

| Criteriu | Descriere | Punctaj |
|----------|--|------------------|
| A1.1.2 | <i>Cărți/monografii/capitole în edituri naționale recunoscute, ca autor</i> | |
| 1 | Machedon-Pisu M., Nedelcu A. V. - "Rețele de Achiziție Wireless pentru Comunicații Industriale", Editura Lux Libris, 2011, ISBN 978-973-131-113-5 | 25 |
| 2 | Machedon-Pisu M. - "Electrical Measurements", Editura Lux Libris, 2013, ISBN 978-973-131-229-3 | 50 |
| 3 | Machedon-Pisu M. - "Măsurări și Interfețe în Sisteme de Achiziții de Date. Implementări Practice", Editura Lux Libris, 2015, ISBN 978-973-131-333-7 | 50 |
| A1.2.1 | Material didactic/Lucrări didactice - Manuale didactice | |
| 1 | Oltean I. D., Machedon-Pisu M. - "Măsurări în Telecomunicații și Informatică Instrumentală", Editura Universității Transilvania, 2013, ISBN 978-606-19-0229-6 | 20 |
| | Minim A1: 50 | Total=145 |
| A2.1.1 | <i>Articole în reviste cotate ISI</i> | |
| 1 | Morariu, G., Machedon-Pisu, M., Ogrutan, P., Miron, M., Croitoru, O., Pascu, R., Bilici, A. – Influence of non-ionizing electromagnetic fields on redox systems in solutions, Environmental Engineering and Management Journal, 2014 (FI: 1.25) (revistă ISI Q3) | 9,289 |
| 2 | Borza, P. N., Machedon-Pisu, M., Hamza-Lup, F. – Design of Wireless Sensors for IoT with Energy Storage and Communication Channel Heterogeneity, Sensors, 2019 (FI: 3.03) (revistă ISI Q1) | 38,4633 |
| 3 | Machedon-Pisu, M., Borza, P. N. – Are Personal Electric Vehicles Sustainable? A Hybrid E-Bike Case Study, Sustainability, 2020 (FI: 2.59) (revistă ISI Q2) | 51,38 |
| | | +99 |
| A2.1.2 | <i>Volumele unor manifestări științifice indexate ISI proceedings</i> | |
| 1 | Machedon-Pisu, M., Szekely, I., Gavrus, R. – Efficient data propagation techniques and security concerns in low rate wireless personal area networks in outdoor and indoor scenarios , OPTIM, Brașov, 2008 (conferință IEEE) | 10,833 |
| 2 | Machedon-Pisu, M. – Range Tracking in Wireless Networks, DAAAM, Slovacia, 2008 | 32,5 |
| 3 | Nedelcu, A. V., Sandu, F., Machedon-Pisu, M., Stoianovici, V. – Wireless-based Remote Monitoring and Control of Intelligent Buildings, International Workshop on ROSE, Lecco, Italia, 2009 (conferință IEEE) | 6,5 |
| 4 | Morariu, G., Miron, M., Alexandru, M., Machedon-Pisu, M., Romanca, M. – The Influence of Low Intensity Microwave Electromagnetic Field on Aqueous Solutions, DAAAM, Viena, Austria, 2009 | 6,5 |
| 5 | Morariu, G., Alexandru, M., Miron, M., Romanca, M., Machedon-Pisu, M., Dobrescu, A. – Experiment-Supported Study On The Bipolar Disk Microstrip Antenna, DAAAM, Viena, Austria, 2009 | 5,416 |
| 6 | Machedon-Pisu, T., Machedon-Pisu, E., Machedon-Pisu, M. – Monitoring the Atmospheric Dust from Electric Arc Fusion welding in real-time, MEQAPS '09, Brașov, 2009 | 10,833 |
| 7 | Machedon-Pisu, M., Nedelcu, A.V., Szekely, I., Morariu, G., Miron, M., Kertesz, C. – Energy-efficient Tracking for Wireless Sensor Networks, International Workshop on ROSE, Lecco, Italia, 2009 (conferință IEEE) | 5,416 |
| 8 | Machedon-Pisu, M., Nedelcu, A.V., Alexandru, M., Romanca M., Morariu, G. – Monitoring Air Pollution In Industrial Environment With Wireless Interface, | 6,5 |

