

UNIVERSITATEA TRANSILVANIA din BRAȘOV
Facultatea: INGINERIE MECANICĂ
Departamentul: AUTOVEHICULE ȘI TRANSPORTURI
DOMENIUL: Inginerie Mecanică, Mecatronică și Robotică

Fisa de îndeplinire a standardelor minimale

POST: CONFERENȚIAR Pozitia: 16

CANDIDAT:

Șef lucr. dr. ing. Florin GÎRBACIA

Fisa de îndeplinire a standardelor minimale necesare si obligatorii pentru conferirea titlului de conferențiar universitar (Anexa nr. 17 din MONITORUL OFICIAL AL ROM ANIEI, PARTEA I, Nr. 890 bis/27.XII.2012, COMISIA INGINERIE MECANICA, MECATRONICA SI ROBOTICA).

MONITORUL OFICIAL AL ROMÂNIEI, PARTEA I, Nr. 890 bis/27.XII.2012

Tabelul 3. Standarde minimale pentru domeniile științifice “Inginerie mecanică, mecatronică și robotică”

Crit.	Profesor universitar	Cercetător Științific gr. I	Conferențiar universitar	Cercetător Științific gr. II
CDI	Minim 10 puncte, din care minim 6 puncte CDI-ART	Minim 10 puncte, din care minim 6 puncte din CDI-ART	Minim 5 puncte, din care minim 3 puncte din CDI-ART	Minim 5 puncte, din care minim 3 puncte din CDI-ART
DID	Minim 10 puncte, din care minim 6 puncte din DID-MSD	Nu se aplică	Minim 5 puncte, din care minim 3 puncte din DID-MSD	Nu se aplică
RIA	Minim 10 puncte	Minim 10 puncte	Minim 5 puncte	Minim 5 puncte

Categoria: Conferențiar Universitar			
Nr. Crt.	Domeniul de activitate	Minim de îndeplinit (puncte)	Punctaj calculat
1.	Activitate de cercetare științifică, dezvoltare tehnologică și inovare (CDI)	Minim 5 puncte, din care minim 3 puncte din CDI-ART (<i>Articole științifice publicate în reviste de specialitate cotate ISI, sau în reviste/volume indexate ISI sau BDI</i>)	71.055 puncte din care 61.275 din CDI-ART
2.	Activitate didactică și profesională (DID)	Minim 5 puncte, din care minim 3 puncte din DID-MSD (<i>Manuale suport curs, format tipărit sau format electronic</i>)	15.2 puncte din care 9.2 puncte din DID-MSD
3.	Recunoaștere și impactul activității (RIA)	Minim 5 puncte, din care contribuție principală minim 3 puncte în calitate de director grant/proiect	82.293 puncte din care 15.4 puncte contribuție principală ca director/responsabil proiect
TOTAL		15 puncte	168.548 puncte

Structura activității candidatului

1. Activitate de cercetare științifică, dezvoltare tehnologică și inovare (CDI)

Indicatori CDI	Descriere	Punctaj	Observații	Punctaj
CDI-ART (min. 60% din punctaj standard minimal)	Articole științifice publicate în reviste de specialitate cotate ISI, sau în reviste/volume indexate ISI sau BDI	1 articol = FI + ΣFI_al_citarilor 1 articol = $FI_{articol}^* + \sum FI_{citare}^*$ $FI^* \equiv 0.1 + \text{Factor Impact}$	FI = factorul de impact ISI, FI = 0.1 pentru articole BDI respectiv FI=0 pentru alte tipuri de publicatii	61.275
			Din numărul de citări se exclud autocitările	
CDI-BRV	Brevete de invenție	1 brevet de invenție internațional = 3 puncte		0
		1 brevet de invenție național = 1 punct		1
CDI-MON	Monografii de specialitate sau capitole în monografii de specialitate	1 punct = 10 pagini contribuție monografie în editură de prestigiu din străinătate*	Springer	8.50
		1 punct = 50 pagini contribuție editură națională	Monografiile naționale trebuie să fie incluse în depozitul legal al Bibliotecii Naționale	0.28
Standard minimal conferențiar universitar		5 puncte		71.055

1.1. CDI-ART - Articole științifice publicate în reviste de specialitate cotate ISI, sau în reviste/volume indexate ISI sau BDI

$$1 \text{ articol} = FI^*_{\text{articol}} + \sum FI^*_{\text{citare}}; FI^* = 0.1 + \text{Factor de impact}$$

Nr. Crt.	Lucrare	Citare		Punctaj total
	Referința bibliografică	Punctaj	FI	
1	Gîrbacia, F. , Beraru, A., Talabă, D., Mogan, G. Visual depth perception of 3D CAD models in desktop and immersive virtual environments International Journal of Computers, Communications and Control, 7 (5), pp. 840-848, (2012) DOI: 10.15837/ijccc.2012.5.1339 indexată ISI Web of Knowledge, Scopus	0.1	0.694	0.794
	Beattie, N., Horan, B. and McKenzie, S., Taking the LEAP with the Oculus HMD and CAD-Plucking at thin Air?, Procedia Technology, 20, pp.149-154. 2015. DOI: http://dx.doi.org/10.1016/j.protcy.2015.07.025 indexată Elsevier, Google Scholar			0.1
	Bougaa, M., Bornhofen, S., Kadima, H. and Rivière, A., 3D Interaction in Virtual Environments for Systems Engineering. International Journal of Computer Theory and Engineering, 8(6), p.458. 2016 indexată Proquest Google Scholar			0.1
	Jovanovic, V. and Hartman, N.W., Web-based virtual learning for digital manufacturing fundamentals for automotive workforce training. International Journal of Continuing Engineering Education and Life Long Learning XIV, 23(3-4), pp.300-310. 2013 DOI: 10.1504/IJCEELL.2013.055403 indexată Scopus, Google Scholar			0.1
2	Gîrbacia, F. , Dumitru, A., Postelnicu, C., Duguleana, M., Gîrbacia, T., Butila, E., Beraru, A. and Mogan, G.,	0.1	0.917	0

