

Anexa I

Anexa II

Anexa III

romana

engleza	franceza	Germana
bine	satisfacator	satisfacator
bine	satisfacator	satisfacator
bine	satisfacator	satisfacator

desen

-

-coordonare si conducere proiecte: Erasmus+ TEXSTRA
(2017-2020), Erasmus+ DigiTEX (2021-2023);
-responsabil proiecte (2017-2022);
-realizare propuneri de proiecte de cercetare;

-Grafica si web design, Dreamweaver, 3D Max Studio, Autocad,
Matlab, Mudbox, Rapidform, Blender, Photoshop, Lectra, Gemini,
Investronica, Optitex, Design Concept, Poser, Daz3D, Matlab.
-Baze de date: Mysql, SQL-Oracle, Acces;
-Dezvoltare Web: XHTML/HTML, XML, JQuery, VML, PHP,
Javascript;
-Limbeje de programare: C#, VB, C, C++;
-SO: Linux Fedora, Suse, Microsoft Windows Systems; Microsoft
Office; Open Office; LaTeX.

Categoria B

capacitate de analiza, comunicare buna, orientare spre gasirea
solutiilor optime

Lista de lucrări științifice

Cursuri urmate

Brevete și premii

Anexa I

Lista de lucrari:

1. Aileni, R.M., Chiriac, L., Toma, D., Sandulache, I. Multivariate Correlation Analysis of the Electroconductive Textiles Obtained Using Functionalization by Radio-Frequency Oxygen Plasma Treatments. *Materials* 2021, 14, 5609, **IF 3.623**, DOI: 10.3390/ma14195609.
2. Aileni, R.M., Toma, D. and Chiriac, L., 2021. Statistical analysis of the 3D electroconductive composites based on copper and graphene. *Industria Textila*, 72(2), pp.149-155, **0.784**.
3. Aileni, R.M., Radulescu, R.I. and Chiriac, L., 2021. A new perspective in e-learning training toolkit development for advanced textile research centres in Morocco and Jordan. *Industria Textila*, 72(5), pp.569-578, **0.784**.
4. Aileni R.M., Chiriac L., Accesibility and Usability of the Learning Tools to Accelerate Innovation in the Field of Smart Materials Development, in *TexTeh Proceedings 2021*, pp.328-333
5. Aileni R.M., Chiriac L., Role of the e-Learning Courses for Capacity Building in the field of Advanced Materials Development, in *TexTeh Proceedings 2021*, pp.314-320.
6. Aileni R.M., Chiriac L., Correlative and covariance analysis of the electroconductive fabrics, in *TexTeh Proceedings 2021*, pp.300-307.
7. Aileni R.M., Chiriac L., Sandulache I., Conductive membranes for sensors, in *Proceedings of the 4th International Conference on Emerging Technologies in Materials Engineering, noiembrie 2021, Bucuresti*.
8. Aileni R. M., Chiriac L., Sandulache I., Analysis of surface resistance for conductive textile obtained through ultrasonic treatments with graphene oxide dispersions, in the 4th International Conference on Emerging Technologies in Materials Engineering, noiembrie 2021, Bucuresti.