| | | |
|----------|---|------------------|
| | DAAAM, Viena, Austria, 2009 | |
| 9 | Stoianovici, V., Talabă, D., Nedelcu, A.V., Machedon-Pisu, M., Barbuceanu, F., Stavar, A. – A Virtual Reality Based Human-Network Interaction System for 3D Internet Applications, OPTIM, Braşov, 2010 (conferinţă IEEE) | 5,416 |
| 10 | Nedelcu, A. V., Talaba, D., Stoianovici, V, Machedon-Pisu, M., Szekely, I. – Conceptual Integration of Wireless Sensor Networks with 3D Environment, Intenational Conference on WCNIS, Beijing, China, 2010 (conferinţă IEEE) | 6,5 |
| 11 | Machedon-Pisu, M., Morariu, G. – New Calculation Methods for Stripline Resonators of Elliptic type and Application, OPTIM, Braşov, 2012 (conferinţă IEEE) | 16,25 |
| 12 | Dutcă, M. , Morariu, G., Machedon-Pisu, M., Croitoru, O. – Logarithmic Fractal Segment Antenna, OPTIM, Braşov, 2012 (conferinţă IEEE) | 8,125 |
| 13 | Morariu, G., Croitoru, O., Machedon-Pisu, M., Dutcă, M. – Side Effects of Microwaves in Aqueous Solutions, OPTIM, Braşov, 2012 (conferinţă IEEE) | 8,125 |
| 14 | Lozneau, D., Machedon-Pisu, M. – Microcontroller based device for power supply control in EMC practical classes, OPTIM, Braşov, 2012 (conferinţă IEEE) | 16,25 |
| 15 | Machedon-Pisu, M. – The Impact of Propagation Media and Radio Interference on the Performance of Wireless Sensor Networks with MicaZ Motes, OPTIM, Braşov, 2014 (conferinţă IEEE) | 32,5 |
| 16 | Machedon-Pisu, M., Morariu, G., Sandu, F. – RSSI-based Electromagnetic Propagation in Industrial Environments, RoEduNet, Chişinău, Rep. Moldova, 2014 (conferinţă IEEE) | 10,833 |
| 17 | Chitic, M., Machidon, O., Sandu, F., Balan, T., Machedon-Pisu, M. – Pattern Encryption with Cellular Automata - a LabVIEW implementation on FPGA, RoEduNet, Chişinău, Rep. Moldova, 2014 (conferinţă IEEE) | 6,5 |
| | | +195 |
| A2.2 | <i>Articole în reviste şi volumele unor manifestări ştiinţifice indexate în alte baze de date internaţionale (BDI)</i> | |
| 1 | Szekely, I., Stoianovici, V., Machedon-Pisu, M., Nedelcu, A.V. – Wireless Neural Signal Transmission in Biomedical Prosthetic Systems, SIITME, Gyula, Ungaria, 2009 (conferinţă IEEE) | 5 |
| 2 | Nedelcu, A. V., Machedon-Pisu, M., Duguleana, M, Talabă, D. – Pervasive radio mapping of industrial environments using a Virtual Reality approach, Hindawi - The Scientific World Journal (revistă BDI), 2015 | 5 |
| | | +10 |
| A2.4.1.1 | <i>Granturi/proiecte câştigate prin competiţie internaţională ca director/responsabil</i> | |
| 1 | SFERA2 (PROMES-CNRS): SOLSIN (Solar sintering of Cu-TiC-graphite for electrical contacts used in advanced telecom systems)- P1702060270, 2017 | +20 |
| | Minim A2: 300 | Total≅324 |
| A3.1.1 | <i>Citări în cărţi, reviste şi volume ale unor manifestări ştiinţifice - ISI</i> | |
| | Articol citat: A2.1.1 (1), 1 citare revistă ISI Q4 | 1,142 |
| | Articol citat: A2.1.1 (2), 4 citări reviste ISI Q1-Q2, 1 citare revistă ISI Q3 | 24 |
| | Articol citat: A2.1.1 (3), 1 citare revistă ISI Q3 | 4 |
| | Articol citat: A2.1.2 (1), 1 citare conferinţă ISI | 2,666 |
| | Articol citat: A2.1.2 (3), 4 citări reviste ISI Q1-Q2, 4 citări reviste Q4 şi conferinţe ISI | 19,2 |

| | | |
|--------|--|-----------------------------------|
| | Articol citat: A2.1.2 (7), 1 citare revistă ISI Q4 | 1,333 |
| | Articol citat: A2.1.2 (10), 1 citare revistă ISI Q1 | 3,2 |
| | Articol citat: A2.1.2 (15), 2 citări conferințe ISI | 16 |
| | Articol citat: A3.1 (1), 1 citare conferință ISI | 2 |
| | | +73,54 |
| A3.1.2 | <i>Citări în cărți, reviste și volume ale unor manifestări științifice - BDI</i> | |
| | Articol citat: A2.1.2 (3), 2 citări BDI | 1,6 |
| | Articol citat: A2.1.2 (9), 2 citări BDI | 1,333 |
| | Articol citat: A2.1.2 (10), 1 citare BDI | 0,8 |
| | Articol citat: A2.1.2 (14), 1 citare BDI | 2 |
| | Articol citat: A3.1 (1), 1 citare BDI | 1 |
| | | +6,73 |
| | Minim: 50 | Total\cong80 |
| | Minim total: 400 | Total\cong550 |

| Tip Criteriu | Denumire Criteriu | | |
|--------------|--|----------------|---------|
| 1.1.1.1.1 | Carti/monografii/capitole in edituri internationale recunoscute, ca autor; cel putin 50 biblioteci din strainatate conform catalogului WorldCat | | |
| 1.1.1.1.2 | Capitole in carti cu ISBN, in edituri internationale recunoscute, ca autor; cel putin 50 biblioteci din strainatate conform catalogului WorldCat | | |
| 1.1.1.2.1 | Carti/monografii/capitole in edituri internationale, care NU se regasesc in catalogul WorldCat, recunoscute ca autor | | |
| 1.1.1.2.2 | Capitole in carti cu ISBN, in edituri internationale, care NU se regasesc in catalogul WorldCat, recunoscute ca autor | | |
| | Carti/monografii/capitole in edituri nationale recunoscute, ca autor | | |
| | Descriere | Formula Calcul | Punctaj |
| | titluCc:Retele de Achizitie Wireless pentru Comunicatii Industriale editura:Lux Libris isbn:978 - 973 - 131 - 113 - 5 AnAparitie:2011 NrAutori:2 TotalNrPagini:226 http://www.luxlibris.ro/Aparitii/2011/Retele%20de%20Achizitie%20Wireless%20pentru%20Comunicatii%20Industriale.pdf | (50/2) | 25,000 |
| | titluCc:Electrical Measurements editura:Lux Libris isbn:978 - 973 - 131 - 229 - 3 AnAparitie:2013 NrAutori:1 TotalNrPagini:290 http://www.bibnat.ro/dyn-doc/publicatii/CIP/Bibliografia%20cartilor%20in%20curs%20de%20aparatie%20-%20CIP%20august%202013.pdf | (50/1) | 50,000 |
| 1.1.2.1 | titluCc:Masurari si Interfete in Sisteme de Achizitii de Date. Implementari Practice editura:LUX LIBRIS isbn:978-973-131-333-7 AnAparitie:2015 NrAutori:1 TotalNrPagini:1253 http://www.luxlibris.ro/Dovada_extinsa%20https://intranet.unitbv.ro/Portals/0/UserFiles/User923/Masurari_si_interfete_FRACS.pdf | (50/1) | 50,000 |
| 1.1.2.2 | Carti/monografii/capitole fara ISBN, in edituri nationale recunoscute, ca autor | | |
| 1.2.1 | Material didactic/Lucrari didactice - Manuale didactice | | |
| | Descriere | Formula Calcul | Punctaj |

