

Examen de promovare pentru ocuparea postului poz. 5 , de profesor,  
 Departamentul de Calculatoare,  
 Facultatea de Automatică și Calculatoare,  
 Disciplinele: Achiziția și prelucrarea datelor,  
 Programare orientată pe obiecte,  
 Proiectarea sistemelor de interacțiune om-calculator,  
 Achiziția și prelucrarea datelor – proiect  
 Domeniul Calculatoare și Tehnologia Informației

# LISTA DE LUCRĂRI

Candidat: LUPU Robert-Gabriel - **Dr./** din 2012, conferențiar 2016

## 1. Lista a maximum 10 lucrări, cele mai relevante pentru domeniul disciplinelor postului

1.	N. -A. Botezatu, A. -T. Popovici and <b>R. G. Lupu</b> , "Reengineering Home Care with SmartCare: An AAL Architecture for Elderly Wellbeing," in <i>IEEE Access</i> , doi: 10.1109/ACCESS.2026.3650969. (Q1-3.6)
2.	S.-D. Achirei, M.-C. Heghea, <b>R.-G. Lupu</b> , and V.-I. Manta, "Human Activity Recognition for Assisted Living Based on Scene Understanding," <i>Applied Sciences</i> , vol. 12, no. 21, p. 10743, Oct. 2022, doi: 10.3390/app122110743.
3.	O. Zvoristeanu, S. Caraiman, <b>R.-G. Lupu</b> , N. A. Botezatu, and A. Burlacu, "Sensory Substitution for the Visually Impaired: A Study on the Usability of the Sound of Vision System in Outdoor Environments," <i>Electronics</i> , vol. 10, no. 14, p. 1619, Jul. 2021, doi: 10.3390/electronics10141619.
4.	<b>R.-G. Lupu</b> , O. Mitrut, , A. Stan, F. Ungureanu, K. Kalimeri, and A. Moldoveanu, "Cognitive and Affective Assessment of Navigation and Mobility Tasks for the Visually Impaired via Electroencephalography and Behavioral Signals," <i>Sensors</i> , vol. 20, no. 20, p. 5821, Oct. 2020, doi: 10.3390/s20205821.
5.	<b>Lupu, R.G.</b> , Ungureanu, F., Ferche, O., Moldoveanu, A. (2020). <i>Neuromotor Recovery Based on BCI, FES, Virtual Reality and Augmented Feedback for Upper Limbs</i> . In: Guger, C., Allison, B.Z., Miller, K. (eds) <i>Brain–Computer Interface Research</i> . SpringerBriefs in Electrical and Computer Engineering. Springer, Cham. <a href="https://doi.org/10.1007/978-3-030-49583-1_8">https://doi.org/10.1007/978-3-030-49583-1_8</a>
6.	Moldoveanu, O.-M. Ferche; F. Moldoveanu; <b>R. -G. Lupu</b> ; D. Cintează; D. -C. Irimia; C. Toader, "The TRAVEE System for a Multimodal Neuromotor Rehabilitation," in <i>IEEE Access</i> , vol. 7, pp. 8151-8171, 2019, doi: 10.1109/ACCESS.2018.2886271.
7.	<b>R.-G. Lupu</b> , D.-C. Irimia, F. Ungureanu, M.-S. Poboroniuc, A. Moldoveanu, "BCI and FES Based Therapy for Stroke Rehabilitation Using VR Facilities", <i>Wireless Communications and Mobile Computing</i> , vol. 2018, Article ID 4798359, 8 pages, 2018. <a href="https://doi.org/10.1155/2018/4798359">https://doi.org/10.1155/2018/4798359</a>
8.	<b>R. G. Lupu</b> , N. Botezatu, F. Ungureanu, D. Ignat and A. Moldoveanu, "Virtual reality based stroke recovery for upper limbs using leap motion," 2016 20th International Conference on System Theory, Control and Computing (ICSTCC), Sinaia, Romania, 2016, pp. 295-299, doi: 10.1109/ICSTCC.2016.7790681
9.	M. Dascalu, A. Moldoveanu, O. Balan, <b>R. G. Lupu</b> , F. Ungureanu and S. Caraiman, "Usability assessment of assistive technology for blind and visually impaired," 2017 E-Health and Bioengineering Conference (EHB), Sinaia, Romania, 2017, pp. 523-526, doi: 10.1109/EHB.2017.7995476
10.	S. Caraiman, A. Stan, N. Botezatu, P. Herghelegiu, <b>R. G. Lupu</b> and A. Moldoveanu, "Architectural Design of a Real-Time Augmented Feedback System for Neuromotor Rehabilitation," 2015 20th International Conference on Control Systems and Computer Science, Bucharest, Romania, 2015, pp. 850-855, doi: 10.1109/CSCS.2015.106

