

UNIVERSITATEA POLITEHNICA DIN BUCURESTI

FIȘA DE VERIFICARE A ÎNDEPLINIRII STANDARDELOR DE PROFESOR

CANDIDAT ȚAPU C. Ruxandra-Georgiana

Condiții	Îndeplinire condiții	
A. Doctor	Diploma de Doctor în domeniul Inginerie Electronică și Telecomunicații Seria H, Nr. 0000299 din 09.01.2012 emisă de Universitatea Politehnica din București Diplomă de Doctor specializarea Informatică din 07.12.2012, Nr. INTEVRY 5188854, emisă de Universitatea Pierre et Marie Curie (Paris 6) în cotutelă cu Telecom SudParis.	
B. Îndeplinirea standardelor minime naționale conform OMECTS nr. 6129/20.12.2016; MO, I, 123/15.02.2017 [Conferențiar, Comisia CNATDCU nr. 11]	Standarde îndeplinite, conform Comisiei CNATDCU Nr.11, Comisia de Electronică, Telecomunicații și Nanotehnologie. Anexată: Fișa de calcul și de susținere a îndeplinirii standardelor minime specifice domeniului, în acord cu realizările menționate:	
Condiții minimale [Punctaj]	Minim prevăzut	Realizat
A1. Activitatea didactică și profesională	100	112.5
A2. Activitatea de cercetare	600	860.8
A3. Recunoașterea și impactul activității	150	536.98
TOTAL (A)	850	1510.28
Condiții minimale obligatorii pe subcategorii [Număr]	Minim prevăzut	Realizat
A1.1.1 - A1.1.2. Cărți și capitole în cărți de specialitate	1	4
A2.1. Articole în reviste cotate ISI și în volumele unor manifestări științifice indexate ISI proceedings	15 / minim 3 în reviste cotate Q1 sau Q2	43 / 7
A2.4.1. Granturi/proiecte câștigate prin competiție (Director/responsabil)	2	4
A3.1.1 - A3.1.2 Număr de citări în cărți, reviste și volume ale unor manifestări științifice ISI (WOS)	25	136
Factor de impact cumulat pentru publicații	10	31.486
C. Atestarea studiilor (diploma + Foi Matricole) și a altor realizări profesionale	Diploma de Licență , în domeniul Inginerie Economică Nr. 4366 din 27.06.2008 emisă de Universitatea Politehnica din București, Facultatea de Electronică, Telecomunicații și Tehnologia Informației Supliment la diploma de inginer : Seria G, Nr. 4366. Media anilor de studii: 10.00 Media examenelor de diplomă: 10.00	
	Atestare studii psihopedagogice Certificat de absolvire Nr. 0044472 din data 14.12.2010, Departamentul pentru pregătirea personalului didactic, Nivelul I; Certificat de absolvire Nr. 0044550 din data 14.12.2010, Departamentul pentru pregătirea personalului didactic, Nivelul II;	
	Alte Acte de atestare a studiilor/realizărilor profesionale.....	

Subsemnata ȚAPU C. Ruxandra-Georgiana, Departam. de Telecomunicații Facultatea de Electronică, Telecomunicații și Tehnologia Informației, din Domeniul de Studii Univ. Telecomunicații, arondat Comisiei de Specialitate CNATDCU [OMECTS 4106/2016] Nr. 11., Electronică, Telecomunicații și Nanotehnologie, declar pe propria răspundere, cunoscând prevederile art. 292 privind falsul în declarații, din Legea 286/2009 - Codul Penal, ca sunt îndeplinite toate Standardele minime prevăzute de Metodologia UPB 2017 pentru susținerea tezei de abilitare și OMECTS 6129/2016 [C + P], în momentul înscrierii la concurs, și susțin veridicitatea informațiilor prezentate în dosar și în materialul de mai sus. Lucrările considerate a fi incluse în Baza ISI Thomson Reuters sau în alte Baze de Date Internaționale [BDI] sunt vizibile în aceste baze, în dreptul numelui candidatului, la aceasta data.

Candidat,
ȚAPU C. Ruxandra Georgiana

Data
14.10.2019

ÎN CONTINUARE: Fișa de calcul și de susținere a îndeplinirii standardelor minime specifice domeniului, în acord cu realizările menționate

A1	Activitatea didactică și profesională (A1)	112.5
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A1.1.1.	Cărți și capitole în cărți de specialitate în edituri recunoscute internaționale [100 pct publicație / nr autori]	
1	R. Tapu and T. Zaharia - "Video Segmentation and Structuring for Indexing Applications", in Multimedia Data Engineering Applications and Processing, IGI-Global printing House, Hershey, PA, USA, Eds. Shu-Ching Chen and Mei-Ling Shyu, ISBN: 978-1-4666-2940-0, vol. 2, pp. 205-225, 2011. doi: http://dx.doi.org/10.4018/978-1-4666-2940-0.ch011	12.5
Total A 1.1.1		12.5

A1.1.2.	Cărți și capitole în cărți de specialitate în edituri recunoscute naționale [50 pct publicație / nr autori]	
1	R. Tapu , B. Mocanu - „Sisteme de compresie și codare video”, Editura Politehnica Press, ISBN: 978-606-515-506-0, 118 pagini, 2013.	25
2	B. Mocanu, R. Tapu - „Rețele de comunicații și sisteme multimedia”, Editura Politehnica Press, ISBN: 978-606-515-380-6, 194 pagini, 2012.	25
3	E. Tapu, B. Mocanu, R. Tapu – „Design și procesare imagistică”, Editura Cavallioti, ISBN: 978-606-551088-3, 259 pagini, 2017.	16,67
Total A 1.1.2		66,67