| | | |
|---|--------------|------------|
| titluMm:MASURARI IN TELECOMUNICATII SI INFORMATICA INSTRUMENTALA Note de curs si Aplicatii editura:Editura Universitatii Transilvania din Brasov isbn:978 - 606 - 19 - 0299 - 6 AnAparitie:2013 NrAutori:2 TotalNrPagini:553 Dovada: https://intranet.unitbv.ro/Portals/0/UserFiles/User923/carte_3_2013.pdf | (40/2) | 20,000 |
| | TOTAL | 145 |
| | MINIM | 50 |

| | | | |
|---|---|-----------------------|----------------|
| 2.1.1 Articole in reviste cotate ISI | | | |
| | Descriere | Formula Calcul | Punctaj |
| | titlu:Design of Wireless Sensors for IoT with Energy Storage and Communication Channel Heterogeneity revista:Sensors issn:14248220 isbn:- AnAparitie:2019 nrAutori:3 zona:Q1 https://www.mdpi.com/1424-8220/19/15/3364 (Apare în Web Of Science) https://doi.org/10.3390/s19153364 | $((25+30*3.013)/3)$ | 38,4633 |
| | titlu:Are Personal Electric Vehicles Sustainable? A Hybrid E-Bike Case Study revista:Sustainability issn:20711050 isbn:- AnAparitie:2020 nrAutori:2 zona:Q2 https://www.mdpi.com/2071-1050/12/1/32 https://doi.org/10.3390/su12010032 (Apare în Web Of Science) | $((25+30*2.592)/2)$ | 51,38 |
| | titlu:INFLUENCE OF NON-IONIZING ELECTROMAGNETIC FIELDS ON REDOX SYSTEMS IN SOLUTIONS revista:ENVIRONMENTAL ENGINEERING AND MANAGEMENT JOURNAL issn:15829596 isbn:- AnAparitie:2014 nrAutori:7 zona: http://omicron.ch.tuiasi.ro/EEMJ/issues/vol13/vol13no10.htm Dovada: http://www.eemj.icpm.tuiasi.ro/pdfs/vol13/no10/24_149_Morariu_11.pdf (Apare în Web Of Science) | $((25+30*1.334)/7)$ | 9,289 |
| 2.1.2 Volumele unor manifestari stiintifice indexate ISI proceedings (Web Of Science) | | | |
| | titlu:Efficient Data Propagation Techniques and Security Concerns in Low Rate Wireless Personal Area Networks in Outdoor and Indoor Scenarios revista:OPTIM 2008 issn:18420133 isbn:978 - 973 - 131 - 028 - 2 AnAparitie:2008 nrAutori:3 zona: http://www.ieee.org/conferences_events/conferences/conferencedetails/index.html?Conf_ID=12943 Dovada: https://ieeexplore.ieee.org/document/4602480 (Apare în Web Of Science) | $((25+30*0.25)/3)$ | 10,833 |

| | | |
|--|-------------------------|---------------|
| <p>titlu:RANGE TRACKING IN WIRELESS NETWORKS revista:The 19th INTERNATIONAL DAAAM SYMPOSIUM Intelligent Manufacturing & Automation: Focus on Next Generation of Intelligent Systems and Solutions issn:17269679 isbn:978 - 3 - 901509 - 68 - 1 AnAparitie:2008 nrAutori:1 zona: http://www.thefreelibrary.com/Range+tracking+in+wireless+networks.-a0225316356 (Apare în Web Of Science)</p> | <p>((25+30*0.25)/1)</p> | <p>32,500</p> |
| <p>titlu:Monitoring the Atmospheric Dust from Electric Arc Fusion Welding in Real -Time revista:Proceedings of the 2nd International Conference on ENVIRONMENTAL and GEOLOGICAL SCIENCE and ENGINEERING (EG 09) issn:17902769 isbn:978 - 960 - 474 - 119 - 9 AnAparitie:2009 nrAutori:3 zona: http://www.wseas.us/e-library/conferences/2009/brasov/EG/EG28.pdf (Apare în Web Of Science)</p> | <p>((25+30*0.25)/3)</p> | <p>10,833</p> |
| <p>titlu:Energy-efficient Tracking for Wireless Sensor Networks revista:IEEE International Workshop on Robotic and Sensors Environments 2009 issn: isbn:978 - 1 - 4244 - 4778 - 7 AnAparitie:2009 nrAutori:6 zona: http://ieeexplore.ieee.org/xpl/mostRecentIssue.jsp?punumber=5351160 (Apare în Web Of Science) Dovada: https://ieeexplore.ieee.org/stamp/stamp.jsp?arnumber=5356000</p> | <p>((25+30*0.25)/6)</p> | <p>5,416</p> |
| <p>titlu:Wireless-based Remote Monitoring and Control of Intelligent Buildings revista:IEEE International Workshop on Robotic and Sensors Environments 2009 issn: isbn:978 - 1 - 4244 - 4778 - 7 AnAparitie:2009 nrAutori:5 zona: http://ieeexplore.ieee.org/xpl/mostRecentIssue.jsp?punumber=5351160 (Apare în Web Of Science) Dovada: https://ieeexplore.ieee.org/document/5355999?section=abstract</p> | <p>((25+30*0.25)/5)</p> | <p>6,500</p> |