	Effects of ADAS notifications on driver's visual attention under simulator driving conditions. In PERCEPTION ,Vol. 45, pp. 307-308, (2016), August, Abstract: 4P059 SAGE PUBLICATIONS LTD. indexată ISI Web of Knowledge					
3	Postelnicu, C.-C., Gîrbacia, F. , Talaba, D. EOG-based visual navigation interface development Expert Systems with Applications, 39 (12), pp. 10857-10866, (2012) DOI: 10.1016/j.eswa.2012.03.007 indexată ISI Web of Knowledge	0.1	2.981			3.081
	Hong, I., Bong, K., Shin, D., Park, S., Lee, K.J., Kim, Y. and Yoo, H.J., A 2.71 nJ/Pixel Gaze-Activated Object Recognition System for Low-Power Mobile Smart Glasses. IEEE Journal of Solid-State Circuits, 51(1), pp.45-55, (2016). DOI: 10.1109/JSSC.2015.2476786 indexată ISI Web of Knowledge			0.1	3.299	3.399
	Hortal, E., Iáñez, E., Úbeda, A., Perez-Vidal, C. and Azorín, J.M.,. Combining a Brain–Machine Interface and an Electrooculography Interface to perform pick and place tasks with a robotic arm. Robotics and Autonomous Systems, 72, pp.181-188, 2015 DOI: 10.1016/j.robot.2015.05.010 indexată ISI Web of Knowledge			0.1	1.618	1.718
	Sandra, D., Sriraam, N. Feature based reading skill analysis using electrooculogram signals Advances in Intelligent Systems and Computing, 452, pp. 233-244, (2016) DOI: 10.1007/978-981-10-1023-1_24 indexată ISI Web of Knowledge			0.1		0.1
	Phukpattaranont, P., Aungsakul, S., Phinyomark, A., Limsakul, C. Efficient feature for the classification of eye movements using electrooculography signals Thermal Science, 20, pp. S563-S572. (2016) DOI: 10.2298/TSCI151005038P indexată ISI Web of Knowledge			0.1	0.939	1.039

<p>Ramli, R., Arof, H., Ibrahim, F., Mokhtar, N., Idris, M.Y.I. Using finite state machine and a hybrid of EEG signal and EOG artifacts for an asynchronous wheelchair navigation Expert Systems with Applications, 42 (5), pp. 2451-2463. (2015) DOI: 10.1016/j.eswa.2014.10.052 indexată ISI Web of Knowledge</p>			0.1	2.981	3.981
<p>OuYang, R., Lv, Z. and Wu, X., An algorithm for reading activity recognition based on electrooculogram. In 10th International Conference on Information, Communications and Signal Processing (ICICS), 2015 (pp. 1-5). IEEE. DOI: 10.1109/ICICS.2015.7459903 indexată ISI Web of Knowledge</p>			0.1		0.1
<p>Ianosi-Andreeva-Dimitrova, A., Mândru, D.S. Control systems of rehabilitation engineering equipment - A review 2015 E-Health and Bioengineering Conference, EHB 2015, art. no. 7391377 (2016) DOI: 10.1109/EHB.2015.7391377 indexată ISI Web of Knowledge</p>			0.1		0.1
<p>Belkacem, A.N., Saetia, S., Zintus-Art, K., Shin, D., Kambara, H., Yoshimura, N., Berrached, N. and Koike, Y., Real-time control of a video game using eye movements and two temporal EEG sensors. Computational intelligence and neuroscience, 2015, p.1. DOI: 10.1155/2015/653639 indexată ISI Web of Knowledge</p>			0.1	0.43	0.53
<p>Aziz, F., Arof, H., Mokhtar, N., Mubin, M. HMM based automated wheelchair navigation using EOG traces in EEG Journal of Neural Engineering, 11 (5), art. no. 056018, (2014) DOI: 10.1088/1741-2560/11/5/056018 indexată ISI Web of Knowledge</p>			0.1	3.494	3.593
<p>Rusydi, M.I., Sasaki, M., Ito, S. Affine transform to reform pixel coordinates of EOG signals for controlling robot manipulators using gaze motions</p>			0.1	2.033	2.133