9. Aileni, R.M., Chiriac, L., Albici, S., Sandulache, I.M., Neagu, V. and Raducu, L., 2020. Multivariate analysis of the 3D composites based on nickel microparticles. *Industria Textila*, 71(5), pp.446-451, **IF 0.784**.
10. Aileni, R.M., Chiriac, L., Surdu, L. and Radulescu, R.I., Field research and methodologies for textile industry innovation in the context of European economy, *Industria Textila*, 71(1), 2020, pp.12-16, **IF 0.784**.
11. Aileni R.M., Chiriac L., Enhancing the conductive properties of the textile surfaces for electrodes or EM shields development by low-pressure RF plasma O₂, in *Proceedings of the International Symposium on Fundamentals of Electrical Engineering (ISFEE 2020)*, 2020, Bucharest, Romania.
12. Aileni, R.M., Chiriac, L., Albici, S. and Sandulache, I.M., 2020. Multivariate regression analysis of the 3D composites with electroconductive properties for sensors. *Industria Textila*, 71(4), pp.334-339, **IF 0.784**.
13. Aileni, R.M., Pasca, S., Florescu, A., EEG-Brain Activity Monitoring and Predictive Analysis of Signals Using Artificial Neural Networks, *Sensors* 2020, 20, 3346, **IF 3.275**, doi:10.3390/s20123346
14. Aileni R. M., Pasca S. and Florescu A., Epileptic Seizure Classification based on Supervised Learning Models, 2019 11th International Symposium on Advanced Topics in Electrical Engineering (ATEE), Bucharest, Romania, 2019, pp. 1-4, doi: 10.1109/ATEE.2019.8725004.
15. Aileni R. M., Suci G., Valderrama C., Pasca S., Strungaru R., Martian A., IoT Perspective by Data Anonymization for Wearable Medical Devices, *Fabulous 2017 Future Access Enablers of Ubiquitous and Intelligent Infrastructures*, October 2017, Bucharest
16. Aileni R. M., Pasca S. and Florescu A., E-Health Monitoring by Smart Pulse Oximeter Systems Integrated in SDU, 2019 11th International Symposium on Advanced Topics in Electrical Engineering (ATEE), Bucharest, Romania, 2019, pp. 1-4, doi: 10.1109/ATEE.2019.8724865.
17. Aileni R. M., Chiriac L., Surdu L., Radulescu R. I., Field research and methodologies for textile industry innovation in the context of European economy, *Industria Textila*, vol. 71, nr. 1, 2020, pp. 12-16, **IF 0.784**.
18. Aileni R. M., Radulescu R. I., Chiriac L., Surdu L., Life cycle assessment of the electroconductive textiles functionalized by advanced technologies (plasma) and metallic micro/nanoparticles deposition, *Industria Textila*, vol.70, nr. 3, 2019, pp. 205-210, **IF 0.784**.
19. Aileni R. M., Chiriac L., Albici S., Subtirica A., Dinca L. C., Aspects of the hydrophobic effect sustainability obtained in plasma for cotton fabrics, *Industria Textila*, vol.70, nr.3, 2019, pp. 223-228, **IF 0.784**.