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|--|------------------|-------|
| <p>titlu:MONITORING AIR POLLUTION IN INDUSTRIAL ENVIRONMENT WITH WIRELESS INTERFACE revista:20th International DAAAM Symposium, Viena, 2009 issn:17269679 isbn:978 - 3 - 901509 - 70 - 4 AnAparitie:2009 nrAutori:5 zona: http://www.freepatentsonline.com/article/Annals-DAAAM-Proceedings/224712526.html (Apare în Web Of Science) Dovada: https://www.researchgate.net/publication/261171098 MONITORING AIR POLLUTION IN INDUSTRIAL ENVIRONMENT WITH WIRELESS INTERFACE</p> | ((25+30*0.25)/5) | 6,500 |
| <p>titlu:The Influence of Low Intensity Microwave Electromagnetic Field on Aqueous Solutions revista:20th International DAAAM Symposium, Viena, 2009 issn:17269679 isbn:978 - 3 - 901509 - 70 - 4 AnAparitie:2009 nrAutori:5 zona: http://www.freepatentsonline.com/article/Annals-DAAAM-Proceedings/224712527.html (Apare în Web Of Science) Dovada: https://www.researchgate.net/publication/291308908 The influence of low intensity microwave electromagnetic field on aqueous solutions</p> | ((25+30*0.25)/5) | 6,500 |
| <p>titlu:Experiment-Supported Study on the Bipolar Disk Microstrip Antenna revista:20th International DAAAM Symposium, Viena, 2009 issn:17269679 isbn:978 - 3 - 901509 - 70 - 4 AnAparitie:2009 nrAutori:6 zona: http://www.freepatentsonline.com/article/Annals-DAAAM-Proceedings/224712528.html (Apare în Web Of Science) Dovada: https://www.thefreelibrary.com/Experiment-supported+study+on+the+bipolar+disk+microstrip+antenna-a0224712528</p> | ((25+30*0.25)/6) | 5,416 |
| <p>titlu:Conceptual Integration of Wireless Sensor Networks with 3D Environment revista:IEEE International Conference on Wireless Communications, Networking and Information Security (WCNIS), 2010 issn: isbn:978 - 1 - 4244 - 5851 - 6 AnAparitie:2010 nrAutori:5 zona: http://ieeexplore.ieee.org/xpl/mostRecentIssue.jsp?punumber=5524730 (Apare în Web Of Science) Dovada: https://www.semanticscholar.org/paper/Conceptual-integration-of-wireless-sensor-networks-Nedelcu-Talaba/af934a948cb4afdb1afce0ab9496cc22e9212d91</p> | ((25+30*0.25)/5) | 6,500 |

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| <p><u>titlu:A Virtual Reality Based Human-Network Interaction System for 3D Internet Applications</u> <u>revista:Proceedings of the 12th OPTIM International Conference, Braşov 2010 issn:18240133 isbn:978 - 1 - 4244 - 7020 - 4 AnAparitie:2010 nrAutori:6 zona:</u> <u>http://ieeexplore.ieee.org/xpl/mostRecentIssue.jsp?punumber=5507484 (Apare în Web Of Science)</u> Dovada: <u>https://ieeexplore.ieee.org/document/5510551</u></p> | $((25+30*0.25)/6)$ | 5,416 |
| <p><u>titlu:The Impact of Propagation Media and Radio Interference on the Performance of Wireless Sensor Networks with MicaZ Motes revista:The 14th International Conference on Optimization of Electrical and Electronic Equipment - OPTIM 2014 issn:18420133 isbn:978 - 1 - 4799 - 5183 - 3 AnAparitie:2014 nrAutori:1 zona: http://www.info-optim.ro/index.php (Apare în Web Of Science)</u> Dovada: <u>https://ieeexplore.ieee.org/document/6850911</u></p> | $((25+30*0.25)/1)$ | 32,500 |
| <p><u>titlu:Pattern encryption with cellular automata - A LabVIEW implementation on FPGA revista:RoEduNet Conference 13th Edition: Networking in Education and Research Joint Event RENAM 8th Conference, 2014 issn:20681038 isbn:- AnAparitie:2014 nrAutori:5 zona:</u> <u>http://conference.roedu.net/public/conferences/2/schedConfs/5/program-en_US.pdf (Apare în Web Of Science) Dovada: <u>https://ieeexplore.ieee.org/document/6955296</u></u></p> | $((25+30*0.25)/5)$ | 6,500 |
| <p><u>titlu:RSSI-based Electromagnetic Propagation in Industrial Environments revista:RoEduNet Conference 13th Edition: Networking in Education and Research Joint Event RENAM 8th Conference, 2014 issn:20681038 isbn:- AnAparitie:2014 nrAutori:3 zona:</u> <u>http://conference.roedu.net/public/conferences/2/schedConfs/5/program-en_US.pdf (Apare în Web Of Science) Dovada: <u>https://ieeexplore.ieee.org/document/6955315</u></u></p> | $((25+30*0.25)/3)$ | 10,833 |