## 2. Teza(-ele) de doctorat (T1, T2)

**T1. Tehnici noi de prelucrare și transmitere eficientă a informațiilor în aplicații de telemonitorizare în medicină, 2012, Universitatea Tehnică "Gheorghe Asachi" din Iași, Știința Calculatoarelor**, conducător științific: prof.univ.dr.ing. Vasile Ion Manta  
 (inclusiv anul, universitatea, domeniul, conducătorul de doctorat)

### 3. Cărți și capitole din cărți

a) Cărți/ cursuri/ manuale publicate în edituri recunoscute din țară sau din străinătate (Ca1, Ca2 etc.), îndrumare publicate/culegeri de probleme (I1, I2 etc.), sisteme de laborator funcționale etc. (D1, D2 etc.) cursuri proprii pe Web, sisteme e-learning etc. (W1, W2 etc.), după caz, precum și alte lucrări (M1, M2 etc.) prin care se aduc contribuții la dezvoltarea activităților didactice/ profesionale.

	Capitol carte/ curs/ manual publicat în străinătate	Punctaj
Ca	<b>Ca1 - Lupu Robert Gabriel</b> , Ungureanu Florina, Ferche Oana, Moldoveanu Alin (2020). Neuromotor Recovery Based on BCI, FES, <i>Virtual Reality and Augmented Feedback for Upper Limbs</i> . pp 75–85, In: Guger, C., Allison, B.Z., Miller, K. (eds) Brain-Computer Interface Research - A State-of-the-Art Summary 10. SpringerBriefs in Electrical and Computer Engineering. Springer, Cham. <a href="https://doi.org/10.1007/978-3-030-49583-1_8">https://doi.org/10.1007/978-3-030-49583-1_8</a> , ISBN: 978-3-030-49582-4	0.15
	<b>Ca2 - Robert Gabriel Lupu</b> , Andrei Stan, Florina Ungureanu, <i>Patient Monitoring: Wearable Device for Patient Monitoring</i> , Advances in Electrical Engineering and Computational Science Vol.39, Gelman, Len (Ed.), Springer Netherlands 2009, pp. 659-668, ISBN 978-90-481-2311-7, <a href="http://link.springer.com/chapter/10.1007%2F978-90-481-2311-7_56">http://link.springer.com/chapter/10.1007%2F978-90-481-2311-7_56</a> <a href="https://www.worldcat.org/title/405547867">https://www.worldcat.org/title/405547867</a>	0.18
	<b>Carte/ curs/ manual publicată în editură recunoscută CNCS (unic/ prim autor sau co-autor)</b>	
	<b>Ca3 - Robert Gabriel Lupu</b> , <i>Telemonitorizarea Medicală și Tehnologie Asistivă</i> , Editura Politehnicum 2013, ISBN 978-973-621-407-3, nr. pagini: 160	8
	<b>Ca4 - Adrian Cotirlet, Andrei Zala, Elena Nechita, Elena Serban, Valentin Nedef, Nicolae Botezatu, Alexandru Archip, Daniel Dobreci, Robert Lupu, Paul Herghelegiu</b> , <i>Monitorizarea la distanță a parametrilor vitali</i> , Alma Mater, 2015, ISBN: 978-606-527-511-9, 154 pagini	0.77
	<b>Capitol curs/ manual publicat în editură recunoscută CNCS</b>	
	<b>Ca5 - Nicolae Botezatu, Simona Caraiman, Paul Herghelegiu, Robert Gabriel Lupu, Andrei Stan</b> , <i>TRAVEE - Proiectarea arhitecturală</i> , pp. 85-123, nr. pagini 38, TRAVEE - studiu de caz - inițierea unei cercetări ICT în recuperarea neuromotorie, Volum colectiv editat de Alin Moldoveanu, București, Editura Printech 2014, 221 pagini, ISBN 978-606-23-0349-5	0.23
	<b>Ca6 - Nicolae Botezatu, Simona Caraiman, Paul Herghelegiu, Robert Gabriel Lupu, Andrei Stan</b> , <i>TRAVEE - studiul alternativelor pentru echipamente și planul de achiziții</i> , pp. 155-195, nr. de pagini 40, TRAVEE - studiu de caz - inițierea unei cercetări ICT în recuperarea neuromotorie, Volum colectiv editat de Alin Moldoveanu, București, Editura Printech 2014, 221 pagini, ISBN 978-606-23-0349-5	0.3
I	<b>Îndrumar/ culegere de probleme (publicat sau disponibil pe Web)</b>	
	<b>I1 - Robert Gabriel Lupu</b> , Achiziția și prelucrarea datelor, Editura Tehnopress, 2023, ISBN: 978-606-687-514-1, nr. pagini: 118	
D	<b>Sisteme de laborator funcționale</b>	
	D1 – Achiziția și generare semnalelor analogice	1.5
	D2 – Achiziția și generare semnalelor digitale	1.5
	D3 – Proiectarea aplicațiilor de interacțiune om-calculator în realitate virtuală	1.5
W	<b>Utilizarea sistemelor de predare/ învățare/ evaluare de tip e-learning/ on-line/ multimedia etc.</b>	
	W1 – Programare Orientată pe obiecte – moodle	1
	W2 – Proiectarea Aplicațiilor orientate obiect – moodle	1
	W3 – Proiectarea sistemelor de interacțiune om-calculator – moodle	1
	W4 – Achiziția și prelucrarea datelor - <a href="https://drive.google.com/drive/folders/1pOs06Cd4216yMeNle2AB6_2cpmQRJ2t1?usp=s">https://drive.google.com/drive/folders/1pOs06Cd4216yMeNle2AB6_2cpmQRJ2t1?usp=s</a> haring	1