	Sensors (Switzerland), 14 (6), pp. 10107-10123. (2014) DOI: 10.3390/s140610107 indexată ISI Web of Knowledge					
	Nam, Y., Koo, B., Cichocki, A., Choi, S. GOM-face: GKP, EOG, and EMG-based multimodal interface with application to humanoid robot control IEEE Transactions on Biomedical Engineering, 61 (2), art. no. 6589166, pp. 453-462. (2014) DOI: 10.1109/TBME.2013.2280900 indexată ISI Web of Knowledge			0.1	2.468	2.568
	Mala, S., Latha, K. Feature selection in classification of eye movements using electrooculography for activity recognition Computational and Mathematical Methods in Medicine, 2014, art. no. 713818 (2014) DOI: 10.1155/2014/713818 indexată ISI Web of Knowledge			0.1	0.887	0.987
	Roza, V.C.C., Araujo, M.V.D., Alsina, P.J., Matamoros, E.P. EOG based interface to command a powered orthosis for lower limbs Proceedings - 2nd SBR Brazilian Robotics Symposium, 11th LARS Latin American Robotics Symposium and 6th Robocontrol Workshop on Applied Robotics and Automation, SBR LARS Robocontrol 2014 - Part of the Joint Conference on Robotics and Intelligent Systems, JCRIS 2014, art. no. 7024254, pp. 43-48. (2015) DOI: 10.1109/SBR.LARS.Robocontrol.2014.52 indexată ISI Web of Knowledge			0.1		0.1
	Iáñez, E., Azorin, J.M., Perez-Vidal, C. Using Eye Movement to Control a Computer: A Design for a Lightweight Electro-Oculogram Electrode Array and Computer Interface PLoS ONE, 8 (7), art. no. e67099, (2013) DOI: 10.1371/journal.pone.0067099 indexată ISI Web of Knowledge			0.1	3.057	3.157

<p>Lledó, L.D., Úbeda, A., Iáñez, E., Azorín, J.M. Internet browsing application based on electrooculography for disabled people Expert Systems with Applications, 40 (7), pp. 2640-2648. (2013) indexată ISI Web of Knowledge</p>			0.1	2.981	3.981
<p>Antonya, C. Accuracy of gaze point estimation in immersive 3D interaction interface based on eye tracking 12th International Conference on Control, Automation, Robotics and Vision, ICARCV 2012, art. no. 6485315, pp. 1125-1129. (2012) DOI: 10.1109/ICARCV.2012.6485315 indexată ISI Web of Knowledge</p>			0.1		0.1
<p>Aziz, F., Rahman, M.M., Ahmad, T., Jahan, M.S., Tosrif, T.M., Huq, M.M., Reza, C.M.F.S., Ahmed, A.U., Day, P., Badsha, S., Mamoon, A.A., Hasan, S.M.M. Discrimination analysis of EEG signals at eye open and eye close condition for ECS switching system 2013 International Conference on Electrical Information and Communication Technology, EICT 2013, art. no. 6777812, (2013) DOI: 10.1109/EICT.2014.6777812 Indexată Scopus</p>			0.1		0.1
<p>Zhang, J., Guo, F., Hong, J., Zhang, Y. Human-robot shared control of articulated manipulator (2013) Proceedings - 2013 IEEE International Symposium on Assembly and Manufacturing, ISAM 2013, art. no. 6643493, pp. 81-84. DOI: 10.1109/ISAM.2013.6643493 Indexată Scopus</p>			0.1		0.1
<p>Swami, P., Gandhi, T.K. Assistive communication system for speech disabled patients based on electro-oculogram character recognition (2014) 2014 International Conference on Computing for Sustainable Global Development, INDIACom 2014, art. no. 6828162, pp. 373-376. DOI: 10.1109/IndiaCom.2014.6828162</p>			0.1		0.1

	Indexată Scopus					
4	Gîrbacia, F., Butnariu, S., Orman, A. and Postelnicu, C., 2013. Virtual restoration of deteriorated religious heritage objects using augmented reality technologies. European Journal of Science and Theology, 9(2), pp.223-231. indexată ISI Web of Knowledge, Scopus	0.1	0.389			0.489
	Di Franco, P.D.G., Matthews, J.L. and Matlock, T., Framing the past: How virtual experience affects bodily description of artefacts. Journal of Cultural Heritage, 17, pp.179-187, 2016 DOI: 10.1016/j.culher.2015.04.006 indexată ISI Web of Knowledge,			0.1	1.533	1.633
	Durand, E., Merienne, F., Pere, C., Callet, P. Ray-on, an on-site photometric augmented reality device (2014) Journal on Computing and Cultural, 7 (2), art. no. 7, DOI: 10.1145/2629485 Indexată Scopus			0.1		0.1
	Inagaki, T. and Motoyama, K.,. ONSITE EXPERIENCE OF PAST EXHIBITIONS USING REALITY TECHNOLOGY AND DISPLAY OF SCULPTURE. In SGEM2014 CONFERENCE ON ARTS, PERFORMING ARTS, ARCHITECTURE & DESIGN (Vol. 1, No. SGEM2014 Conference Proceedings, , September 1-9, 2014, Vol. 1, 195-202 pp, pp. 195-202). STEF92 Technology. indexată ISI Web of Knowledge,			0.1		0.1
	Rubino, I., Xhembulla, J., Martina, A., Bottino, A. and Malnati, G.,. Musa: Using indoor positioning and navigation to enhance cultural experiences in a museum. Sensors, 13(12), pp.17445-17471. (2013) DOI: 10.3390/s131217445 indexată ISI Web of Knowledge			0.1	2.033	2.133
5	Gîrbacia, F.; Beraru, A.; Talaba, D. The influence of shape complexity in visual depth perception of CAD	0.1	0.917			1.017