20. Aileni R. M., Albici S., Dinca L., Surdu L., Bivariate analysis of the hydrophobic textiles obtained by plasma treatment, vol. 70, nr. 6, 2019, pp. 527-532.
21. Aileni R. M., Chiriac L., Perdum E., Mitran E. C., Surdu L., Aspects concerning the mathematical distribution of metal microparticles on the textile surfaces with electroconductive properties obtained by printing method, *Industria Textila*, vol. 70, nr. 6, 2019, pp.533-537, IF 0.784.
22. Aileni R. M., Chiriac L., Multivariate analysis of the parameters that influence the EMR absorption/shielding of the textile surface coated using nickel/graphite/copper microparticle, *Buletinul AGIR (Special Issue - Technical Textile - Present and Future Symposium Iasi, 15.11.2019)*, nr. 4, 2019.
23. Aileni R. M., Chiriac L., Perspectives in using of the 3D textile composites to produce rechargeable batteries, *Buletinul AGIR (Special Issue - Technical Textile - Present and Future Symposium Iasi, 15.11.2019)*, nr. 4, 2019.
24. Surdu L., Aileni R. M., Radulescu Ra. I., Chiriac L., Research regarding electromagnetic shielding achieved by the fabrics support, *IOP Conference Series: Materials Science and Engineering (ITMC 2019, Marrakeck, Morocco)* vol. 827, nr. 1, p. 012037, IOP Publishing.
25. Aileni R. M., Chiriac L., Surdu L., The predictive development of the electroconductive textile using artificial neural network, *IOP Conference Series: Materials Science and Engineering (ITMC 2019, Marrakeck, Morocco)*, vol. 827, nr. 1, p. 012037, IOP Publishing.
26. Aileni R. M., Chiriac L., Research on designing composite techniques for obtaining the 3d hybrid composites with conductive and semiconductive properties for sensors and actuators, *International Conference TexTeh IX, October 24-25, 2019, Bucharest, Romania*, pp. 196-199.
27. Aileni R. M., Chiriac L., Composed techniques for obtaining of the 3d hybrid composites for attenuation of electromagnetic field, *International Conference TexTeh IX, October 24-25, 2019, Bucharest, Romania*, pp. 208-211.
28. Aileni R. M., Mihai C., Heat transfer modeling through 3D nonwoven structures for thermal insulation in construction, poster, p.214, 9th International Conference on Materials Science & Engineering (BRAMAT), 5-7 March 2015, Brasov, Romania
29. Aileni R. M., Ene A., Nonwoven wool panel optimization in the context of controlled heat flow for buildings insulation, poster, p.223, 9th International Conference on Materials Science & Engineering (BRAMAT), 5-7 March 2015, Brasov, Romania
30. Aileni R.M., Radulescu R., Chiriac L., Surdu L., The Inventory of the Life Cycle for Textile Processes Involved in Obtaining Antistatic Surface, *ICAMS International Conference, Bucharest, Romania 2018*
31. Aileni R.M., Radulescu R., Chiriac L., Life Cycle Inventory Analysis for Conductive Textile Based on Hydrophobic and Hydrophilic Surfaces, *ICAMS International Conference, Bucharest, Romania 2018*
32. Aileni R.M., Radulescu R. I., Chiriac L., Functionalization of textile materials by plasma technology for metallic microparticles deposition, *Annals of the University of Oradea. Fascicle of Textiles, 2018*
33. Aileni R.M., Chiriac L., Radulescu R. I., Innovative aspects regarding UHF waves used in textile functionalization, *Annals of the University of Oradea. Fascicle of Textiles, 2018*
34. Aileni R. M., Hurezeanu B., Pasca S., Wavelet Transform for Seizures Detection in EEG Records, *ECAI 2018 INTERNATIONAL CONFERENCE, 10th Edition Electronics, Computers and Artificial Intelligence, 28 June-30 June 2018, Iasi, Romania*
35. Aileni R. M., Suci G., Pasca S., MIoT Applications for Wearable Technologies Used for Health Monitoring, *ECAI 2018 INTERNATIONAL CONFERENCE, 10th Edition Electronics, Computers and Artificial Intelligence, 28 June-30 June 2018, Iasi, Romania*
36. Aileni R. M., Suci G., Valderrama C., Pasca S., Strungaru R., Martian A., IoT Perspective by Data Anonymization for Wearable Medical Devices, *Fabulous 2017 Future Access Enablers of Ubiquitous and Intelligent Infrastructures, October 2017, Bucharest*
37. Aileni R. M., Radulescu R., Chiriac L., Subtirica A., Surdu L., Systemic analyze by life cycle inventory of the hydrophobization unit processes for textiles, *Conferinta Internationala "Innovative solutions for sustainable development of textiles and leather industry", Oradea, 2017*
38. Aileni R.M., Chiriac L., Dinca L., Radulescu R., Surdu L., Multivariate analysis of the physico mechanical parameters variation for hydrophobic textile, *Conferinta Internationala "Innovative solutions for sustainable development of textiles and leather industry", Oradea, 2017*