b) Cărți/ capitole cărți de specialitate publicate în edituri recunoscute din țară sau din străinătate (Cb1, Cb2 etc.),

	Carte de specialitate publicată în editură din străinătate	Punctaj
Cb	<b>Capitol carte de specialitate publicată în editură din străinătate</b>	
	<b>Carte de specialitate/ capitol publicat în editură din țară, recunoscută CNCS</b>	

4. Articole/ studii publicate în reviste din țară/ străinătate, cu factor de impact/ indexate în BDI/ neindexate în BDI (R1, R2 etc.), creații artistice prezentate la manifestări recunoscute din țară/

străinătate (A1, A2 etc.), articole/ studii publicate în volumele manifestărilor științifice naționale/ internaționale indexate BDI/ neindexate BDI (V1, V2 etc.), după caz, precum și alte lucrări (N1, N2 etc.) prin care se aduc **contribuții științifice la dezvoltarea domeniului**.

	<b>Articol publicat în revistă cotate ISI, cu factor de impact</b>	<b>Punctaj</b>
<b>R</b>	<b>R1</b> - N. -A. Botezatu, A. -T. Popovici and <b>R. G. Lupu</b> , "Reengineering Home Care with SmartCare: An AAL Architecture for Elderly Wellbeing," in <i>IEEE Access</i> , doi: 10.1109/ACCESS.2026.3650969. (Q1-3.6)	6
	<b>R2</b> - Stefan-Daniel Achirei, Mihai-Cristian Heghea, <b>Robert-Gabriel Lupu</b> , and Vasile-Ion Manta, "Human Activity Recognition for Assisted Living Based on Scene Understanding," <i>Applied Sciences</i> , vol. 12, no. 21, p. 10743, Oct. 2022, doi: 10.3390/app122110743. (JCR - Q2 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering))	6
	<b>R3</b> - Otilia Zvorișteanu, Simona Caraiman, <b>Robert-Gabriel Lupu</b> , Nicolae-Alexandru Botezatu, and Adrian Burlacu, "Sensory Substitution for the Visually Impaired: A Study on the Usability of the Sound of Vision System in Outdoor Environments," <i>Electronics</i> , vol. 10, no. 14, p. 1619, Jul. 2021, doi: 10.3390/electronics10141619. (JCR - Q2(Electrical and Electronic Engineering) CiteScore - Q2 (Electrical and Electronic Engineering))	6
	<b>R4</b> - <b>Robert-Gabriel Lupu</b> , Oana Mitruț, Andrei Stan, Florina Ungureanu, Kyriaki Kalimeri, and Alin Moldoveanu, "Cognitive and Affective Assessment of Navigation and Mobility Tasks for the Visually Impaired via Electroencephalography and Behavioral Signals," <i>Sensors</i> , vol. 20, no. 20, p. 5821, Oct. 2020, doi: 10.3390/s20205821. (JCR - Q2 (Instruments & Instrumentation) / CiteScore - Q1 (Instrumentation))	6