A1.2.1.	A1.2.1 Material didactic / Lucrări didactice publicate în edituri cu ISBN (Manuale didactice) [40 pct / nr. autori]	
1	R. Tapu , B. Mocanu, „Compresia semnalelor multimedia”, Editura Cavallioti, ISBN: 978-606-551100-2, 79 pagini, 2018.	20
2.	D. Ciurea, M. Răducanu, R. Tapu – „Tehnici și sisteme de transmisiuni multiplex” – Lucrări de seminar și îndrumar de laborator, Constanța, Editura Nautică, ISBN 978-606-6810-27-2, 2014.	13.33
Total A 1.2.1		33.33

A2	Activitatea de cercetare (A2)	860.8
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A2.1.	Articole în reviste cotate și în volumele unor manifestări științifice indexate ISI proceedings [(25 pct + 30 pct * factor impact) / nr. de autori]	Nr. autori	Factor de impact [la data depunerii dosarului]*	Punctaj
1	R. Tapu , B. Mocanu, T. Zaharia: "DEEP-HEAR: A Multimodal Subtitle Positioning System Dedicated to Deaf and Hearing-Impaired People," in IEEE Access, vol. 7, pp. 88150-88162, 2019. http://dx.doi.org/10.1109/ACCESS.2019.2925806 , WOS:000476810500044 (Q1 - în anul publicării 2019; Domeniul: Computer science, information systems)	3	4.098	49.31
2	B. Mocanu, R. Tapu , T. Zaharia: „Design of a CNN Face Recognition System Dedicated to Blinds”, 2019 IEEE International Conference on Consumer Electronics (ICCE), Las Vegas, NV, USA, pp. 1-2, 2019, http://dx.doi.org/10.1109/ICCE.2019.8661933 , WOS: 000462912600043.	3	0.25	10.83
3	R. Tapu , B. Mocanu, T. Zaharia: „Face Recognition in Video Streams for Mobile Assistive Devices Dedicated to Visually Impaired”, 14th International Conference on Signal-Image Technology & Internet-Based Systems (SITIS), Las Palmas de Gran Canaria, Spain, pp. 137-142, 2018, http://dx.doi.org/10.1109/SITIS.2018.00030 , WOS: 000469258400019	3	0.25	10.83
4	B. Mocanu, R. Tapu , T. Zaharia: "DEEP-SEE FACE: A Mobile Face Recognition System Dedicated to Visually Impaired People," in IEEE Access, vol. 6, pp. 51975-51985, 2018. http://dx.doi.org/10.1109/ACCESS.2018.2870334 , WOS: 000447704600001 (Q1 - în anul publicării 2018; Domeniul: Computer science, information systems)	3	4.098	49.31
5	R. Tapu , B. Mocanu, T. Zaharia, "Wearable assistive devices for visually impaired: A state of the art survey", <i>Pattern Recognition Letters</i> 2018, http://dx.doi.org/10.1016/j.patrec.2018.10.031 , WOS: (Q2 – în anul publicării 2018; Domeniul: Computer Science, Artificial Intelligence)	3	2.81	36.43
6	D. Taralunga, B. Mocanu, R. Tapu , "Automatic real time derivation of breathing rate from thermal video sequences", European Medical and Biological Engineering Conference - Nordic-Baltic Conference on Biomedical Engineering and Medical Physics (EMBEC 2017), pp. 81-84, 11-15 Iunie 2017, Tampere, Finlanda. DOI: https://doi.org/10.1007/978-981-10-5122-7_21 . WOS: 000449778900021	4	0.25	8.12
7	R. Tapu , B. Mocanu, T. Zaharia: "DEEP-SEE: Joint Object Detection, Tracking and Recognition with Application to Visually Impaired Navigational Assistance" Sensors (Basel). 28.10.2017; vol. 17(11), pp. 1-24, DOI: http://dx.doi.org/10.3390/s17112473 , WOS:000416790500035, (Q1 – în anul publicării 2017; Domeniul: Instruments & Instrumentation)	3	3.031	38.64
8	B. Mocanu, R. Tapu and T. Zaharia, "Single object tracking using offline trained deep regression networks," 2017 Seventh International Conference on Image Processing Theory, Tools and Applications (IPTA), Montreal, QC, pp. 1-6, 2017. DOI: http://dx.doi.org/10.1109/IPTA.2017.8310091 , WOS:000428743900015.	3	0.25	10.83
9	B. Mocanu, R. Tapu , T. Zaharia, "Automatic Extraction of Story Units from TV News", 35th edition of the IEEE International Conference on Consumer Electronics (ICCE 2017),	3	0.25	10.83