	models PERCEPTION Volume: 41 Supplement: S Pages: 81-82 Meeting Abstract: 39 Published: 2012					
6	Butnariu, S., Georgescu, A., Gîrbacia, F. Using a natural user interface to enhance the ability to interact with reconstructed virtual heritage environments INFORMATICA - JOURNAL OF COMPUTING AND INFORMATICS, 40 (3), pp. 291-301, (2016) indexată ISI Web of Knowledge, Scopus	0.1				0.1
7	Girbacia, Teodora; Gîrbacia, Florin ; Duguleana, Mihai; et al. Augmented Reality System for Training Robotic Prostate Biopsy Needle Guidance Proceedings of the 10th International Conference on Virtual Learning Book Series: Proceedings of the International Conference on Virtual learning Pages: 254-258 Published: 2015 indexată ISI Web of Knowledge	0.1				0.1
8	Butnariu, S., Gîrbacia, F. Methodology for the identification of needles trajectories in robotic brachytherapy procedure using VR technology Applied Mechanics and Materials, 332, pp. 503-508. (2013) DOI: 10.4028/www.scientific.net/AMM.332.503 indexată ISI Web of Knowledge	0.1				0.1
	Liu, Shaoli; Xia, Zeyang; Liu, Jianhua; et al. Automatic Multiple-Needle Surgical Planning of Robotic-Assisted Microwave Coagulation in Large Liver Tumor Therapy PLOS ONE Volume: 11 Issue: 3 Article Number: e0149482 Published: MAR 16 2016 DOI: 10.1371/journal.pone.0149482 indexată ISI Web of Knowledge			0.1	3.057	3.157
	Galdau, B., Plitea, N., Vaida, C., Covaciu, F. and Pîsilă, D.,. Design and control system of a parallel robot for brachytherapy. In Automation, Quality and Testing, Robotics, 2014 IEEE International Conference on (pp. 1-6). IEEE. (2014)			0.1		0.1

	DOI: 10.1109/AQTR.2014.6857873 indexată Scopus, IEEE					
9	Butnariu, S., Gîrbacia, F. The command of a virtual industrial robot using a dedicated haptic interface Advanced Materials Research, 837, pp. 543-548. (2014) indexată ISI Web of Knowledge, Scopus	0.1				0.1
	Boboc, Razvan Gabriel; Dumitru, Adrian Iulian; Antonya, Csaba Point-and-Command Paradigm for Interaction with Assistive Robots INTERNATIONAL JOURNAL OF ADVANCED ROBOTIC SYSTEMS Volume: 12 Article Number: 75 Published: JUN 23 2015 indexată ISI Web of Knowledge			0.1	0.615	0.715
10	Butnariu, S., Gîrbacia, F. High quality 3D restoration of photographed structures using V.R. technologies Applied Mechanics and Materials, 464, pp. 391-398,(2014) indexată ISI Web of Knowledge	0.1				0.1
11	Butnariu, S., Gîrbacia, F. Development of a natural user interface for intuitive presentations in educational process. In Conference proceedings of» eLearning and Software for Education «(eLSE) (No. 02, pp. 74-79). Universitatea Nationala de Aparare Carol I. (2012) indexată ISI Web of Knowledge	0.1				0.1
	Antonya, C.,. Accuracy of gaze point estimation in immersive 3D interaction interface based on eye tracking. In Control Automation Robotics & Vision (ICARCV), 2012 12th International Conference on (pp. 1125-1129). IEEE. 2012, December DOI: 10.1109/ICARCV.2012.6485315 indexată Scopus, IEEE			0.1		0.1
	Kim, J., Kim, S., Hong, K., Jean, D. and Jung, K., Presentation Interface Based on Gesture and Voice Recognition. In Multimedia and Ubiquitous Engineering, pp. 75-81, 2014			0.1		0.1

	Springer Berlin Heidelberg. DOI: 10.1007/978-3-642-54900-7_11 indexată Springer, Scopus					
	Park, M., Kang, J., Park, S. and Cho, K., A Natural User Interface for E-learning Learners: Focused on the Automatic Speed Control of Multimedia Materials. International Journal of Multimedia & Ubiquitous Engineering, pp.347-358. (2014) indexată Scopus			0.1		0.1
	Qattous, H.K., TeachMe, a Programming by Example Customizable Gesture Recognition System. IJCSNS, 16(12), p.58. 2016. indexată Ebsco, Proquest, Google Scholar			0.1		0.1
	Ikram, W., Jeong, Y., Lee, B., Um, K. and Cho, K., Smart Virtual Lab Using Hand Gestures. In Advanced Multimedia and Ubiquitous Engineering (pp. 165-170). Springer Berlin Heidelberg. (2015) DOI: 10.1007/978-3-662-47487-7_25 indexată Springer, Scopus			0.1		0.1
	Wardhany, V.A., Kurnia, M.H., Sukaridhoto, S., Sudarsono, A. and Pramadihanto, D., Smart presentation system using hand gestures and Indonesian speech command. In Electronics Symposium (IES), 2015 International (pp. 68-72). IEEE. 2015, September. DOI: 10.1109/ELECSYM.2015.7380816 indexată Scopus, IEEE			0.1		0.1
	Hijjawi, M., AlSheikSalem, O. and Qattous, H., 2017. An Empirical Evaluation of Gesture Recognition System for Education Purposes. In International Journal of Computer Science and Network Security (IJCSNS), 17(3), p.26.			0.1		0.1