	<b>R5</b> - Alin Moldoveanu; Oana-Maria Ferche; Florica Moldoveanu; <b>Robert Gabriel Lupu</b> ; Delia Cintează; Danut Constantin Irimia; Corneliu Toader, "The TRAVEE System for a Multimodal Neuromotor Rehabilitation," in <i>IEEE Access</i> , vol. 7, pp. 8151-8171, 2019, doi: 10.1109/ACCESS.2018.2886271. JCR (Q2 - Computer Science, Information Systems in SCIE edition, Q2 - Engineering, Electrical & Electronic in SCIE edition, Q2 - Telecommunications in SCIE edition)	6
	<b>R6</b> - <b>Robert-Gabriel Lupu</b> , Danut Constantin Irimia, Florina Ungureanu, Marian Silviu Poboroniuc, Alin Moldoveanu, <i>BCI and FES Based Therapy for Stroke Rehabilitation Using VR Facilities</i> , WIRELESS COMMUNICATIONS & MOBILE COMPUTING, 2018, DOI: 10.1155/2018/4798359	6
	<b>R7</b> - Florina Ungureanu, <b>Robert-Gabriel Lupu</b> , Andrei Stan, Ioan Craciun, Carmen Teodosiu, <i>TOWARDS REAL TIME MONITORING OF WATER QUALITY IN RIVER BASINS</i> , ENVIRONMENTAL ENGINEERING AND MANAGEMENT JOURNAL, vol. 9, issue 9, sep 2010, DOI: 10.30638/eemj.2010.164	6
	<b>Articol publicat în revistă indexată în baze de date internaționale (BDI)</b>	
	<b>Articol/studiu publicat în revistă de specialitate neindexată în baze de date</b>	
	<b>R8</b> - <b>R.G. Lupu</b> , F. Ungureanu, <i>A survey of eye tracking methods and applications</i> , Buletinul Institutului Politehnic din Iasi, Automatic Control and Computer Science Section, vol.3, no. 1, 2013	1
	<b>R9</b> - C. Rotariu, <b>R. Lupu</b> , G. Vieriu, <i>Low Power Wearable Device for Sleep Disorders Monitoring</i> , Buletinul Stiintific al Universitatii Politehnica din Timisoara, seria Automatica si Calculatoare, vol. 58, no. 1, 2013	1
	<b>R10</b> - A. Stan, N. Botezatu, L. Panduru, <b>R.G. Lupu</b> , <i>A finite state machine model used in embedded systems software development</i> , BULETINUL INSTITUTULUI POLITEHNIC DIN IASI, Tomul LV (LIX), Fasc. 2, 2009, Sectia AUTOMATICĂ si CALCULATOARE, "Gheorghe Asachi" Technical University of Iasi	1
	<b>R11</b> - R. Ciorap, D. Zaharia, C. Corciovă, M. Ungureanu, <b>R. Lupu</b> , <i>Wireless device for monitoring the patients with chronic disease</i> , Revista medico-chirurgicala a Societatii de Medici si Naturalisti din Iasi, vol. 112, Issue 4, Pages 1115 - 1119, 2008 Oct-Dec	1
	<b>R12</b> - R. Ciorap, D. Zaharia, C. Corciovă, M. Ungureanu, <b>R. Lupu</b> , <i>Monitoring system for cardiovascular parameters of drivers</i> , Revista medico-chirurgicala a Societatii de Medici si Naturalisti din Iasi, vol. 112, Issue 1, Pages 263 - 265, 2008	1
	<b>R13</b> - R. Ciorap, D. Arotaritei, F. Topoliceanu, <b>R. Lupu</b> , C. Corciova, M. Ungureanu, <i>E-health application for home monitoring of neuro-muscular rehabilitation</i> , Revista medico-chirurgicala a Societatii de Medici si Naturalisti din Iasi, vol. 109, Issue 2, Pages 440 - 444, 2005 Apr-Jun	1