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|--|---|-----------------------|----------------|
| | <p>titlu:New Calculation Methods for Stripline Resonators of Elliptic type and Application revista:Optimization of Electrical and Electronic Equipment (OPTIM) 2012 issn:----- isbn:978-1-4673-1653-8 AnAparitie:2012 nrAutori:2 zona: http://www.info-optim.ro/search.php?keywords=P2 (Apare în Web Of Science) Dovada: https://ieeexplore.ieee.org/document/6231988</p> | ((25+30*0.25)/2) | 16,250 |
| | <p>titlu:Logarithmic Fractal Segment Antenna revista:Optimization of Electrical and Electronic Equipment (OPTIM) 2012 issn:----- isbn:978-1-4673-1653-8 AnAparitie:2012 nrAutori:4 zona: http://www.info-optim.ro/search.php?keywords=P2 (Apare în Web Of Science) Dovada: https://ieeexplore.ieee.org/document/6231817</p> | ((25+30*0.25)/4) | 8,125 |
| | <p>titlu:Side Effects of Microwaves in Aqueous Solutions revista:Optimization of Electrical and Electronic Equipment (OPTIM) 2012 issn:----- isbn:978-1-4673-1653-8 AnAparitie:2012 nrAutori:4 zona: http://www.info-optim.ro/search.php?keywords=TT06 (Apare în Web Of Science) Dovada: https://ieeexplore.ieee.org/abstract/document/6231829</p> | ((25+30*0.25)/4) | 8,125 |
| | <p>titlu:Microcontroller based device for power supply control in EMC practical classes revista:Optimization of Electrical and Electronic Equipment (OPTIM) 2012 issn:----- isbn:978-1-4673-1653-8 AnAparitie:2012 nrAutori:2 zona: http://www.info-optim.ro/search.php?keywords=TT07 (Apare în Web Of Science) Dovada: https://ieeexplore.ieee.org/document/6231812</p> | ((25+30*0.25)/2) | 16,250 |
| | 2.2 Articole in reviste si volumele unor manifestari stiintifice indexate in alte baze de date internationale (BDI) | | |
| | Descriere | Formula Calcul | Punctaj |
| | <p>titlu:Wireless Neural Signal Transmission in Biomedical Prosthetic Systems revista:(SIITME) 2009 15th International Symposium for Design and Technology of Electronics Packages BDI1: issn:xxxxxxx isbn:978-1-4244-50330309 AnAparitie:2009 Autori:4 nivel: http://www.gbv.de/dms/tib-ub-hannover/620958170.pdf (Apare în Scopus)</p> | (20/[4]) | 5,000 |
| | <p>titlu:Pervasive Radio Mapping of Industrial Environments Using a Virtual Reality Approach revista:The Scientific World Journal BDI1: issn:23566140 isbn:- AnAparitie:2015 Autori:4 nivel: https://www.hindawi.com/journals/tswj/2015/701848/ (Apare în Scopus)</p> | (20/[4]) | 5,000 |
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|---------|---|-----------------------|----------------|
| 2.3.1 | Proprietate intelectuală, brevete de invenție, certificate ORDA - internaționale | | |
| 2.3.2 | Proprietate intelectuală, brevete de invenție, certificate ORDA - naționale | | |
| | Granturi/proiecte castigate prin competitie internațională ca Director/responsabil | | |
| | Descriere | Formula Calcul | Punctaj |
| | titlu:Solar sintering of Cu-TiC-graphite for electrical contacts used in advanced telecom systems perioada:20172017 finantator:PROMES CNRS Facilities NrContract:P1702060270 NrAniDerulare:1 | (20*[1]) | 20,000 |
| 2.4.1.1 | https://sfera2.sollab.eu/access/access_selected | | |
| 2.4.1.2 | Granturi/proiecte castigate prin competitie națională ca Director/responsabil | | |
| 2.4.2.1 | Granturi/proiecte castigate prin competitie internațională - membru în echipă | | |
| 2.4.2.2 | Granturi/proiecte castigate prin competitie națională - membru în echipă | | |
| | | TOTAL | 324,13 |
| | | MINIM | 300 |

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|-------|---|--|------------------|
| 3.1.1 | Citări în cărți, reviste și volume ale unor manifestări științifice - ISI | | |
| | Descriere | Formula Calcul | Punctaj |
| | 1. Morariu, G., Machedon-Pisu, M., Ogrutan, P., Miron, M., Croitoru, O., Pascu, R., Bilici, A. – Influence of non-ionizing electromagnetic fields on redox systems in solutions, Environmental Engineering and Management Journal, 2014, <i>Citat de:</i> 1) [ISI Q4] Nica, I., David, V., Pavel, I., & Sălceanu, A. (2016). Automatic long term survey of magnetic fields in residential areas. Instrumentation and measurements. Environmental Engineering and Management Journal, 15(12), 26–28. https://doi.org/10.30638/eemj.2016.289 (dovada în ISI Web of Science) | 1) (8*[1]/7) | 1,142 |
| | 2. Borza, P. N., Machedon-Pisu, M., & Hamza-Lup, F. (2019). Design of wireless sensors for iot with energy storage and communication channel heterogeneity. Sensors (Switzerland), 19(15). https://doi.org/10.3390/s19153364 , <i>Citat de:</i> 2.1) [ISI Q1] Zhang, X., Zhang, B., An, K., Chen, Z., & Guo, D. (2019). Auction-based secondary relay | 2.1) (2*8*[1]/3) 2.2) (2*8*[1]/3) | 5,333 x4 + 2,666 |