39. Aileni R.M., Satulu V., Mitu B., Dinca L.C., Radulescu I.R., Surdu L., Textile surface hydrophobization by Plasma Vapor Deposition (PVD) using magnetron sputtering, Conferința Internațională TexTeh VIII "CREATING THE FUTURE OF TEXTILES", București, Romania, 2017
40. Aileni R. M., Radulescu I. R., Dinca L.C., Surdu L., Aspects regarding life cycle inventory for textile hydrophobized by plasma technology, Conferința Internațională TexTeh VIII "CREATING THE FUTURE OF TEXTILES", București, Romania, 2017
41. Surdu L., Aileni R.M., Radulescu I. R., Chiriac L., Subtirica A., Analiza inventarului ciclului de viață pentru materiale textile hidrofobizate în plasma, Workshop "INCDTP - De la idee și concept la prototipuri și exemplare comerciale", București, 2017
42. Aileni R.M., Pasca S., Strungaru R., Valderrama C., Biomedical Signal Acquisition for Respiration Monitoring by Flexible Analog Wearable Sensors, The 6th IEEE International Conference on E-Health and Bioengineering - EHB 2017, 22-24 June, Sinaia, Romania.
43. Aileni R.M., Pasca S., Strungaru R., Heart rate monitoring by using non-invasive wearable sensor, The 6th IEEE International Conference on E-Health and Bioengineering - EHB 2017, 22-24 June, Sinaia, Romania.
44. Aileni R.M., Pasca S., Strungaru R., Wearable platform for cardiac rhythm monitoring and signal processing, ECAI 2017 INTERNATIONAL CONFERENCE 9th Edition Electronics, Computers and Artificial Intelligence, 29 June-01 July 2017, Targoviste, ROMANIA
45. Aileni R.M., Strungaru R., Pasca S., Valderrama C., Big data analytics for sensors signal processing in healthcare, Cost Action - Winter School & PhD Symposium, 2017, Calabria, Vibo Valentia, Italy.
46. Aileni R.M., Dinca L, Pasca S., Strungaru R., Flexible material for wearable ECG electrodes, 5th edition of the International Colloquium 'Physics of Materials' - PM-5, Bucharest, Romania.
47. Aileni R.M., Dinca L., Mancasi I., Analysis of thermal behaviour for a polyester fabric, waterproof breathable laminated, using skin model based on sensor, 5th edition of the International Colloquium 'Physics of Materials' - PM-5, Bucharest, Romania.
48. Aileni R.M., Valderrama C., Pasca S., Strungaru R., Sympathetic skin response analysis using exosomatic method, biomedical sensors and clustering technique, International Conference ROLCG 2016, Bucharest, Romania
49. Aileni R.M., Pasca S., Strungaru R., Big data predictive analytics for bioheat transfer modelling, International Conference ROLCG 2016, Bucharest, Romania.
50. Aileni R. M., Valderrama C., Pasca S., Strungaru R., Skin conductance analysing in function of the bio-signals monitored by biomedical sensors, ISFEE International Symposium IEEE, 2016, Bucharest, Romania.
51. Filip I., Farima D., Priniotakis G., Ciocoiu M., Aileni R. M., Optimizing the functionality of the willowing machine regarding recoverable materials, Industria Textila, vol. 67, nr.1, pp. 71-77, 2016.
52. Aileni R. M., Pasca S., Valderrama C., Cloud computing for big data from biomedical sensors monitoring, storage and analyse, ROLCG 2015 International Conference IEEE, Cluj-Napoca, Romania
53. Bulacu R., Filip I., Farima D., Aileni R. M., Mathematical modeling of water permeability of nonwoven fabrics for geotextiles, Industria Textila, vol. 66, nr. 2, pp. 90-96, 2015.
54. Aileni R. M., Pasca S., Valderrama C., Biomedical sensors data fusion algorithm for enhancing the efficiency of fault-tolerant systems in case of wearable electronics device, ROLCG 2015 International Conference IEEE, Cluj-Napoca, Romania
55. Aileni R. M., Cloud hybrid service for monitoring building energy efficiency obtained by using insulation structures, ICVL 2015 International Conference, Timisoara, Romania.
56. Aileni R. M., Expert system Smartex based on artificial intelligence for analyse data tracked from medical sensors, ICVL 2015 International Conference, Timisoara, Romania.
57. Aileni R. M., Data gathering algorithms for wireless and analogic sensors, ICVL 2015 International Conference, Timisoara, Romania.
58. Aileni R. M., Popescu R., Smart sensor grid networks for analyze the energy efficiency of the enveloped building by textile composites, MECAHITECH'15 International Conference IEEE, Bucharest, Romania, 2015
59. Aileni R. M., Popescu R., Computational distributed system for electroconductive advanced materials based on Grid Network, MECAHITECH'15 International Conference IEEE, Bucharest, Romania, 2015