##### 5. Publicații apărute în lucrări ale principalelor conferințe internaționale de specialitate

<b>V</b>	<b>Articol/studiu publicat în volumul unei manifestări științifice indexate în baze de date internaționale (BDI)</b>	
	<b>V1</b> - Adrian Alexandrescu, Nicolae Botezatu and <b>Robert Lupu</b> , "Monitoring and	4

<i>processing of physiological and domotics parameters in an Internet of Things (IoT) assistive living environment," 2022 26th International Conference on System Theory, Control and Computing (ICSTCC), Sinaia, Romania, 2022, pp. 362-367, doi: 10.1109/ICSTCC55426.2022.9931865.</i>	
<b>V2</b> - Cristian Tiberius Axinte, Ciprian Stamate, <b>Robert-Gabriel Lupu</b> , Alexandru Barleanu, Georgiana Juravle, <i>A Scalable Haptic Circuit for Multi-digit Grasps</i> , 13th International Conference on Human Haptic Sensing and Touch Enabled Computer Applications (EuroHaptics), MAY 22-25, 2022, Hamburg, GERMANY	4
<b>V3</b> - Nicolae Botezatu, Aadrian Alexandrescu, Simona Caraiman, Florina Ungureanu and <b>Robert Lupu</b> , <i>"Sensing Architecture for a Nosocomial Infection Tracing System,"</i> 2021 25th International Conference on System Theory, Control and Computing (ICSTCC), Iasi, Romania, 2021, pp. 378-383, doi: 10.1109/ICSTCC52150.2021.9607207.	4
<b>V4</b> - Otilia Zvoristeanu, Stefan-Daniel Achirei, Nicolae-Alexandru Botezatu, <b>Robert-Gabriel Lupu</b> , Adrian Burlacu and Simona Caraiman, <i>"On Improving Perception for Visually Impaired: Requirements, Research and Practicality,"</i> 2020 International Conference on e-Health and Bioengineering (EHB), Iasi, Romania, 2020, pp. 1-4, doi: 10.1109/EHB50910.2020.9280265.	4
<b>V5</b> - Stefan Daniel Achirei; Otilia Zvoristeanu; Adrian Alexandrescu; Nicolae Alexandru Botezatu; Andrei Stan; Cristian Rotariu; <b>Robert Gabriel Lupu</b> ; Simona Caraiman et al., <i>"Remote Monitoring of Physiological Parameters used in Ambient Assistive Technologies,"</i> 2020 International Conference on e-Health and Bioengineering (EHB), Iasi, Romania, 2020, pp. 1-4, doi: 10.1109/EHB50910.2020.9280249.	4
<b>V6</b> - Stefan Daniel Achirei; Otilia Zvoristeanu; Adrian Alexandrescu; Nicolae Alexandru Botezatu; Andrei Stan; Cristian Rotariu; <b>Robert Gabriel Lupu</b> ; , <i>"SMARTCARE: On the Design of an IoT Based Solution for Assisted Living,"</i> 2020 International Conference on e-Health and Bioengineering (EHB), Iasi, Romania, 2020, pp. 1-4, doi: 10.1109/EHB50910.2020.9280185.	4
<b>V7</b> - Corina Cimpanu, <b>Robert-Gabriel Lupu</b> , Florina Ungureanu, <i>Laboratory of Things: Virtual Laboratory for Signal Processing Experiments</i> , 15th International Scientific Conference on eLearning and Software for Education (eLSE) - New Technologies and Redesigning Learning Spaces, 11-12.04.2019, Bucharest, ROMANIA, DOI: 10.12753/2066-026X-19-033	4