	pp. 414-415, 8-11 Ianuarie 2017, Las Vegas, SUA. DOI: http://dx.doi.org/10.1109/ICCE.2017.7889377 ; WOS :000403392300172			
10	B. Mocanu, R. Tapu , T. Zaharia, "Seeing without sight – An automatic cognition system dedicated to blind and visually impaired people", International Conference on Computer Vision (ICCV 2017) Workshops, pp. 1452-1459, 22-29 Octombrie 2017, Venetia, Italia. DOI: http://dx.doi.org/10.1109/ICCVW.2017.172 ; WOS :000425239601056	3	0.75	15.83
11	R. Tapu , B. Mocanu, T. Zaharia, "A computer vision-based perception system for visually impaired", Multimedia Tools and Applications, pp. 1-37, 2017, DOI: http://dx.doi.org/10.1007/s11042-016-3617-6 ; WOS :000400845000037. (Q2 – in anul publicarii 2017; Domeniul: Computer Science, Software Engineering)	3	2.101	29.34
12	B. Mocanu, R. Tapu , T. Zaharia, „Object tracking using deep convolutional neural networks and visual appearance models”, in Advanced Concepts for Intelligent Vision Systems (ACIVS 2017), Editors: J. Blanc-Talon, D. Popescu, W. Philips and P. Scheunders, pp. 439-450, 2017, DOI: https://doi.org/10.1007/978-3-319-70353-4_10 . (BDI : Springerlink), WOS : 000463335100010	3	0.42	12.53
13	B. Mocanu, D. Taralunga, R. Tapu , E. Tapu, "Respiratory rate estimation using nostril detection in thermal video streams", E-Health and Bioengineering Conference (EHB 2017), pp. 201-204, 22-24 Iunie 2017, Sinaia, Romania. DOI: https://doi.org/10.1109/EHB.2017.7995396 , WOS : 000445457500051	4	0.25	8.12
14	B. Mocanu, R. Tapu , T. Zaharia, "Using computer vision to see", European Conference on Computer Vision (ECCV), in Springer International Publishing Switzerland 2016, G. Hua and H. Jegou (Eds.): Part II, LNCS 9914, pp. 375-390, 2016, ISBN: 978-3-319-48880-6; DOI: http://dx.doi.org/10.1007/978-3-319-48881-3_26 ; WOS :000389501700026.	3	0.75	15.83
15	B. Mocanu, R. Tapu and T. Zaharia, "Automatic segmentation of TV News into stories using visual and temporal information", in Springer Berlin Heidelberg, Advances in Visual Computing, LNCS – Lecture Notes in Computer Science, Editors: Blanc-Talon, J., Distant, C., Philips, W., Popescu, D., Scheunders, P., vol. I, pp. 648-660, 2016, ISBN 978-3-319-48680-2; DOI: http://dx.doi.org/10.1007/978-3-319-48680-2_57 . WOS : 000390177400057	3	0.42	12.53
16	B. Mocanu, R. Tapu , T. Zaharia, "Image re-ranking using graph based spanning structures and reciprocal nearest neighbors", 34th edition of the International Conference on Consumer Electronics(ICCE 2016), pp. 437-438, ISSN: 2158-4001, DOI: https://doi.org/10.1109/ICCE.2016.7430681 , 7-11 Ianuarie 2016, Las Vegas, SUA. WOS :000386327000183	3	0.25	10.83
17	B. Mocanu, R. Tapu and E. Tapu, "Video retrieval using relevant topics extraction from movie subtitles," 2016 12th IEEE International Symposium on Electronics and Telecommunications (ISETC), Timisoara, pp. 327-330, 2016; IEEE Xplore, ISBN: 978-1-5090-3748-3, DOI: http://dx.doi.org/10.1109/ISETC.2016.7781123 , WOS :000390717800073	3	0.25	10.83
18	R. Tapu , B. Mocanu, T. Zaharia, "TV News Retrieval based on Story Segmentation and Concept Association", The 12th International Conference on Signal Image Technology and Internet based Systems (SITIS 2016), 28 Noiembrie - 1 Decembrie 2016, Naples, Italy, pp. 327-334, ISBN: 978-1-5090-5698-9, DOI: http://dx.doi.org/10.1109/SITIS.2016.60 , WOS :000406473000051	3	0.25	10.83
19	B. Mocanu, R. Tapu , T. Zaharia, "When Ultrasonic Sensors and Computer Vision Join Forces for Efficient Obstacle Detection and Recognition", Sensors, 16(11):1807, pp. 1-23, 2016, ISSN 1424-8220, DOI: http://dx.doi.org/10.3390/s16111807 ; WOS :000389641700040. (Q1 – in anul publicarii 2016; Domeniul: Instruments & Instrumentation)	3	3.031	38.64
20	B. Mocanu, R. Tapu and T. Zaharia, "An Obstacle Categorization System for Visually Impaired People", 11th International Conference on Signal-Image Technology & Internet-Based Systems (SITIS), Thailand, Bangkok, pp. 147-154, 2015. ISBN: 978-1-4673-9721-6, DOI: http://dx.doi.org/10.1109/SITIS.2015.58 ; WOS :000380406500023	3	0.25	10.83
21	R. Tapu , B. Mocanu, T. Zaharia, "ALICE: A smartphone assistant used to increase the mobility of visual impaired people", Journal of Ambient Intelligence and Smart Environments, vol. 7, no. 5, pp. 659-678, 2015, ISSN: 1876-1364, DOI: http://dx.doi.org/10.3233/AIS-150336 , WOS :000361063200006 (Q2 – in anul publicarii 2015; Domeniul: Computer Science, Information Systems)	3	1.063	18.97
22	R. Tapu , B. Mocanu, T. Zaharia, "Automatic Assistant for Better Mobility and Improved Cognition of Partially Sighted Persons," Advances in Electrical and Computer Engineering, ISSN: 1582-7445, vol.15, no.3, pp.45-52, 2015, DOI: http://dx.doi.org/10.4316/AECE.2015.03006 ; WOS :000360171500006.	3	0.661	14.94
23	B. Mocanu, R. Tapu , T. Zaharia, "3D Object Metamorphosis with Pseudo Metameshes," Advances in Electrical and Computer Engineering, ISSN: 1582-7445, vol.15, no.1, pp.115-122, 2015, DOI: http://dx.doi.org/10.4316/AECE.2015.01016 ; WOS :000352158600016.	3	0.661	14.94
24	B. Mocanu, R. Tapu and T. Zaharia, "Efficient graph spanning structures for large database image retrieval," 2015 3rd IAPR Asian Conference on Pattern Recognition (ACPR), Kuala Lumpur, 2015, pp. 594-598. ISSN: 2327-0985, DOI: http://dx.doi.org/10.1109/ACPR.2015.7486572 ; WOS :000389269300119.	3	0.25	10.83
25	B. Mocanu, R. Tapu and T. Zaharia, "An outdoor cognition system integrated on a regular smartphone device", E-Health and Bioengineering Conference (EHB), Iasi, Romania, pp. 1-4, 2015. ISBN: 978-1-4673-7545-0, DOI: http://dx.doi.org/10.1109/EHB.2015.7391375 ; WOS :000380397900028	3	0.25	10.83
26	R. Tapu , B. Mocanu, T. Zaharia - "Real time static/dynamic obstacle detection for visually	3	0.25	10.83