- 60.Aileni R.M.,** Dinca L., Optimization Of The Electro-conductive Yarns Distribution In Flexible Wearable Dielectric Structures, ATEE Symposium IEEE, Bucharest, Romania, 2015, IEEE.
- 61.Aileni R.M.,** Mobile Application for Tracking Data from Humidity and Temperature Wearable Sensors, ECAI Conference, Bucharest, Romania, 2015, IEEE.
- 62.Aileni R.M.,** Dinca L., Electroconductive Materials with High Potential for Wearable Electronic Devices Integration, ECAI Conference, Bucharest, Romania, 2015, IEEE.
- 63.Aileni R. M.,** Popescu R., Software based on Grid Network for textile electroconductivity and resistivity analyse, International Conference eLSE, Bucharest, Romania, 2015.
- 64.Aileni R.M.,** A. Iftene, Software application for health state monitoring and data modeling for health risk factor evaluation, based on wearable sensors and observer patterns for sensors data tracking, Proceedings of the 9th International Conference ICVL, 24-25 Octombrie 2014, Bucuresti, p.379-384, ISSN: 1844-8933- ISI Proceedings
- 65.Aileni R.M.,** Iftene A., Cloud Computing healthcare service for optimizes patients virtual monitoring, Proceedings of the 9th International Conference ICVL, 24-25 Octombrie 2014, Bucuresti, p.290-293 ISSN: 1844-8933- ISI Proceedings
- 66.Aileni R.M.,** Mihai C., Ene A., Medar C., New Fortran subroutines used for biofluid parameters modeling and flow simulation thought artificial textile structures used in surgery, Industria Textila, vol.65 2014, p.345-351, ISSN: 1222-5347
- 67.Aileni R.M.,** Bruniaux P., Strungaru R., Wearable sensors modeling for healthcare, Fundamentals of Electrical Engineering International Symposium (ISFEE), p.1-4, 28-29 Nov. 2014 Bucharest, ISBN: 978-1-4799-6820-6, IEEE.
- 68.Aileni R.M.,** Surdu L., Obtaining the optimal surface for electronic device deposition using nanotechnologies, Fundamentals of Electrical Engineering International Symposium (ISFEE), p. 1-4, ISBN: 978-1-4799-6820-6, IEEE.
- 69.Aileni R.M.,** Oksuz L., Surdu L., Life cycle and environment impact for textile materials functionalized by using plasma technology, International Conference ICOPS, Antalia, Turkey, 2015, IEEE.
- 70.Aileni R.M.,** Oksuz L., Surdu L., Human health impact of multifunctional textiles obtained by using plasma technology, International Conference ICOPS, Antalia, Turkey, 2015, IEEE.
- 71.Aileni R.M.,** Surdu L., lordache O., New perspectives in plasma treatmets for textile functionalization, Proceedings of the 15-th Romanian Textiles and Leather Conference - CORTEP 2014, p.200-205, ISSN-L 2285-5378, Brasov, Romania
- 72.Aileni R.M.,** Surdu L., Textile functionalization plasma processes modeling for chitosan submission, Proceedings of the 15-th Romanian Textiles and Leather Conference - CORTEP 2014, p.206-211, ISSN-L 2285-5378, Brasov, Romania
- 73.Aileni R.M.,** Nicula G., Surdu L., Mathematical modeling for thermal resistance capacity of the wool panels integrated in construction module, Proceedings of the 15-th Romanian Textiles and Leather Conference - CORTEP 2014, p.169-174, ISSN-L 2285-5378, Brasov, Romania
- 74.Aileni R.M.,** Nicula G., Surdu L., 3D wool panels development technologies for construction thermal insulation, Proceedings of the 15-th Romanian Textiles and Leather Conference - CORTEP 2014, p.49-52, ISSN-L 2285-5378, Brasov, Romania
- 75.Aileni R. M.,** Dinca L., Surdu L., Polyester testile surface activation for antimicrobial agent submission by suing plasma nanotechnology, Annals of the Academy of Romanian Scientists Series on Science and Technology of Information, Vol. 7, No. 2/2014, pp. 35-42, ISSN 2066-8562
- 76.Aileni R. M.,** Dinca L., Surdu L., Textile surface hydrophobization by using plasma nanotechnology, Annals of the Academy of Romanian Scientists Series on Science and Technology of Information, Vol. 7, No. 2/2014, pp. 43-48, ISSN 2066-8562
- 77.Aileni R.M.,** Ene A., Mihai C., Suci G., Software application for textile invasive device used in advanced medicine, The International Scientific Conference eLearning and Software for Education Proceedings, vol.1, p.359-365
- 78.Aileni R.M.,** Ene. A, Mihai C., Software application for non-Newtonian fluid flow numerical analyze, Proceedings of the 9th International Conference ICVL, 24-25 Octombrie 2014, Bucuresti, p.385-389, ISSN: 1844-8933- ISI Proceedings
- 79.Aileni R.M.,** Surdu L., Mathematical modeling of plasma parameters processes for multifunctional textile, The 5th International Conference on Advanced Materials and Systems ICAMS 2014, 23-25 Octombrie, Bucuresti, p.305-310, ISSN: 2068-0783