	indexată Proquest, Google Scholar					
12	Gîrbacia, Florin ; Butnariu, Silviu AN INNOVATIVE APPROACH TO TEACHING MECHANISM USING AUGMENTED REALITY TECHNOLOGIES Edited by: Frunzeti, T; Jugureanu, R; Ciolan, L; et al. Conference: 8th International Scientific Conference eLearning and Software for Education Location: Bucharest, ROMANIA Date: APR 26-27, 2012 LEVERAGING TECHNOLOGY FOR LEARNING, VOL II Book Series: eLearning and Software for Education Pages: 140-143 Published: 2012 indexată ISI Web of Knowledge	0.1				0.1
	Antonya, Csaba Force Feedback in String Based Haptic Systems 2013 INTERNATIONAL CONFERENCE ON VIRTUAL AND AUGMENTED REALITY IN EDUCATION Book Series: Procedia Computer Science Volume: 25 Pages: 90-97 Published: 2013 indexată ISI Web of Knowledge			0.1		0.1
	Antonya, Csaba Hybrid Dynamic Model for Haptic Systems with Planar Mechanisms PROCEEDINGS OF THE 2013 6TH IEEE CONFERENCE ON ROBOTICS, AUTOMATION AND MECHATRONICS (RAM) Pages: 174-178 Published: 2013 indexată ISI Web of Knowledge			0.1		0.1
13	Gîrbacia, Florin ; Duguleana, Mihai; Stavar, Adrian Off-Line Programming of Industrial Robots Using Co-Located Environments ADVANCED MATERIALS RESEARCH II, PTS 1 AND 2 Book Series: Advanced Materials Research Volume: 463-464 Pages: 1654-1657 Published: 2012 DOI: 10.4028/www.scientific.net/AMR.463-464.1654 indexată ISI Web of Knowledge, Scopus	0.1				0.1
	Abreu, P.; Barbosa, M. R.; Lopes, A. M.			0.1		0.1

	Experiments with a Virtual Lab for Industrial Robots Programming INTERNATIONAL JOURNAL OF ONLINE ENGINEERING Volume: 11 Issue: 5 Pages: 10-16 Published: 2015 indexată ISI Web of Knowledge					
	Abreu, Paulo; Barbosa, Manuel Romano; Lopes, Antonio Mendes Robotics virtual lab based on off-line robot programming software 2013 2ND EXPERIMENT@ INTERNATIONAL CONFERENCE (EXP.AT'13) Pages: 109-113 Published: 2013 DOI: 10.1109/ExpAt.2013.6703040 indexată ISI Web of Knowledge			0.1		0.1
	Sittner, F., Aschenbrenner, D., Fritscher, M., Kheirkhah, A., Kraus, M. and Schilling, K., 2013. Maintenance and telematics for robots (maintelrob). IFAC Proceedings Volumes, 46(29), pp.113-118. DOI: 10.3182/20131111-3-KR-2043.00010 Indexată Scopus, Elsevier Science direct			0.1		0.1
	IOANEȘ, C. and CHIOREANU, A., CURRENT TRENDS REGARDING THE INTUITIVE PROGRAMMING OF INDUSTRIAL ROBOTS. ACTA TECHNICA NAPOCENSIS-Series: APPLIED MATHEMATICS, MECHANICS, and ENGINEERING, 55(1). 2012. Indexata Google Scholar			0.1		0.1
14	Gîrbacia, Florin; Mogan, Gheorghe; Paunescu, Tudor AR-based Off-Line Programming of the RV-M1 Robot Edited by: Gogu, G; Maniu, I; Lovasz, EC; et al. Conference: 11th International Conference on Mechanisms and Mechanical Transmissions/International Conference on Robotics Location: Clermont Ferrand, FRANCE Date: JUN 06-08, 2012 Book Series: Applied Mechanics and Materials Volume: 162 Pages: 344-351 Published: 2012 DOI: 10.4028/www.scientific.net/AMM.162.344 indexată ISI Web of Knowledge	0.1				0.1
	Pai, Yun Suen; Yap, Hwa Jen; Dawal, Siti Zawiah Md; et al.			0.1	5.228	5.328

	Virtual Planning, Control, and Machining for a Modular-Based Automated Factory Operation in an Augmented Reality Environment SCIENTIFIC REPORTS Volume: 6 Article Number: 27380 Published: JUN 7 2016 indexată ISI Web of Knowledge					
	Pai, Yun Suen; Yap, Hwa Jen; Singh, Ramesh Augmented reality-based programming, planning and simulation of a robotic work cell PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART B-JOURNAL OF ENGINEERING MANUFACTURE Volume: 229 Issue: 6 Pages: 1029-1045 Published: JUN 2015 indexată ISI Web of Knowledge			0.1	0.978	1.078
15	Adrian, Stavar; Madalina, Dascalu L.; Gîrbacia, Florin ; et al. WALKING COMPENSATION TREADMILL BASED SYSTEM: DEVICE, ENVIRONMENT AND TESTING METHOD Book Group Author(s): ASME PROCEEDINGS OF THE 2011 3RD INTERNATIONAL CONFERENCE ON FUTURE COMPUTER AND COMMUNICATION (ICFCC 2011) Pages: 133-138 Published: 2011, ASME DOI:10.1115/1.859711.paper21 indexată ISI Web of Knowledge	0.1				0.1
16	Butnaru, Tiberiu; Gîrbacia, Florin ; Butnaru, Silviu; et al. An approach for teaching mechanisms using haptic systems PROCEEDINGS OF THE 6TH INTERNATIONAL CONFERENCE ON VIRTUAL LEARNING, ICVL 2011 Book Series: Proceedings of the International Conference on Virtual learning Pages: 30-36 Published: 2011 indexată ISI Web of Knowledge	0.1				0.1
	Jose, J., Akshay, N. and Bhavani, R.R., Learning Elementary Physics through Haptic Simulations. In Proceedings of the 2014 International Conference on Interdisciplinary Advances in Applied Computing (p. 27). ACM, 2014,.			0.1		0.1