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|--|--|------------------|--|-------|
| | <p>selection on overlay spectrum sharing in hybrid satellite–terrestrial sensor networks. <i>Sensors</i> (Switzerland), 19(22). https://doi.org/10.3390/s19225039 (dovada in ISI Web of Knowledge)</p> <p>2.2) [ISI Q1] Xia, X., Yang, B., Liu, Z., An, K., & Guo, K. (2019). Performance Evaluation of a Full-Duplex Relaying-Enabled Satellite Sensor Network. <i>Sensors</i> (Switzerland), 19(24), https://doi.org/10.3390/s19245453 (dovada in ISI Web of Knowledge)</p> <p>2.3) [ISI Q2] Liu, X., Dai, H.-N., Wang, H., & Shoaib, M. (2020). UAV-enabled data acquisition scheme with directional wireless energy transfer for Internet of Things. <i>Computer Communications</i>, vol. 155, 184-196, https://doi.org/10.1016/j.comcom.2020.03.020 (dovada in ISI Web of Knowledge)</p> <p>2.4) [ISI Q1] Zeadally, S., Shaikh, F. K., Talpur, A., & Shang, Q. (2020). Design architectures for energy harvesting in the Internet of Things, <i>Renewable and Sustainable Energy Reviews</i>, Vol.128, https://doi.org/10.1016/j.rser.2020.109901 (dovada in ISI Web of Knowledge)</p> <p>2.5) [ISI Q3] Motjoadi, V., Bokoro, P. N., & Onibonoje, M.O. (2020) A Review of Microgrid-Based Approach to Rural Electrification in South Africa: Architecture and Policy Framework <i>Energies</i> (Switzerland), 13(9), https://doi.org/10.3390/en13092193 (dovada in ISI Web of Knowledge)</p> | 2.3) (2*8*[1]/3) | | |
| | | 2.4) (2*8*[1]/3) | | |
| | | 2.5) (8*[1]/3) | | |
| | <p>3. Machedon-Pisu, M., Szekely, I., Gavrus, R. – Efficient data propagation techniques and security concerns in low rate wireless personal area networks in outdoor and indoor scenarios , OPTIM, Braşov, 2008 (indexată ISI Web of Knowledge, conferinţă IEEE), <i>Citat de:</i></p> <p>3) [ISI conference] Rossi, M. J. (2009). Spatial diversity for short range communication in home care systems using one antenna element. In <i>Proceedings - 2009 3rd International Conference on Sensor Technologies and Applications, SENSORCOMM 2009</i> (pp. 171–174). https://doi.org/10.1109/SENSORCOMM.2009.35 (dovada in ISI Web of Knowledge la citarea nr5 a articolului)</p> | 3) (8*[1]/3) | | 2,666 |
| | <p>4. Machedon-Pisu, M., Nedelcu, A.V., Szekely, I., Morariu, G., Miron, M., Kertesz, C. – Energy-efficient Tracking for Wireless Sensor Networks, International Workshop on ROSE, Lecco, Italia, 2009 (indexată ISI Web of Knowledge, conferinţă IEEE), <i>Citat de:</i></p> <p>4) [ISI Q4] Kameyama, K., Miyamoto, T., Iwata, Y., & Shiono, T. (2016). Influences of feedstock and</p> | 4) (8*[1]/6) | | 1,333 |

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|----|--|--|------------------------------|
| | <p>pyrolysis temperature on the nitrate adsorption of biochar. <i>Soil Science and Plant Nutrition</i>, 62(2), 180–184. https://doi.org/10.1080/00380768.2015.1136553 (dovada in ISI Web of Knowledge: DE PUS IN FISA CNATDCU)</p> | | |
| 5. | <p>Nedelcu, A. V., Sandu, F., Machedon-Pisu, M., Stoianovici, V. – Wireless-based Remote Monitoring and Control of Intelligent Buildings, International Workshop on ROSE, Lecco, Italia, 2009 (indexată ISI Web of Knowledge, conferință IEEE), Citat de:</p> <p>5.1) [ISI Q2] Daponte, P., De Vito, L., Picariello, F., & Riccio, M. (2013). <i>State of the art and future developments of measurement applications on smartphones. Measurement: Journal of the International Measurement Confederation</i>. https://doi.org/10.1016/j.measurement.2013.05.006 (dovada in ISI Web of Knowledge)</p> <p>5.2) [ISI Q1] Suárez-Albela, M., Fraga-Lamas, P., Fernández-Caramés, T. M., Dapena, A., & González-López, M. (2016). <i>Home automation system based on intelligent transducer enablers. Sensors (Switzerland)</i>, 16(10). https://doi.org/10.3390/s16101595 (dovada in ISI Web of Knowledge)</p> <p>5.3) [ISI Q1] Froiz-Míguez, I., Fernández-Caramés, T. M., Fraga-Lamas, P., & Castedo, L. (2018). <i>Design, implementation and practical evaluation of an iot home automation system for fog computing applications based on MQTT and ZigBee-WiFi sensor nodes. Sensors (Switzerland)</i>, 18(8). https://doi.org/10.3390/s18082660 (dovada in ISI Web of Knowledge) BUT WITHOUT 2.666 (2x instead of 1x)</p> <p>5.4) [ISI Q2] Peng, C., & Qian, K. (2014). <i>Development and Application of a ZigBee-Based Building Energy Monitoring and Control System. Scientific World Journal</i>, 2014. https://doi.org/10.1155/2014/528410 (dovada in ISI Web of Knowledge)</p> <p>5.5) [ISI Q4] Peng, C., & Huang, J. (2016). <i>A home energy monitoring and control system based on ZigBee technology. International Journal of Green Energy</i>, 13(15), 1615–1623. https://doi.org/10.1080/15435075.2016.1188102 (este in ISI Web of Knowledge, Dovada la citarea</p> | <p>5.1) (2*8*[1]/5) 5.2) (2*8*[1]/5) 5.3) (2*8*[1]/5) 5.4) (2*8*[1]/5) 5.5) (8*[1]/5) 5.6) (8*[1]/5) 5.7) (8*[1]/5) 5.8) (8*[1]/5)</p> | <p>3,2 x 4 + 1,6 x 4</p> |