<b>V8</b> - <b>Robert-Gabriel Lupu</b> , Florina Ungureanu and Corina Cimpanu, <i>"Brain-Computer Interface: Challenges and Research Perspectives,"</i> 2019 22nd International Conference on Control Systems and Computer Science (CSCS), Bucharest, Romania, 2019, pp. 387-394, doi: 10.1109/CSCS.2019.00071.	4
<b>V9</b> - Florina Ungureanu, <b>Robert-Gabriel Lupu</b> and Andrei Rasvan Romila, <i>"Experimental Analysis of Visual Cortex Activity - An EEG Study,"</i> 2019 22nd International Conference on Control Systems and Computer Science (CSCS), Bucharest, Romania, 2019, pp. 223-227, doi: 10.1109/CSCS.2019.00044.	4
<b>V10</b> - Adrian Burlacu; Simona Caraiman; Amalia Cozma; Ecaterina Dobrinu; <b>Robert Lupu</b> ; Roxana Miron; Otilia Zvoristeanu, <i>"Stereo vision based environment analysis and perception for autonomous driving applications,"</i> 2018 IEEE 14th International Conference on Intelligent Computer Communication and Processing (ICCP), Cluj-Napoca, Romania, 2018, pp. 281-286, doi: 10.1109/ICCP.2018.8516434.	4
<b>V11</b> - Radu Gabriel Bozomitu, Aalexandru Păsărică, <b>Robert-Gabriel Lupu</b> , Cristian Rotariu and Eugen Coca, <i>"Pupil detection algorithm based on RANSAC procedure,"</i> 2017 International Symposium on Signals, Circuits and Systems (ISSCS), Iasi, Romania, 2017, pp. 1-4, doi: 10.1109/ISSCS.2017.8034891.	4
<b>V12</b> - Maria Dascalu, Alin Moldoveanu, Oana Balan, <b>Robert-Gabriel Lupu</b> , Florina Ungureanu and Simona Caraiman, <i>"Usability assessment of assistive technology for blind and visually impaired,"</i> 2017 E-Health and Bioengineering Conference (EHB), Sinaia, Romania, 2017, pp. 523-526, doi: 10.1109/EHB.2017.7995476.	4
<b>V13</b> - Oana-Maria Ferche, Alin Moldoveanu, Maria Dascalu, Constanta Nicoleta Bodea, Robert Lupu, <b>Danut Constantin Irimia</b> , Florica Moldoveanu, <i>"The TRAVEE neuromotor rehabilitation system: In-vivo testing,"</i> 2017 Zooming Innovation in Consumer Electronics International Conference (ZINC), Novi Sad, Serbia, 2017, pp. 30-33, doi: 10.1109/ZINC.2017.7968655.	4
<b>V14</b> - <b>Robert Gabriel Lupu</b> ; Paul Herghelegiu; Nicolae Botezatu; Alin Moldoveanu; Oana Ferche; Catalin Ilie; Ana-Maria Levinta, <i>"Virtual reality system for stroke recovery for upper limbs using ARUCO markers,"</i> 2017 21st International Conference on System Theory, Control and Computing (ICSTCC), Sinaia, Romania, 2017, pp. 548-552, doi: 10.1109/ICSTCC.2017.8107092.	4
<b>V15</b> - <b>Robert-Gabriel Lupu</b> , Radu-Gabriel Bozomitu, Alexandru Păsărică and Cristian	4