	indexată Scopus					
	Bogdan, C.M., Hamza-Lup, F. and Popovici, D.M., Haptic feedback systems in education. In Conference proceedings of» eLearning and Software for Education «(eLSE) (No. 01, pp. 509-514). Universitatea Nationala de Aparare Carol I., 2013. indexată Google Scholar			0.1		0.1
	Koul, M.H., Saha, S.K. and Manivannan, M., Teaching mechanism dynamics using a haptic device. In Proceedings of the 1st International and 16th National Conference on Machines and Mechanisms (iNaCoMM2013), IIT Roorkee, India, 2013, December indexată Google Scholar			0.1		0.1
	HAMZA-LUP, F., POPOVICI, D. and BOGDAN, C., Haptic feedback systems in medical education. Journal of Advanced Distributed Learning Technology, 1(2), pp.7-16. 2013 indexată Google Scholar			0.1		0.1
17	Butnaru, T., Gîrbacia, F. Collaborative pre-surgery planning in a tele-immersive environment using VR technology IFMBE Proceedings, 26, pp. 9-14. (2009) Ed. Springer DOI: 10.1007/978-3-642-04292-8_3 indexată ISI Web of Knowledge, Scopus	0.1				0.1
	Morimoto, Tania K.; Greer, Joseph D.; Hsieh, Michael H.; et al. Surgeon Design Interface for Patient-Specific Concentric Tube Robots 2016 6TH IEEE INTERNATIONAL CONFERENCE ON BIOMEDICAL ROBOTICS AND BIOMECHATRONICS (BIOROB) Book Series: Proceedings of the IEEE RAS-EMBS International Conference on Biomedical Robotics and Biomechatronics Pages: 41-48 Published: 2016 indexată ISI Web of Knowledge			0.1		0.1
18	Dreucean, M., Sticlaru, C., Hoigne, D., Gîrbacia, F. Engineering aspects of pre-surgery planning using virtual reality	0.1				0.1

	(2009) Annals of DAAAM and Proceedings of the International DAAAM Symposium, pp. 749-750. indexată ISI Web of Knowledge					
19	Erdelyi, H., Talaba, D., Gîrbacia, F. Virtual prototyping of an automobile steering system using haptic feedback (2009) Proceedings of the 2nd WSEAS International Conference on Sensors and Signals, SENSIG '09, Visualization, Imaging and Simulation, VIS '09, Materials Science, MATERIALS '09, pp. 21-26. indexată ISI Web of Knowledge	0.1				0.1
	Renno, F. and Terzo, M.,. Close-Range Photogrammetry Approach for the Virtual Prototyping of an Automotive Magnetorheological Semi-active Differential. Engineering Letters, 23(3), 2015 indexată Scopus			0.1		0.1
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	Fiorentino, Michele; Uva, Antonio E.; Monno, Giuseppe PRODUCT MANUFACTURING INFORMATION MANAGEMENT IN INTERACTIVE AUGMENTED TECHNICAL DRAWINGS			0.1		0.1

	PROCEEDINGS OF THE ASME WORLD CONFERENCE ON INNOVATIVE VIRTUAL REALITY - 2011 Pages: 113-122 Published: 2011 indexată ISI Web of Knowledge					
21	Florin, Gîrbacia ; Tiberiu, Butnaru; Cristian, Postelnicu; et al. METHODS FOR MOBILE ROBOTS PATH PLANNING BASED ON CO-LOCATED ENVIRONMENT Book Group Author(s): ASME PROCEEDINGS OF THE 2011 3RD INTERNATIONAL CONFERENCE ON FUTURE COMPUTER AND COMMUNICATION (ICFCC 2011) Pages: 139-144 Published: 2011 DOI: 10.1115/1.859711.paper22 indexată ISI Web of Knowledge	0.1				0.1
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23	Cristian-Cezar, Postelnicu; Florin, Gîrbacia ; Mihai, Duguleana; et al. EOG-BASED TELEOPERATION OF A MOBILE ROBOT Book Group Author(s): ASME PROCEEDINGS OF THE 2011 3RD INTERNATIONAL CONFERENCE ON FUTURE COMPUTER AND COMMUNICATION (ICFCC 2011) Pages: 151-156 Published: 2011 indexată ISI Web of Knowledge	0.1				0.1
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25	Gîrbacia, F. An approach to an augmented reality interface for computer aided design Annals of DAAAM and Proceedings of the International DAAAM Symposium, pp. 791-792. (2010) indexată Scopus, Google Scholar	0.1				0.1
	Krichenbauer, M., Yamamoto, G., Taketomi, T., Sandor, C. and Kato, H., Towards Augmented Reality user interfaces in 3D media production. In Mixed and Augmented Reality (ISMAR), 2014 IEEE International Symposium on (pp. 23-28). IEEE. 2014			0.1		0.1

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27	Girbacia, T., Gîrbacia, F. , Mogan, G. Virtual planning of robot trajectories for spray painting applications Applied Mechanics and Materials, 658, pp. 632-637. (2014) DOI: 10.4028/www.scientific.net/AMM.658.632 indexată Scopus	0.1				0.1
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29	Gîrbacia, F. Evaluation of cognitive effort in the perception of engineering drawings as 3D models ACHI 2012 - 5th International Conference on Advances in Computer- Human Interactions, pp. 247-250. (2012) indexată Scopus	0.1				0.1