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|--|---|--|-------|
| | <p>nr33 a articolului: https://www.tandfonline.com/doi/ref/10.1080/15435075.2016.1188102?scroll=top</p> <p>5.6) [ISI Q4] Watanabe, A. T. Y., Nied, A., Leal, A. B., & De Sousa, A. H. (2012). ZigBee MAC wireless network implementation using a remote virtual interface. <i>IEEE Latin America Transactions</i>, 10(2), 1511–1517. https://doi.org/10.1109/TLA.2012.6187594 (dovada in ISI Web of Knowledge)</p> <p>5.7) [ISI conference] Agrawal, S., & Prakash, R. N. (2014). Implementation of WSN which can simultaneously monitor temperature conditions and control robot for positional accuracy. In <i>Proceeding of the IEEE International Conference on Green Computing, Communication and Electrical Engineering, ICGCCCEE 2014</i>. https://doi.org/10.1109/ICGCCCEE.2014.6921387 (dovada in ISI Web of Knowledge la citarea nr8 a articolului)</p> <p>5.8) [ISI conference] Earle, B., Bjornson, K., Boi-Ukeme, J., & Wainer, G. (2019). Design and implementation of a building control system in real-time devs. In <i>Simulation Series (Vol. 51)</i>. https://doi.org/10.23919/SpringSim.2019.8732922 (dovada in ISI Web of Knowledge)</p> | | |
| | <p>6. Nedelcu, A. V., Talaba, D., Stoianovici, V., Machedon-Pisu, M., Szekely, I. – Conceptual Integration of Wireless Sensor Networks with 3D Environment, <i>Intenational Conference on WCNIS, Beijing, China, 2010</i> (indexată ISI Web of Knowledge, conferință IEEE), <i>Citat de:</i></p> <p>6) [ISI Q1] Valverde, J., Otero, A., Lopez, M., Portilla, J., de la Torre, E., & Riesgo, T. (2012). Using SRAM based FPGAs for power-aware high performance wireless sensor networks. <i>Sensors</i>, 12(3), 2667–2692. https://doi.org/10.3390/s120302667 (dovada in ISI Web of Knowledge) BUT WITHOUT 2.666 (2x instead of 1x)</p> | 6) (2*8*[1]/5) | 3,2 |
| | <p>7. Machedon-Pisu, M. – The Impact of Propagation Media and Radio Interference on the Performance of Wireless Sensor Networks with MicaZ Motes, OPTIM, Braşov, 2014 (indexată ISI Web of Knowledge, conferință IEEE), <i>Citat de:</i></p> <p>7.1) [ISI conference] Galvan-Tejada, G. M., Flores-Leal, R., Sanchez-Gomez, F., & Barrera-Figueroa, V. (2016). On the importance of the vertical radiation pattern on simulations of WSNs. In <i>2016 13th</i></p> | <p>7.1) (8*[1]/1) 7.2) (8*[1]/1)</p> | 8 + 8 |

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|-------|--|--|----------------|
| | <p>International Conference on Electrical Engineering, Computing Science and Automatic Control, CCE 2016. https://doi.org/10.1109/ICEEE.2016.7751257 (dovada in ISI Web of Knowledge)</p> <p>7.2) [ISI conference] Mori, Y., Nguyen, X. T., & Pham, C. K. (2017). Reliable and energy-efficient transmission on the Internet-of-Video-Things. In 2017 17th International Symposium on Communications and Information Technologies, ISCIT 2017 (Vol. 2018–January, pp. 1–4). https://doi.org/10.1109/ISCIT.2017.8261237 (dovada in ISI Web of Knowledge la citarea nr8 a articolului)</p> | | |
| | <p>8. Szekeley, I., Stoianovici, V., Machedon-Pisu, M., Nedelcu, A.V. – Wireless Neural Signal Transmission in Biomedical Prosthetic Systems, SIITME, Gyula, Ungaria, 2009 (conferință IEEE-indexată BDI), Citat de: 8) [ISI conference] Cloutier, A., & Yang, J. (2013). Control of hand prostheses- A literature review. In Proceedings of the ASME Design Engineering Technical Conference (Vol. 6 A). https://doi.org/10.1115/DETC2013-13349 (dovada in ISI Web of Knowledge la citarea nr82 a articolului)</p> | 8) (8*[1]/4) | |
| | | | 2 |
| | <p>9. (NEW) Machedon-Pisu, M., Borza, P. N. (2020). Are Personal Electric Vehicles Sustainable? A Hybrid E-Bike Case Study. Sustainability (Switzerland), 12(1), 32. https://doi.org/10.3390/su12010032, Citat de: 9) [ISI Q3] Li, Y., Jin, T., Liu, L., & Yuan, K. (2020). Dynamic Performance Simulation and Stable Current Collection Analysis of a Pantograph Catenary System for Trolley Wire Overhead Electrically Actuated LHD . Energies, 13(5), 1015. https://doi.org/10.3390/en13051015 (dovada in ISI Web of Knowledge)</p> | 9) (8*[1]/2) | |
| | | | 4 |
| 3.1.2 | Citari in carti, reviste si volume ale unor manifestari stiintifice - BDI | | |
| | Descriere | Formula Calcul | Punctaj |
| | <p>1. Nedelcu, A. V., Sandu, F., Machedon-Pisu, M., Stoianovici, V. – Wireless-based Remote Monitoring and Control of Intelligent Buildings, International Workshop on ROSE, Lecco, Italia, 2009 (indexată ISI Web of Knowledge, conferință IEEE), Citat de: 1.1) [BDI] García, V. H., & Vega, N. (2018). Low Power sensor node applied to domotic using IoT. In</p> | <p>1.1) (4*[1]/5) 1.2) (4*[1]/5)</p> | 0,8 + 0,8 |