- 80.Aileni R.M.**, Surdu L., Medical textile multifunctionalization by using plasma treatment, The 5th International Conference on Advanced Materials and Systems ICAMS 2014, 23-25 Octombrie, Bucuresti, p.311-316, ISSN: 2068-0783
- 81.Farima D., Aileni R.M., Ene A.**, Knitted fabric with variable geometry and controllable functionality with fixing purpose for dressings or compression bandages, Textile Industry Journal ISSN 1222-5347 (57-120), p.70-74, nr.2/2013, Bucharest, Romania.
- 82.Aileni R.M.**, “Adaptive garment with electronic device embedded”, Proceedings of the International Conference Modtech 2013, Sinaia, Romania.
- 83.Aileni R. M.**, Ciocoiu Mihai, 3D shape recognition software used for classification of the human bodies, ISI Proceedings of the ”International Conference on Virtual Learning ICVL 2010”, ISSN 1844 - 893
- 84.Aileni R. M.**, Farima D., Technical Textiles in Personal Protective Equipment(PPE), Bulletin of the Polytechnic Institute of Iasi, Department Textile Confection, Tomul LV, Fasc. 4, pag. 236 - 242, Iasi
- 85.Aileni R. M.**, Farima D., Ciocoiu M., Theoretical Elements of 3D Textile Surface Representation, Bulletin of the Polytechnic Institute of Iasi, Department Textile Confection, Tomul LV, Fasc. 4, pag. 176 - 182, Iasi 2009, ISSN 1454-3265
- 86.Aileni R.M.**, Farima D., Ciocoiu M., The simulation of the garment pattern using virtual body, Book of abstracts ”41st International Symposium on Novelties in Textiles”, Ljubljana, Slovenia, pag.31/ ISBN 978-961-6045-79-7
- 87.Aileni R. M.**, Farima D., Ciocoiu M., The simulation of the textile surface’s Model based mesh for the interior design, Book of abstracts ”41st International Symposium on Novelties in Textiles”, Ljubljana, Slovenia, pag.92 / ISBN 978-961-6045-79-7
- 88.Aileni R.M.**, Farima D., Ciocoiu M., 3D modelling for Clothing Products based on Surface Meshing, Book of abstracts “4th International Technical Textile Congress”, Istanbul, Turkey, pag. 107/ISBN 978-975-441-2857
- 89.Aileni R. M.**, Farima D., Ciocoiu M., Application for testing- aspect of the finite element mesh used in fabric simulation, Proceedings of the 6th International Seminar on Quality Management in Higher Education, Tulcea, Romania, ISBN: 978-973-662-566-4, ISBN (Volume 1): 978-973-662-567-1, pag.337 -340.
- 90.Aileni R. M.**, Farima D., Ciocoiu M., Simulating Cloth in Realistic Way using Vertices Model Based, Proceedings volume of the International Conference TEX CI’10, ISBN 978-80-7372-638-6
- 91.Aileni R. M.**, Chiriac L., Chelaru C., Sandulache I., Multivariate analysis of textile conductive materials obtained using plasma technology, In Proceedings of the International Conference EmerMAT 2020, Bucuresti, Romania
- 92.Aileni R. M.**, Chiriac L., Antistatic finishing of the polyester textile based on chitosan and metallic microparticles, In Proceedings of the International Conference EmerMAT 2020, Bucuresti, Romania
- 93.Aileni R.M.**, Chiriac L, Sandulache I. M., Perspective in using chitosan films for sensors, In Proceedings of the International Conference ICAMS 2020, Bucharest, Romania