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	<p>Langley, A.; Lawson, G.; Hermawati, S.; et al.</p> <p>Establishing the Usability of a Virtual Training System for Assembly Operations within the Automotive Industry</p> <p>HUMAN FACTORS AND ERGONOMICS IN MANUFACTURING & SERVICE INDUSTRIES Volume: 26 Issue: 6 Pages: 667-679</p> <p>Published: DEC 2016</p> <p>indexată ISI Web of Knowledge, Scopus</p>			0.1	0.462	0.562
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41	Gîrbacia, Florin , and Teodora Gîrbacia Tehnologii de interfaţare naturală aplicate în proiectarea asistată de	0.1				0.1

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42	Gîrbacia, F. , Gîrbacia, T. and Butnariu, S.,. DESIGN REVIEW OF CAD MODELS USING A NUI LEAP MOTION SENSOR. Journal of Industrial Design & Engineering Graphics, 10, 2015 Indexata: Proquest, Google Scholar, EBSCO - Publishing	0.1				0.1
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48	Boboc R., Gîrbacia, F. , Duguleana, M., A handheld Augmented Reality to revive a demolished Reformed Church from Braşov. In Proceedings of 19th ACM Virtual Reality International Conference VRIC 2017; Laval, France; 23-27 Martie 2017, ACM.	0.1				0.1
Total						61.275

1.2. CDI-BRV - Brevete de invenție

Nr. Crt.	Denumire	Punctaj
1.	Doru Talaba, Florin Gîrbacia , Tiberiu Butnaru, Sebastian Sisca , „ <i>Sistem Reconfigurabil de Vizualizare Stereoscopica</i> ”, Brevet de Invenție nr. RO125800B1 , An aparitie:2014	1

1.3. CDI - MON – 1- Monografii de specialitate sau capitole în monografii de specialitate naționale: 1 punct = 50 pagini

Nr. Crt.	Referința bibliografică	Nr. Pag.	Punctaj
1.	Gîrbacia F., Talabă D., Notiuni introductive de Realitate Virtuala, carte :TEHNOLOGIILE REALITATII VIRTUALE. Lucrari practice editura:Universității Transilvania, ISBN:978-606-19-0071-8 , 2012.	14	0.28

1.4. CDI - MON – 2- Monografii de specialitate sau capitole în monografii de specialitate internationale 1 punct = 10 pagini

Nr. Crt.	Referința bibliografică	Nr. Pag.	Punctaj
1	Gîrbacia, F. , Boboc, R., Gherman, B., Gîrbacia, T., Pîsla, D. Planning of needle insertion for robotic-assisted prostate biopsy in augmented reality using RGB-D camera Chapter in: Borangiu T. (eds) Advances in Robot Design and Intelligent Control, No.540, Chapter No: 56, pp. 515-522 Springer International Publishing, 2017 DOI: 10.1007/978-3-319-49058-8_56 ISBN: 978-3-319-49057-1 https://link.springer.com/chapter/10.1007/978-3-319-49058-8_56	7	0.7

2	<p>Gîrbacia, F., Pîslă, D., Butnariu, S., Gherman, B., Gîrbacia, T., Plitea, N. An evolutionary computational algorithm for trajectory planning of an innovative parallel robot for brachytherapy Chapter in: Corves B., Lovasz EC., Hüsing M., Maniu I., Gruescu C. (eds) New Advances in Mechanisms, Mechanical Transmissions and Robotics. Mechanisms and Machine Science, New Advances in Mechanisms, Mechanical Transmissions and Robotics, Volume 46 of the series Mechanisms and Machine Science pp. 427-435 Springer International Publishing, 2017 DOI: 10.1007/978-3-319-45450-4_43 ISBN 978-3-319-45449-8. https://link.springer.com/chapter/10.1007/978-3-319-45450-4_43</p>	8	0.8
3	<p>Duguleana, M., Brodi, R., Gîrbacia, F., Postelnicu, C., Machidon, O., Carrozzino, M. Time-travelling with mobile augmented reality: A case study on the piazza dei Miracoli Chapter in: Ioannides M. et al. (eds) Digital Heritage. Progress in Cultural Heritage: Documentation, Preservation, and Protection, LNCS vol. 10058, pp. 902-912. Springer International Publishing, 2016 DOI: 10.1007/978-3-319-48496-9_73 ISBN:978-3-319-48495-2 https://link.springer.com/chapter/10.1007/978-3-319-48496-9_73</p>	10	1
4	<p>Pîsla, D., Gherman, B., Gîrbacia, F., Vaida, C., Butnariu, S., Gîrbacia, T., Plitea, N. Optimal Planning of Needle Insertion for Robotic-assisted Prostate Biopsy, Chapter in: Borangiu T. (eds) Advances in Robot Design and Intelligent Control, Advances in Intelligent Systems and Computing Volume 371, 2016, pp. 339-346, Springer International Publishing, 2015 DOI: 10.1007/978-3-319-21290-6_34, ISBN: 978-3-319-21289-0. https://link.springer.com/chapter/10.1007/978-3-319-21290-6_34</p>	7	0.7
5	<p>Pantea, A., Gîrbacia, F. and Gîrbacia, T. Development of an Advanced Driver Assistance System Using RGB-D Camera Chapter in: Chiru A., Ispas N. (eds) International Congress of Automotive and Transport Engineering, pp. 746-751, Springer International Publishing, 2016 DOI: 10.1007/978-3-319-45447-4_82,</p>	5	0.5