Rotariu, "Eye tracking user interface for Internet access used in assistive technology," 2017 E-Health and Bioengineering Conference (EHB), Sinaia, Romania, 2017, pp. 659-662, doi: 10.1109/EHB.2017.7995510.	
<b>V16</b> - Alin Dragos Bogdan Moldoveanu; Silviu Ivascu; Iulia Stanica; Maria-Iuliana Dascalu; <b>Robert Lupu</b> ; Gabriel Ivanica; Oana Balan; Simona Caraiman; Florina Ungureanu; Florica Moldoveanu; Anca Morar, "Mastering an advanced sensory substitution device for visually impaired through innovative virtual training," 2017 IEEE 7th International Conference on Consumer Electronics - Berlin (ICCE-Berlin), Berlin, Germany, 2017, pp. 120-125, doi: 10.1109/ICCE-Berlin.2017.8210608.	4
<b>V17</b> - Florina Ungureanu, <b>Robert-Gabriel Lupu</b> , Simona Caraiman and Andrei Stan, "A Framework to Assess Cortical Activity of Visually Impaired Persons during Training with a Sensory Substitution Device," 2017 21st International Conference on Control Systems and Computer Science (CSCS), Bucharest, Romania, 2017, pp. 199-206, doi: 10.1109/CSCS.2017.34.	4
<b>V18</b> - <b>Robert-Gabriel Lupu</b> , Nicolae Botezatu, Florina Ungureanu, Daniel Ignat and Alin Moldoveanu, "Virtual reality based stroke recovery for upper limbs using leap motion," 2016 20th International Conference on System Theory, Control and Computing (ICSTCC), Sinaia, Romania, 2016, pp. 295-299, doi: 10.1109/ICSTCC.2016.7790681.	4
<b>V19</b> - <b>Robert-Gabriel Lupu</b> , Florina Ungureanu and Andrei Stan, "A virtual reality system for post stroke recovery," 2016 20th International Conference on System Theory, Control and Computing (ICSTCC), Sinaia, Romania, 2016, pp. 300-305, doi: 10.1109/ICSTCC.2016.7790682.	4
V20 - Radu Gabriel Bozomitu, Alexandru Păsărică, Vlad Cehan, <b>Robert-Gabriel Lupu</b> , Cristian Rotariu and Eugen Coca, "Implementation of eye-tracking system based on circular Hough transform algorithm," 2015 E-Health and Bioengineering Conference (EHB), Iasi, Romania, 2015, pp. 1-4, doi: 10.1109/EHB.2015.7391384.	4
V21 - Radu Gabriel Bozomitu, Vlad Cehan, <b>Robert-Gabriel Lupu</b> , Cristian Rotariu and Constantin Barabaşa, "A new technique for improving pupil detection algorithm," 2015 International Symposium on Signals, Circuits and Systems (ISSCS), Iasi, Romania, 2015, pp. 1-4, doi: 10.1109/ISSCS.2015.7203973.	4
V22 - Simona Caraiman, Andrei Stan, Nicolae Botezatu, Paul Herghelegiu, <b>Robert-Gabriel Lupu</b> and Alin Moldoveanu, "Architectural Design of a Real-Time Augmented Feedback System for Neuromotor Rehabilitation," 2015 20th International Conference on Control Systems and Computer Science, Bucharest, Romania, 2015, pp. 850-855, doi: 10.1109/CSCS.2015.106.	4
V23 - <b>Robert Gabriel Lupu</b> ; Radu Gabriel Bozomitu; Lucian Nita; Andrei Romila; Alexandru Pasarica; Dragos Arotaritei; Cristian Rotariu., "Medical professional end-device applications on Android for interacting with neuromotor disabled patients," 2015 E-Health and Bioengineering Conference (EHB), Iasi, Romania, 2015, pp. 1-4, doi: 10.1109/EHB.2015.7391539.	4
V24 - Lucian Niță, Radu Gabriel Bozomitu, Vlad Cehan, Cristian Rotariu and <b>Robert-Gabriel Lupu</b> , "Software for a bidirectional communication system for neuromotor disabled patients," 2015 38th International Spring Seminar on Electronics Technology (ISSE), Eger, Hungary, 2015, pp. 458-461, doi: 10.1109/ISSE.2015.7248040.	4
V25 - Lucian Nita, Radu Gabriel Bozomitu, <b>Robert-Gabriel Lupu</b> , Alexandru Pasarica and Cristian Rotariu, "Assistive communication system for patients with severe neuromotor disabilities," 2015 E-Health and Bioengineering Conference (EHB), Iasi, Romania, 2015, pp. 1-4, doi: 10.1109/EHB.2015.7391517.	4
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<b>Articol/studiu publicat în volumul unei manifestări științifice neindexate în baze de date</b>	
V53 - O.B. A.Moldoveanu, H.Nagy, G. Wersényi, N. Botezatu, A. Stan, <b>R.G. Lupu</b> , <i>Haptic-auditory perceptual feedback based training for improving the spatial acoustic resolution of the visually impaired people</i> , The 21st International Conference on Auditory Display (ICAD 2015) July 8–10, 2015, Graz, Austria, Georgia Institute of Technology	1
V54 - <b>R.G. Lupu</b> , C. Vlad, F. Ungureanu, C. Ciobanica, <i>Gateway Software Design for Mobile Patient Monitoring</i> , IEEE 14th International Conference on System Theory and Control (Joint Conference SINTES 14, SACCS 10, SIMSIS 14), 2010	1