	impaired persons", IEEE International Conference on Consumer Electronics (ICCE), pp. 394 - 395, 10-13 Jan. 2014, ISSN: 2158-4001, DOI: http://dx.doi.org/10.1109/ICCE.2014.6776055 , WOS:000352510400174			
27	R. Tapu , B. Mocanu, E. Tapu – “Automatic extraction of salient objects in 3D stereoscopic videos”, 11th International Symposium on Electronics and Telecommunications (ISETC), ISBN: 978-1-4799-7265-4/14, pp. 249-252, Timișoara, Romania, Noiembrie 2014; DOI: http://dx.doi.org/10.1109/ISETC.2014.7010794 ; WOS:000366633300058	3	0.25	10.83
28	R. Tapu , B. Mocanu, E. Tapu – “A survey on wearable devices used to assist the visual impaired user navigation in outdoor environments”, 11th International Symposium on Electronics and Telecommunications (ISETC), ISBN: 978-1-4799-7265-4/14, pp. 245-248, Timișoara, Romania, Noiembrie 2014; DOI: http://dx.doi.org/10.1109/ISETC.2014.7010793 ; WOS:000366633300057	3	0.25	10.83
29	B. Mocanu, R. Tapu , E. Tapu – “Mesh deformation with hard constraints”, International Symposium on Signals, Circuits and Systems (ISSCS), pp. 1-4, Iasi, 11-12 July 2013; ISBN: 978-1-4673-6143-9, DOI: http://dx.doi.org/10.1109/ISSCS.2013.6651208 ; WOS:000337926700041	3	0.25	10.83
30	R. Tapu , B. Mocanu, E. Tapu – “Automatic scene/DVD chapter extraction in Hollywoodian movies”, International Symposium on Signals, Circuits and Systems (ISSCS), pp. 1-4, Iasi, 11-12 July 2013; ISBN: 978-1-4673-6143-9, DOI: http://dx.doi.org/10.1109/ISSCS.2013.6651209 ; WOS:000337926700042	3	0.25	10.83
31	R. Tapu , T. Zaharia - “Salient object detection based on spatiotemporal attention models”, IEEE International Conference on Consumer Electronics (ICCE), ISBN: 978-1-4673-1363-6, pp. 41-44, Las Vegas, Nevada, Ianuarie 2013, http://dx.doi.org/10.1109/ICCE.2013.6486786 ; WOS:000318797800018	2	0.25	16.25
32	R. Tapu , B. Mocanu, T. Zaharia - "A computer vision system that ensure the autonomous navigation of blind people", E-Health and Bioengineering Conference (EHB), pp.1- 4, 21-23 Nov. 2013; ISBN: 978-1-4799-2373-1, DOI: http://dx.doi.org/10.1109/EHB.2013.6707267 ; WOS:000346672900035	3	0.25	10.83
33	R. Tapu , B. Mocanu, A. Bursuc, T. Zaharia - "A Smartphone-Based Obstacle Detection and Classification System for Assisting Visually Impaired People", International Conference On Computer Vision ICCV Workshops, pp.444 - 451, 1-8 Dec. 2013; ISBN: 978-1-4799-3022-7, DOI: http://dx.doi.org/10.1109/ICCVW.2013.65 ; WOS:000349847200061	4	0.75	11.88
34	R. Tapu , B. Mocanu, E. Tapu – “Salient Object Detection in Video Streams”, 10th International Symposium on Electronics and Telecommunications (ISETC 2012), ISBN: 978-1-4673-1176-2, pp. 275-278, Timișoara, Romania, Noiembrie 2012; DOI: http://dx.doi.org/10.1109/ISETC.2012.6408089 ; WOS:000318702700064	3	0.25	10.83
35	R. Tapu , T. Zaharia - “Video Structuring: From Pixels to Visual Entities”, 20th European Signal Processing Conference (EUSIPCO-2012), pp. 1583-1587, Bucharest, 27-31 August 2012; WOS:000310623800318	2	0.25	16.25
36	B. Mocanu, R. Tapu , T. Petrescu and E. Tapu, “An experimental evaluation of 3D mesh decimation techniques”, 10-th International Symposium on Signals, Circuits and Systems, ISSCS 2011, ISBN: 978-1-4577-0201-3, pp. 35-38, Iași, Romania, 2011; DOI: http://dx.doi.org/10.1109/ISSCS.2011.5978647 ; WOS:000337925400009	4	0.25	8.13
37	R. Tapu , B. Mocanu, M. Raducanu and T. Petrescu, “Multiresolution median filtering based video temporal segmentation”, 10-th International Symposium on Signals, Circuits and Systems, ISSCS 2011, ISBN: 978-1-4577-0201-3, pp. 47-50, Iasi, Romania, 2011; DOI: http://dx.doi.org/10.1109/ISSCS.2011.5978651 ; WOS:000337925400012	4	0.25	8.13
38	R. Tapu and T. Zaharia – „Scene change detection with temporally constrained clustering”, 3rd International Conference on Future Computer and Communications – ICFCC, ISBN: 978-0-7918-5971-1, pp. 71-76, Iasi, Romania, 3-5 June 2011; WOS:000320410200011	2	0.25	16.25
39	R. Tapu , E. Tapu, B. Mocanu and E. Dragulanescu, “A survey of the low-level descriptors used for content based multimedia retrieval”, Metalurgia International ISSN: 1582-2214, vol. 14, pp. 12-15, 2009; Revistă ISI in anul publicării 2009 WOS:000270962400002	4	0.148	7.36
40	B. Mocanu, E. Tapu, R. Tapu and E. Dragulanescu, “A complete survey of the 3D shape methods representation”, Metalurgia International 2009, ISSN: 1582-2214, vol. 14, pp. 16-20, 2009; Revistă ISI in anul publicării 2009 WOS:000270962400003 –	4	0.148	7.36
41	E. Tapu, R. Tapu and I. Simion, “Simulation techniques of the contact resistance in adhesive conductors”, Metalurgia International 2009, ISSN: 1582-2214, vol. 14(5), pp. 45-51, 2009; Revistă ISI in anul publicării 2009, WOS:000265002400008 .	3	0.148	9.81
42	E. Tapu, R. Tapu , B. Mocanu and E. Dragulanescu, “Researches on maximizing the generated power of a nanosatellite solar panels”, Metalurgia International 2009, ISSN: 1582-2214, vol. 14(6), pp. 57-62, 2009; Revistă ISI in anul publicării 2009, WOS:000265002600011	4	0.148	7.36
43	B. Mocanu, M. Burlacu, J. Kohlenberg, M. Prathaban, P. Lorenz and R. Tapu , "Determining optimal orbital path of a nanosatellite for efficient exploitation of the solar energy captured", First International Conference on Advances in Satellite and Space Communications – SPACOMM 2009 (ISI), ISBN: 978-0-7695-3694-1, pp. 128-133, Colmar, France, 20-25 July 2009; DOI: http://dx.doi.org/10.1109/SPACOMM.2009.23 ; WOS:000278100200024	6	0.25	5.42
Total A 2.1		661.79		