Capitole de carti:

1. **Aileni R. M.**, Valderrama C., Strungaru R., *Wearable electronics for elderly health monitoring and active living*, Chapter in Book "Ambient assisted living and Enhanced. Living Environments: Principles, Technologies and Control", Elsevier, 2016, ISBN 978-0-12-805195-5.
2. **Aileni R. M.**, Pasca S., Valderrama C., Strungaru R., book chapter: *Wearable Health Care: Technology Evolution, Algorithms and Needs*, book "Enhanced Living Environments: From Models to Technologies", TheIET - Institution of Engineering and Technology / SciTech Publishing, 2017, ISBN 978-1- 78561-211- 4.
3. **Aileni R. M.**, Suciu G., Suciu V., Pasca S., Strungaru R., Health monitoring using wearable technologies and cognitive radio for IoT, Chapter in Book "Cognitive Radio, Mobile Communications and Wireless Networks", Springer, 2018, ISBN 978-3-319-91002-4
4. **Aileni R. M.**, Suciu G., Suciu V., Ciurea J., Pasca S., Assistive Mobile Technologies for Health Monitoring and Brain Computer Interface for Patients with Motor Impairments, Chapter in Book "Mobile Solutions and Their Usefulness in Everyday Life", Springer, 2018
5. **Aileni R. M.**, Suciu G., Balaceanu C., Beceanu C., Petrache A., Nadrag C., Sever Pasca, Valderrama Carlos, "Body Area Network Challenges and Solutions" in "Body Area Network Challenges and Solutions", M. R., G. K. R., J. R., Thampi S. M., Springer, 978-3-030-00865-9
6. **Aileni R.M.**, Suciu G., Suciu V., Pasca S., Ciurea J. (2020) Smart Systems to Improve the Mobility of People with Visual Impairment Through IoM and IoMT. In: Paiva S. (eds) Technological Trends in Improved Mobility of the Visually Impaired, Springer Nature, Cham. https://doi.org/10.1007/978-3-030-16450-8_3
7. **Aileni R.M.**, Suciu G., Valderrama Sukuyama C.A., Pasca S. (2020) Internet of Things and Communication Technology Synergy for Remote Services in Healthcare. In: Gupta N., Paiva S. (eds) IoT and ICT for Healthcare Applications. EAI/Springer Innovations in Communication and Computing. Springer Nature, Cham. https://doi.org/10.1007/978-3-030-42934-8_5
8. **Aileni R.M.**, Suciu G., Rajagopal M., Pasca S., Valderrama Sukuyama C.A. (2020) Data Privacy and Security for IoMWT (Internet of Medical Wearable Things) Cloud. In: Gupta N., Paiva S. (eds) IoT and ICT for Healthcare Applications. EAI/Springer Innovations in Communication and Computing. Springer Nature, Cham. https://doi.org/10.1007/978-3-030-42934-8_11
9. **Aileni R.M.**, Suciu G., Serrano M., Maheswar R., Valderrama Sakuyama C.A., Pasca S. (2020) The Perspective of Smart Dust Mesh Based on IoEE for Safety and Security in the Smart Cities. In: Rani S., Maheswar R., Kanagachidambaresan G., Jayarajan P. (eds) Integration of WSN and IoT for Smart Cities. EAI/Springer Innovations in Communication and Computing. Springer Nature, Cham. https://doi.org/10.1007/978-3-030-38516-3_9
10. **Aileni R.M.**, Suciu G. (2020) IoMT: A Blockchain Perspective. In: Khan M., Quasim M., Algarni F., Alharthi A. (eds) Decentralised Internet of Things. Studies in Big Data, vol 71. Springer Nature, Cham. https://doi.org/10.1007/978-3-030-38677-1_9
11. **Aileni R.M.**, Suciu G., Valderrama Sukuyama C., Pasca S., Maheswar R. (2020) Cybersecurity Technologies for the Internet of Medical Wearable Devices (IoMWD). In: Shandilya S., Wagner N., Nagar A. (eds) Advances in Cyber Security Analytics and Decision Systems. EAI/Springer Innovations in Communication and Computing. Springer Nature, Cham. https://doi.org/10.1007/978-3-030-19353-9_6
12. **Aileni R.M.**, George S., Pasca S., Carlos Alberto V.S. (2020) Data Fusion-Based AI Algorithms in the Context of IIoTS. In: Kanagachidambaresan G., Anand R., Balasubramanian E., Mahima V. (eds) Internet of Things for Industry 4.0. EAI/Springer Innovations in Communication and Computing. Springer Nature, Cham. https://doi.org/10.1007/978-3-030-32530-5_2

Carti:

1. **Aileni Raluca Maria** - Theoretical and experimental contributions to dynamic simulation of the 3D textile products, Politehnum Publishing, 2011, Iasi, Romania.
2. **Aileni Raluca Maria** - Optimization of thermal insulation properties for nonwoven textile composite panels for constructions, Certex Publishing, 2014, Bucharest, Romania.

ANEXA II

Cursuri urmate:

1. Scientific project management (Technical University "Gheorghe Asachi" of Iasi, Romania 2009)
2. Mathematics modeling and simulation (Technical University "Gheorghe Asachi" of Iasi, Romania 2009)
3. Evaluation and development of the scientific documents (Technical University "Gheorghe Asachi" of Iasi, Romania 2009)
4. Trainer of Trainers (Technical University "Gheorghe Asachi" of Iasi, Romania 2009)
Design Concept (2D/3D) (ENSAIT Lille Roubaix, France, 2010)
5. Virtual Garment Lectra (ENSAIT Lille Roubaix, France, 2010)
6. Rapidform Software (ENSAIT Lille Roubaix, France, 2010)
7. Vitus 3D Scanning - Virtual body & optimization (ENSAIT Lille Roubaix, France, 2010)
8. Kawabata evaluation system (ENSAIT Lille Roubaix, France, 2010)
9. .Net Summer Google School Course (Faculty of Computer Science Iasi, Romania 2012)
10. Project Manager (ReNITT, Iasi, Romania 2013)
11. Innovation Manager (ReNITT, Iasi, Romania, 2013)
12. Manager of Quality Management Systems (ReNITT, Iasi, Romania 2013)
13. Microsoft Windows .Net (C# programming, Iasi, Romania 2013)
14. Road Mapping Cybersecurity Research and Innovation (Seminar (CSP/NIS/WG3), Florence, Italy 2014)
15. How to Write a Competitive Proposal for Horizon2020 (Seminar by Sean McCarthy, Bucharest, Romania, 2014)
16. Finite element analysis of non-linear fluids targeting heat transfer and fluid flow (MATLAB/COMSOL Multiphysics, Bucharest, Romania 2014)
17. Model and simulate any physics-based system using finite element method (MATLAB/COMSOL Multiphysics, Bucharest, Romania 2014)
18. AAL2Business Deployment (Seminar (AAL), Bucharest, Romania, 2014)
19. Best Practices when using MATLAB for Algorithm Design and Implementation (MathWorks, Bucharest, Romania 2015)
20. Machine Learning with MATLAB (Bucharest, Romania, 2015)
21. International Training for Horizon 2020 (Austrian Research Agency, Bucharest, Romania, 2015)
22. Quantum Imaging and Quantum Metrology (Politehnica University of Bucharest, Romania 2015)
23. Java Programming - Mobile Devices (Politehnica University of Bucharest, Romania 2015)
24. Artificial Intelligence programming (Politehnica University of Bucharest, Romania 2015)
25. Signal Processing and Communication System Design using MATLAB and Simulink (Politehnica University of Bucharest, Romania 2015)
26. Effective finite element modeling with COMSOL Multiphysics (Gamax Solutions, Bucharest, Romania, 2016)
27. Multiphysics Simulation in Practice with COMSOL (Gamax Laboratory Solutions, Bucharest, Romania, 2016)
28. Modelling and Simulations with Simulink (Gamax Laboratory Solutions, Bucharest, Romania, 2016)
29. Integrating MATLAB into your C/C++ Product Development Workflow (Gamax Laboratory Solutions, Bucharest, Romania, 2016)
30. Multiphysics Modeling in COMSOL (Gamax Laboratory Solutions, Bucharest, Romania, 2016)
31. Prototyping and Implementation of Embedded Algorithms (Gamax Laboratory Solutions, Bucharest, Romania, 2016)
32. Audio and Digital Signal Processing using MATLAB and SIMULINK (Gamax Laboratory Solutions, Bucharest, Romania, 2016)
33. Data Analysis and Computational Finance Using MATLAB (Gamax Laboratory Solutions, Bucharest, Romania, 2016)
34. Introduction to Molecular Spectroscopy, University of Manchester, 10-30 august 2020
35. Auditori conform SR EN ISO/IEC 17025:2018 si SR EN ISO 19011:2018
36. Technology transfer and commercialization, The Transfer Institute Ireland, 16.10.2021-6.11.2020

ANEXA III

Brevete:

1. **Aileni R.M.**, Chiriac L., Surdu L., Soare V., Neagu G., *Țesătură peliculizată cu microparticule metalice destinată realizării senzorilor textili*, A/00617/2018
2. **Aileni R.M.**, Chiriac L., *Compozit textil funcționalizat prin depuneri polimerice electroconductive pentru senzori flexibili*, A/00875/2019
3. **Aileni R.M.**, Chiriac L., Toma D, Soare V., *Compozit electroconductiv pe bază microparticule de nichel pentru electrozi, senzori și ecrane electromagnetice*, A/00527/2020
4. **Aileni R.M.**, Chiriac L., Toma D., *Compozit 3D pe bază de cupru și filamente de grafen cu proprietăți electroconductive pentru electrozi textili și senzori flexibili*, A/00255/2020
5. **Aileni R.M.**, Chiriac L., Jipa C., Toma D., *Material compozit pe baza de grafen cu proprietăți conductive și antistatice obținut prin funcționalizare în plasmă*, A/00814/2020
6. **Aileni R.M.**, Chiriac L., Toma D., Memecica O.M., Raducu L., Soare V., *Compozit pe bază de film conductiv depus pe suport textil*, A/00815/2020
7. **Aileni R.M.**, Chiriac L., Toma D., *Compozite textile pe bază de pelicule polimerice cu conținut de materiale feromagnetice și paramagnetice pentru ecrane electromagnetice*, A/00283/2021
8. **Aileni R.M.**, Chiriac L., Toma D., *Compozit textil multistratificat pentru ecranare electromagnetică*, A/00284/2021

Premii:

1. **Medalie de aur** obținută la Euroinvent 2021 pentru cererea de brevet "*Graphene-based composite material with conductive and antistatic properties obtained by plasma functionalization*", autori: **Aileni R. M.**, Chiriac L., Jipa C., Toma D.
2. **Medalie de argint** obținută la INVENTICA 2021 pentru cererea de brevet "*Textile composite functionalized by electroconductive polymeric deposits for flexible sensors*", autori: **Aileni R. M.**, Chiriac L.