**6. Proiecte de cercetare-dezvoltare (P1, P2 etc.) pe bază de contract/ grant, precum și alte lucrări de cercetare-dezvoltare (F1, F2 etc.), după caz, prin care se aduc contribuții la dezvoltarea mediului educațional/ cultural/ economic/ social etc.**

	<b>Proiecte/ Contracte/ Granturi de cercetare-dezvoltare câștigate prin competiție internațională</b>	<b>Punctaj</b>
P	<b>P1</b> - Motor imagery-based virtual therapist for early post-stroke recovery - TraViMo, PN-IV-P7-7.1-PTE-2024-0764, 31 PTE/2025	40
	<b>P2</b> - Terapeut Virtual prin Feedback Augmentat pentru Recuperarea Neuromotorie, PN-III-P2-2.1-PTE-2021-0634	40
	<b>P3</b> - Sistem Integrat de Prevenire a Propagării Infecțiilor Intraspitalicești - PREVENT, 24PTE/2020, PN-III-P2-2.1-PTE-2019-0769	40
	<b>P4</b> - Terapeut Virtual prin Feedback Augmentat pentru Recuperare Neuromotorie” - TRAVEE, PNCDI-2, 1-2014 – 2016, buget 250000 RON	40
	<b>Proiecte/ Contracte/ Granturi de cercetare-dezvoltare câștigate prin competiție națională sau încheiate cu institute de cercetare, companii, regii, societăți comerciale</b>	
	<b>P5</b> - Studiu privind modalitatea de detecție și procesare a semnalului generat în procesul de ardere a unui amestec de gaz și analiza privind dependența dintre curentul de ionizare a unui arzător și topologia camerei de ardere - DEPRIZ, 2019	30

**7. Alte lucrări și contribuții științifice sau, după caz, din domeniul creației artistice**

F	<b>Alte lucrări de proiectare-cercetare-dezvoltare</b>	
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	F1	
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**Note:**

(1) Fiecare lucrare este prezentată, în limba în care a fost publicată / expusă, corespunzător structurii "I, II, III, IV, V, VI", unde:

- I - indicativul ( T1, T2 etc.; Ca1, Ca2 etc.; ...), care se scrie "bold" la lucrările realizate după acordarea ultimului titlu didactic/ grad profesional (**Ca1, I1** etc., după caz);
  - II - autorii în ordinea din publicație, cu scriere "bold" **a candidatului**;
  - III - *titlul*, scris "italic";
  - IV - editura sau revista sau manifestarea și/sau alte elemente de localizare, după caz;
  - V - intervalul de pagini din publicație, respectiv, pp ...-..., numărul total de pagini, respectiv, ... pg., sau alte date similare, după caz;
  - VI - anul sau perioada de realizare, după caz;
- (2) În cadrul fiecărui grup de lucrări (Ca1, Ca2 etc.; I1, I2 etc. ; ...), lucrările sunt în ordine invers cronologică;
- (3) În cazul în care o grupă de lucrări nu se regăsește în activitatea candidatului, respectiva grupă poate fi eliminată din listă;
- (4) Candidații au libertatea să completeze lista și cu alte grupe de lucrări.

**Data:**  
**09.01.2026**

**Candidat,**  
Robert-Gabriel Lupu