*Se considera factorul de impact ISI al revistei valabil în anul publicării sau la data depunerii dosarului. Pentru volumele manifestărilor ISI se consideră factorul de impact echivalent 0,25. Se consideră factorul de impact echivalent 0,75 pentru volumele conferințelor internaționale de top (cele de nivel 2 sau mai mare din lista agreată de comisia CNATDCU și indicată în nota de subsol 10.

A2.2.	Articole în reviste și volumele unor manifestări științifice indexate în alte baze de date internaționale [20 pct /nr.aurori]	Nr. autori	Punctaj
1	R. Tapu , B. Mocanu, E. Tapu and T. Petrescu, "Structure from motion using unordered sets of images", Scientific Bulletin, Series C on Electrical Engineering and Computer Science, University „Politehnica” of Bucharest, ISSN 2286-3540, vol.77(4), pp. 155 – 166, 2015 http://www.scientificbulletin.upb.ro/rev_docs_arhiva/full91_154176.pdf . (BDI: Scopus)	4	5.00
2	R. Tapu , T. Zaharia - "A complete framework for temporal video segmentation", The 1st International Conference on Consumers Electronics, ICCE-2011, ISBN: 978-1-4577-0234-1, pp. 156-160, Berlin, Germany, 2011; IEEE Xplore, doi: http://dx.doi.org/10.1109/ICCE-Berlin.2011.6031875 (BDI: IEEE Xplore)	2	10.00
3	R. Tapu , B. Mocanu and T. Petrescu, - "A Complete Framework For Video Temporal Segmentation", Scientific Bulletin, Series C on Electrical Engineering and Computer Science, University „Politehnica” of Bucharest, ISSN 1454-234, vol.73(4), pp. 235 – 246, 2011. http://www.scientificbulletin.upb.ro/rev_docs_arhiva/full29698.pdf . (BDI: Scopus)	3	6.67
4	R. Tapu and T. Zaharia, "Automatic Multilevel Temporal Video Structuring," 2011 IEEE Fifth International Conference on Semantic Computing, Palo Alto, CA, 2011, pp. 387-394, IEEE Xplore, http://dx.doi.org/10.1109/ICSC.2011.39 (BDI: IEEE Xplore)	2	10.00
5	B. Mocanu, R. Tapu and T. Petrescu, - "Open 3D Mesh Parameterization Based On Edge Ratio Preservation", Scientific Bulletin, Series C on Electrical Engineering and Computer Science, University „Politehnica” of Bucharest, ISSN 1454-234, vol.73 (4), pp. 169 – 180, 2011; http://www.scientificbulletin.upb.ro/rev_docs_arhiva/full96570.pdf . (BDI: Scopus)	3	6.67
6	R. Tapu , T. Zaharia and F. Preteux, - "A scale-space filtering-based shot detection algorithm", IEEE 26th Convention of Electrical and Electronics Engineers in Israel, ISBN: 978-1-4244-8682-3, pp.919-923, Eilat, Israel, 2010; IEEE Xplore, http://dx.doi.org/10.1109/EEEI.2010.5661943 (BDI: IEEE Xplore)	3	6.67
Total A 2.1		45.01	

A2.3.1.	Proprietate intelectuală, brevete de invenție, certificate ORDA, internaționale [35 pct /nr.aurori]	Nr. autori	Punctaj
Total A 2.3.1		0.00	

A2.3.2.	Proprietate intelectuală, brevete de invenție, certificate ORDA, naționale [25 pct /nr.aurori]	Nr. autori	Punctaj
Total A 2.3.1		0.00	

A2.4.1.1.	Granturi / proiecte internaționale câștigate prin competiție - Director de proiect /Responsabil de partener [20 * ani in desfășurare]	Nr. ani	Punctaj
	Proiect FUI Fonds National pour la société Numérique - "Subtil - Amélioration automatisée des services d'accessibilité en multimédia " proiect de cercetare colaborativ sustinut prin programul francez Pôle de competitivité Cap Digital, Programme d'Investissement d'Avenir, 2017 -2019, Coodonat de: France Television., Buget: 1.625 k€, <i>Responsabil de partener</i> (Coodonator al echipei de cercetare a partenerului Institute Mines-Telecom/Telecom SudParis): ȚAPU Ruxandra. https://www.francetelevisions.fr/lab	3	60
Total A2.4.1.1.		60.00	