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|--|---|---|---------------|
| | <p><i>Communications in Computer and Information Science</i> (Vol. 944, pp. 56–69). https://doi.org/10.1007/978-3-030-03763-5_6 (dovada in Scopus la citarea nr12 a articolului)</p> <p>1.2) [BDI] Lu, X., Li, Y., & Tang, Y. (2016). Design of a ZigBee-based intelligent household electricity monitoring and control information system. <i>Acta Technica CSAV (Ceskoslovensk Akademie Ved)</i>, 61(4), 1–7. https://www.researchgate.net/publication/322629071_Design_of_a_ZigBee-based_intelligent_household_electricity_monitoring_and_control_information_system (dovada in Scopus la citarea nr3 a articolului)</p> | | |
| | <p>2. Nedelcu, A. V., Talaba, D., Stoianovici, V, Machedon-Pisu, M., Szekely, I. – Conceptual Integration of Wireless Sensor Networks with 3D Environment, Intenational Conference on WCNIS, Beijing, China, 2010 (indexată ISI Web of Knowledge, conferință IEEE), <i>Citat de:</i></p> <p>2) [BDI] Ke, T., Sun, H., & Liu, J. Y. (2013). A Wireless Sensor Network routing algorithm based on 3D cell space. <i>Dianzi Yu Xinxi Xuebao/Journal of Electronics and Information Technology</i>, 35(6), 1298–1304. https://doi.org/10.3724/SP.J.1146.2012.01248, http://pub.chinasciencejournal.com/JournalofElectronics&InformationTechnology/30512.ihtml (dovada in Scopus la citarea nr3 a articolului)</p> | 2) (4*[1]/5) | 0,8 |
| | <p>3. Stoianovici, V., Talabă, D., Nedelcu, A.V., Machedon-Pisu, M., Barbuceanu, F., Stavar, A. – A Virtual Reality Based Human-Network Interaction System for 3D Internet Applications, OPTIM, Braşov, 2010 (indexată ISI Web of Knowledge, conferință IEEE), <i>Citat de:</i></p> <p>3.1) [BDI] Martin, K. A., & Laviola, J. J. (2017). The Transreality Interaction Platform: Enabling Interaction across Physical and Virtual Reality. In <i>Proceedings - 2016 IEEE International Conference on Internet of Things; IEEE Green Computing and Communications; IEEE Cyber, Physical, and Social Computing; IEEE Smart Data, iThings-GreenCom-CPSCoM-Smart Data 2016</i> (pp. 177–186). https://doi.org/10.1109/iThings-GreenCom-CPSCoM-SmartData.2016.54 (dovada in Scopus)</p> <p>3.2) [BDI] Fadda, M., Murrone, M., Popescu, V., & Stoianovici, V. C. (2012). Cooperative spectrum sensing for geo-location databases. In <i>Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering</i> (Vol. 79 LNICST, pp. 78–83). https://doi.org/10.1007/978-3-642-30419-4_8 (dovada in Scopus)</p> | <p>3.1) (4*[1]/6)</p> <p>3.2) (4*[1]/6)</p> | 0,666 + 0,666 |
| | <p>4. Lozneau, D., Machedon-Pisu, M. – Microcontroller based device for power supply control in EMC practical classes, OPTIM, Braşov, 2012 (indexată ISI Web of Knowledge, conferință IEEE), <i>Citat de:</i></p> | 4) (4*[1]/2) | 2 |

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| | 4) [BDI] Ab Aziz, A. W., Rahim, N., Amirhussain, A. H., & Norddin, N. B. (2017). Intelligent tenaga nasional berhad (TNB) single phase power supply cut-off. <i>Journal of Telecommunication, Electronic and Computer Engineering</i> , 9(2–7), 55–58. (dovada in Scopus la citarea nr9 a articolului) https://pdfs.semanticscholar.org/cb5d/e9b612adf0bdb74ec1f856cbd2b22983062a.pdf | | |
| | 5. Szekely, I., Stoianovici, V., Machedon-Pisu, M., Nedelcu, A.V. – Wireless Neural Signal Transmission in Biomedical Prosthetic Systems, SIITME, Gyula, Ungaria, 2009 (conferință IEEE-indexată BDI), Citat de: 5) [BDI] Cloutier, A., & Yang, J. (2013). Design, control, and sensory feedback of externally powered hand prostheses: A literature review. <i>Critical Reviews in Biomedical Engineering</i> , 41(2), 161–181. https://doi.org/10.1615/CritRevBiomedEng.2013007887 (dovada in Scopus) | 5) (4*[1]/4) | 1 |
| | | TOTAL | 73,542 +6,733 =80,275 |
| | | MINIM | 50 |



Rezolutia Comisiei Științifice:

Membrii Comisiei Științifice:

- 1.Prof.dr. Mihai IVANOVICI
- 2.Prof.dr. Florin MOLDOVEANU
- 3.Prof.dr. Doru URSUTIU

Standardele sunt îndeplinite:

☒ DA ☐ NU
☒ DA ☐ NU
☒ DA ☐ NU

DA
D.Ursutiu

Semnături