A2.4.1.2.	Granturi / proiecte naționale câștigate prin competiție - Director de proiect / Responsabil de partener [10 * ani in desfășurare]	Nr. ani	Punctaj
1	Proiect UEFSCDI Resurse Umane (TE) - "Sistem inteligent de navigație în mediul exterior destinat persoanelor cu dizabilități vizuale - SEE", PN-II-RU-TE-2014-4-0202, Coordonator Universitatea Politehnica Bucuresti, Buget: 122000 euro, <i>Director de proiect</i> : ȚAPU Ruxandra https://uefiscdi.gov.ro/userfiles/file/PN%20II_RU_TE%202014/REZULTATE%20FINALE_PROIECTE%20ACCEPTATE%20LA%20FINANTAR E/RUTE_2014_Lista%20proiecte%20acceptate%20la%20finantare_Matematica.pdf	2	20.00
2	Excellence Research Grants Program, UPB – GEX. Identifier: UPB–EXCELENȚĂ–2017 Research project: „Autonomous obstacle detection and recognitions system based on deep convolutional neural networks dedicated to visually impaired people”, Buget: 22000Ron, Nr. 40/25.09.2017, <i>Director de proiect</i> : ȚAPU Ruxandra https://upb.ro/wp-content/uploads/2017/11/Rezultate_Finala_UPB-GEX2017-final.pdf	1	10.00
3	Proiect UEFSCDI Resurse Umane (MCD) – „Automatic caption synchronization and positioning”, PN-III-P1-1.1-MCD-2019-0157, Coordonator Universitatea Politehnica Bucuresti, Buget: 46000Ron, <i>Director de proiect</i> : ȚAPU Ruxandra https://uefiscdi.gov.ro/resource-826519?&wtok=&wtoks=XYIBDolwEEXvMmvBtPtSGO5gTDxBoRWBgEWwIsR4d0s3RlfzM3nvf00vVYSBksZ0KZUEaBumnmOMgSnbTU3oVGB4KUwYdJLZ7wZ1mwsErticLJsozQmxVal2qaDVAExszX42kvFOM1r5mss5HU72fHEaVAFCnyrczW4c9BRvAlpt1o825KkdzhtKVfjhlYs1f748qH57HUy931foT2/QE=&wehk=631a30c6490bfed476800c204741f96eb814d1e	0.1	1.00
Total A2.4.1.1.		31.00	

A2.4.2.1.	Granturi / proiecte internaționale câștigate prin competiție – Membru în echipă [4 * ani in desfășurare]	Nr. ani	Punctaj
1	“GaVPro Developing a Galileo Vector Processing Receiver for Difficult Signal Conditions” - Contract de cercetare internațional finantat de ESA, Nr: 4000114741/15/NL/ MM_EGEP ID 89.29	2	8.00
2	“AlgoFab - Ecosystème de Services pour la Valorisation d’Algorithmes de Traitement de Contenus Multimédia”, - membru în proiect de cercetare colaborativ sustinut prin programul francez de cercetare Investissements d’Avenir, Développement de l’Economie Numérique,	2.5	10.00

	Informatique en nuage		
3	„Smart City + - Plateforme numérique de services d’hyperproximité” - membru în proiect de cercetare colaborativ susținut de Uniunea Europeană prin programul de Competitivitate și Inovare	2	8.00
4	“ALICE (Assistance for Better Mobility and Improved Cognition of Elderly Blind and Visually Impaired)” - membru în proiect de cercetare colaborativ susținut prin programul european AAL (Ambient Assisted Living) - AAL-2011-4-099	2.5	10.00
5	„MultiXE/MNEMOS - Multimédia numérique enrichi multi-modal optimisé et sémantique” – membru în cadrul laboratorului comun UBIMEDIA stabilit între Institut Mines-Télécom France și Alcatel Lucent Bell Labs France.	1	4.00
6	„3D-LIVE” – membru în proiect de cercetare colaborativ susținut prin programul francez FUI7 (Fonds Unique Interministériel).	1	4.00
7	"Media4DPlayer" - membru în proiect de cercetare colaborativ susținut prin programul francez FUI7 (Fonds Unique Interministériel), BPI și Regiunea Ile-de-France.	2	8.00
Total A2.4.2.1.			52.00

A2.4.2.2.	Granturi / proiecte naționale câștigate prin competiție – Membru în echipă [2 * ani in desfășurare	Nr. ani	Punctaj
1	“ Expertiza store tehnico (stare metal) a recipientelor scadente ISCIR din cadrul CET Bucuresti Vest in vederea autorizarii functionarii de către ISCIR”, Contract în cadrul PNCD II - 12/08.II.2011	2	4.00
2	Excellence Research Grants Program, UPB – GEX. Identifier: UPB–EXCELENȚĂ–2016 Research project: „Sistem autonom cu abilități cognitive de asistare a deplasării autovehiculelor inteligente”, Nr. 97/26.09.2016.	1	2.00
3	POSDRU/159/1.5/S/132395 - InnoRESEARCH - Burse doctorale și postdoctorale în sprijinul inovării și competitivității în cercetare” am participat, în calitate de cercetător postdoctoral.	1.5	3.00
4	POSDRU/86/1.2/S/61810 - Proiect de cercetare - PROMISE „Sistem integrat de programe de masterat în domeniul ingineriei de sunet, imagine și al aplicațiilor multimedia” în calitate de expert clasa A.	1	2.00
Total A2.4.2.2.			11.00

A3	Recunoașterea și impactul activității (A3)	536.98
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A3.1.1.	Citări în cărți, reviste și volume ale unor manifestări științifice ISI [8 pct /nr. autori citați]. Se dublează punctajul dacă citarea provine dintr-o revista cotată ISI aflată printre primele 50% în cadrul subdomeniului de acreditare ISI din punct de vedere al factorului de impact (zonele Q1 – Q2 în notația ISI)	Nr. autori citați	Punctaj
	B. Mocanu, R. Tapu and T. Zaharia, “Automatic segmentation of TV News into stories using visual and temporal information”, in Springer Berlin Heidelberg, Advances in Visual Computing, LNCS – Lecture Notes in Computer Science, Editors: Blanc-Talon, J., Distant, C., Philips, W., Popescu, D., Scheunders, P., vol. I, pp. 648-660, ISBN 978-3-319-48680-2, 2016; http://dx.doi.org/10.1007/978-3-319-48680-2_57 . WOS: 000390177400057		
1	Qu, B., Vallet, F., Carrive, J: „Content-based unsupervised segmentation of recurrent TV programs using grammatical inference”. <i>Multimed Tools Appl</i> (2017) 76: 22569. https://doi.org/10.1007/s11042-017-4816-5 1-29; WOS: 000412748200035. Q2	3	5.33
	R. Tapu, B. Mocanu, E. Tapu – “A survey on wearable devices used to assist the visual impaired user navigation in outdoor environments”, 11th International Symposium on Electronics and Telecommunications (ISETC), ISBN: 978-1-4799-7265-4/14, pp. 245-248, Timișoara, Romania, Noiembrie 2014; http://dx.doi.org/10.1109/ISETC.2014.7010793 ; WOS: 000366633300057		
1	Elmannai, Wafa, and Khaled Elleithy. "Sensor-Based Assistive Devices for Visually-Impaired People: Current Status, Challenges, and Future Directions." <i>Sensors</i> 17, no. 3 (2017): 565. WOS: 000398818700138, Q1	3	5.33
2	Bhowmick, A. and Hazarika, " An insight into assistive technology for the visually impaired and blind people: state-of-the-art and future trends", <i>S.M. J Multimodal User Interfaces</i> (2017) 11: 149. https://doi.org/10.1007/s12193-016-0235-6 ; WOS: 000401927400003	3	2.67
3	Pirsa, A; Rokic, L; Vdovic, H; Vertlberg, L; Zilak, M; Car, Z; Podobnik, V, "Analysis of ICT-based assistive solutions for people with disabilities," 2017 14th International Conference on Telecommunications (ConTEL), Zagreb, 2017, pp. 13-18. doi: 10.23919/ConTEL.2017.8000013; WOS: 000427070900005	3	2.67
4	Anthierens, C; Groux, D; Hugel, V, “Sensory navigation guide for visually impaired sea kayakers”, <i>Journal Of Field Robotics</i> , Volume: 35, Issue: 5, Pages: 732-747, DOI: https://doi.org/10.1002/rob.21775 , WOS: 000437836900006, Q1	3	5.33
5	Khan, I; Khusro, S; Ullah, I, “Technology-assisted white cane: evaluation and future directions”, <i>PEERJ</i> , vol. 6, doi: 10.7717/peerj.6058 , WOS: 000452726400005, Q2	3	5.33
6	Silva, J; Arezes, P; Costa, N; Braga, AC; Schierl, R, „Cytostatic-drugs handling in hospitals: Impact of contamination at occupational environments ”, <i>Occupational Safety And Hygiene VI</i> , pp. 613-616, 2018, WOS: 000460606900108	3	2.67
7	Araujo, ER; Rodrigues, C; Martins, LB, „Facilitators for safety of visually impaired on the displacements in external environments: A systematic review ”, <i>Occupational Safety And Hygiene VI</i> , pp. 371-375, 2018, WOS: 000460606900066	3	2.67
8	Elmannai, WM; Elleithy, KM, „A Highly Accurate and Reliable Data Fusion Framework for Guiding the Visually Impaired ”, vol.6, pp. 33029-33054, <i>IEEE ACCESS</i> , 2018 doi: 10.1109/ACCESS.2018.2817164, WOS: 000438525100001, Q1	3	5.33
9	Chuang, TK; Lin, NC; Chen, JS; Hung, CH ; Huang, YW; Teng, C ; Huang, H; Yu, LF; Giarre, L; Wang, HC, „Deep Trail-Following Robotic Guide Dog in Pedestrian Environments for People who	3	2.67

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11	Raees, M., and S. Ullah, GIFT: Gesture-Based Interaction by Fingers Tracking, an Interaction Technique for Virtual Environment, International Journal of Interactive Multimedia and Artificial Intelligence, pp. 115-125, 2019, https://doi.org/10.9781/ijimai.2019.01.002 , WOS: 000469285200015	3	2.67
12	Raees, M., and S. Ullah, EVEN-VE: Eyes Visibility Based Egocentric Navigation for Virtual Environments, International Journal of Interactive Multimedia and Artificial Intelligence, pp. 141-151, 2018, https://doi.org/10.9781/ijimai.2018.08.002 , WOS: 000451874400016	3	2.67
	B. Mocanu, R. Tapu and T. Zaharia, “An Obstacle Categorization System for Visually Impaired People”, 11th International Conference on Signal-Image Technology & Internet-Based Systems (SITIS), Thailand, Bangkok, pp. 147-154, 2015. doi: http://dx.doi.org/10.1109/SITIS.2015.58 ; WOS: 000380406500023		
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4	C. S. Silva and P. Wimalaratne, "State-of-art-in-indoor navigation and positioning of visually impaired and blind," 2017 Seventeenth International Conference on Advances in ICT for Emerging Regions (ICTER), Colombo, 2017, pp. 1-6. Doi: 10.1109/ICTER.2017.8257826; WOS: 000425224200036	3	2.67
5	Malek S, Melgani F, Mekhalfi ML, Bazi Y. Real-Time Indoor Scene Description for the Visually Impaired Using Autoencoder Fusion Strategies with Visible Cameras. Sensors (Basel, Switzerland). 2017;17(11):2641. doi:10.3390/s17112641; WOS: 000416790500203; Q1	3	5.33
6	W. M. Elmannai and K. M. Elleithy, „A novel obstacle avoidance system for guiding the visually impaired through the use of fuzzy control logic,” 2018 15th IEEE Annual Consumer Communications & Networking Conference (CCNC), Las Vegas, NV, 2018, pp. 1-9. DOI: 10.1109/CCNC.2018.8319310, WOS: 000432253500152	3	2.67
7	Yang, K.; Wang, K.; Bergasa, L.M.; Romera, E.; Hu, W.; Sun, D.; Sun, J.; Cheng, R.; Chen, T.; López, E. Unifying Terrain Awareness for the Visually Impaired through Real-Time Semantic Segmentation. <i>Sensors</i> 2018 , <i>18</i> , 1506. WOS: 000435580300205; Q2	3	5.33
8	Jishnu Sankara S.Adarshb K.I.Ramachandranc, “Performance Evaluation of Ultrasonic and Infrared Waves on Human Body and Metal Surfaces for Mobile Robot Navigation”, International conference on Advanced Materials (SCICON), Volume: 5, Issue: 8, Pages: 16516-16525, Part: 3, 2018. Doi:10.1016/j.matpr.2018.06.007, WOS: 000441301700062.	3	2.67
9	Elmannai, WM; Elleithy, KM, „A Highly Accurate and Reliable Data Fusion Framework for Guiding the Visually Impaired ”, vol.6, pp. 33029-33054, IEEE ACCESS, 2018 doi: 10.1109/ACCESS.2018.2817164, WOS: 000438525100001, Q1	3	5.33
10	S. Rahman, S. Ullah and S. Ullah. Obstacle Detection in Indoor Environment for Visually Impaired Using Mobile Camera. Journal of Physics: Conference Series, volume 960, No. 1, pages 012046, IOP Publishing, 2018. Doi: http://dx.doi.org/10.1088/issn.1742-6596 WOS: 000446125300046	3	2.67
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12	Araujo, ER; Rodrigues, C; Martins, LB, „Facilitators for safety of visually impaired on the displacements in external environments: A systematic review ”, Occupational Safety And Hygiene VI, pp. 371-375, 2018, WOS: 000460606900066	3	2.67
13	Silva, J; Arezes, P; Costa, N; Braga, AC; Schierl, R, „Cytostatic-drugs handling in hospitals: Impact of contamination at occupational environments ”, Occupational Safety And Hygiene VI, pp. 613-616, 2018, WOS: 000460606900108	3	2.67
14	A. C. Bing Chun, L. Bee Theng, A. C. Wei Yen, L. Deverell, A. A. Mahmud and C. McCarthy, "An Autonomous LiDAR Based Ground Plane Hazards Detector for the Visually Impaired," 2018 IEEE-EMBS Conference on Biomedical Engineering and Sciences (IECBES), Sarawak, Malaysia, 2018, pp. 346-351. http://dx.doi.org/10.1109/IECBES.2018.8626675 ; WOS: 000458669700068	3	2.67
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1	Kang, Mun-Cheon, Sung-Ho Chae, Jee-Young Sun, Jin-Woo Yoo, and Sung-Jea Ko. "A novel obstacle detection method based on deformable grid for the visually impaired." Consumer Electronics, IEEE Transactions on 61, no. 3 (2015): 376-383. WOS:000363237100014; Q2	3	5.33
2	Lakde, Chaitali K., and Prakash S. Prasad. "Navigation System for Visually Impaired People." International Journal of Advanced Research in Computer and Communication Engineering 4, no. 1, pp.166-168, 2015, doi: http://dx.doi.org/10.17148/IJARCCE.2015.4134 , WOS:000380541600017	3	2.67
3	Jakob, Judith, and József Tick. "Concept for transfer of driver assistance algorithms for blind and visually impaired people." Applied Machine Intelligence and Informatics (SAMI), 2017 IEEE 15th International Symposium on. IEEE, 2017. WOS:000406005700042	3	2.67
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4	Bhattacharya, Nandita, and Jaya Sil. "Image retrieval using extended bag-of-visual-words." Advances in Computing, Communications and Informatics (ICACCI), 2016 International Conference on. IEEE, 2016. WOS:000392503100324	3	2.67
5	Elmannai, Wafa, and Khaled Elleithy. "Sensor-Based Assistive Devices for Visually-Impaired People: Current Status, Challenges, and Future Directions." Sensors 17, no. 3 (2017): 565. WOS:000398818700138, Q1	3	5.33
6	W. M. Elmannai and K. M. Elleithy, „A novel obstacle avoidance system for guiding the visually impaired through the use of fuzzy control logic,” 2018 15th IEEE Annual Consumer Communications & Networking Conference (CCNC), Las Vegas, NV, 2018, pp. 1-9. http://dx.doi.org/10.1109/CCNC.2018.8319310 , WOS:000432253500152	3	2.67
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Total A3.1.1		470.7	

A3.1.2.	Citări în cărți, reviste și volume ale unor manifestări științifice BDI [4 pct /nr. autori citați]	Nr. autori citați	Punctaj
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	Total A3.1.2	36.29	

A3.4.	Premii în domeniu - Academia Romana, ASTR, academii de ramura, premii internaționale [15pct]	Punctaj
1	Premiul II „young reseacher” în cadrul conferinței internaționale E-Health and Bioengineering, Noiembrie 2013 http://www.ehbconference.ro/2013/Prizes.aspx	15.00
2	Premiul I „young reseacher” în cadrul conferinței internaționale E-Health and Bioengineering, Noiembrie 2015 http://www.ehbconference.ro/Portals/0/Diplme%20YR.pdf	15.00
	Total A 3.3.2	30.00