	ISBN: 978-3-319-45446-7 https://link.springer.com/chapter/10.1007/978-3-319-45447-4_82		
6	Postelnicu, C.C., Machidon, O.M., Gîrbacia, F. , Voinea, G.D. and Duguleana, M. Effects of playing mobile games while driving Chapter in: Streitz N., Markopoulos P. (eds) International Conference on Distributed, Ambient, and Pervasive Interactions Lecture Notes in Computer Science, vol 9749, pp. 291-301, Springer International Publishing, 2016 DOI: 10.1007/978-3-319-39862-4_27 ISBN: 978-3-319-39861-7 https://link.springer.com/chapter/10.1007/978-3-319-39862-4_27	10	1
7	Machidon, O.M., Postelnicu, C.C. and Gîrbacia, F.S. 3D Reconstruction as a Service–Applications in Virtual Cultural Heritage Chapter in: De Paolis L., Mongelli A. (eds) Augmented Reality, Virtual Reality, and Computer Graphics. AVR 2016. Lecture Notes in Computer Science, vol 9769, pp. 261-268 Springer International Publishing, 2016 DOI: 10.1007/978-3-319-40651-0_21, ISBN: 978-3-319-40650-3 https://link.springer.com/chapter/10.1007/978-3-319-40651-0_21	7	0.7
8	Duguleana, M., Gîrbacia, F. , Postelnicu, C., Beraru, A. and Mogan, G., (2015): Aspects Concerning the Calibration Procedure for a Dual Camera Smartphone Based ADAS In: Streitz N., Markopoulos P. (eds) Distributed, Ambient, and Pervasive Interactions. DAPI 2015. Lecture Notes in Computer Science, vol 9189, pp. 408-417, Springer International Publishing. DOI: 10.1007/978-3-319-20804-6_37, ISBN: 978-3-319-20803-9 https://link.springer.com/chapter/10.1007/978-3-319-20804-6_37	9	0.9
9	Runde, C., Gîrbacia, F. , Butila, E. Virtual & augmented environments for concurrent engineering - Concurrent Virtual engineering Chapter in: Stjepandić J., Rock G., Bil C. (eds) Concurrent Engineering Approaches for Sustainable Product Development in a Multi-Disciplinary Environment, pp. 849-860 Springer, London, 2013 DOI: 10.1007/978-1-4471-4426-7_72, ISBN: 978-1-4471-4425-0.	11	1.1

	https://link.springer.com/chapter/10.1007/978-1-4471-4426-7_72		
10	Oancea, G., Gîrbacia, F. and Nedelcu, A., Software Module for Data Exchange Between AutoCAD and a Virtual Reality System Chapter in: Talaba D., Amditis A. (eds) Product Engineering, pp. 383-394 Springer Netherlands, 2008 DOI: 10.1007/978-1-4020-8200-9_19 ISBN: 978-1-4020-8199-6 https://link.springer.com/chapter/10.1007%2F978-1-4020-8200-9_19	11	1.1
Total			8.5

2. Activitate didactică și profesională (DID)

Indicatori DID	Descriere	Punctaj	Observații	Punctaj
DID-MSC (min. 60% din punctaj standard minimal)	Manuale suport curs, format tipărit sau format electronic	1 punct = 50 pagini	Candidatul trebuie sa fie autor principal (autor unic sau primul autor) al manualului. Pentru formatul electronic calitatea de autor principal este certificată de conducerea departamentului	9,2
DID-LAB	Standuri/laboratoare pentru activități didactice realizate / dezvoltate de candidat, cu lucrări de laborator elaborate de candidat și incluse în îndrumător laborator format tipărit sau format electronic	1 punct = 1 lucrare de laborator cu infrastructură realizată/dezvoltată de candidat	Pentru standurile sau laboratoarele didactice, calitatea de dezvoltator este certificată de conducerea departamentului	6,00
Standard minimal conferențiar universitar		5 puncte		15,2

DID-MSD- Manuale suport curs format tiparit sau format electronic : 1 punct = 50 pagini

Nr. Crt.	Referința bibliografică	Nr. pagini	Punctaj
1.	Gîrbacia Florin – „Tehnologii de Realitate Virtuala si Augmentata Aplicate in Inginerie. Note de curs”, Editura Universitatii Tranilvania din Brasov. 2016. ISBN 978-606-19-0784-7	256	5.12
2.	Gîrbacia Florin – „Computer aided design and graphics programming : lecture notes”, Editura Universitatii Tranilvania din Brasov, 2016, ISBN 978-606-19-0784-7	204	4.08
Total punctaj DID-MSD			9.2

DID-LAB - Standuri/laboratoare pentru activitati didactice realizate sau dezvoltate, cu lucrari de laborator elaborate si incluse in indrumar laborator format tiparit sau electronic : 1 punct

Nr. Crt.	Referința bibliografică	Punctaj
1.	Gîrbacia Florin – „Generarea imaginilor stereoscopice pasive” , TEHNOLOGIILE REALITATII VIRTUALE. Lucrari practice, Ed. Universității Transilvania, ISBN 978-606-19-0071-8, An aparitie:2012	1
2.	Gîrbacia Florin – „Generarea imaginilor stereoscopice active” , TEHNOLOGIILE REALITATII VIRTUALE. Lucrari practice, Ed. Universității Transilvania, ISBN 978-606-19-0071-8, An aparitie:2012	1
3.	Gîrbacia Florin – „Interactiunea cu scena virtuală VRML utilizand Joystick-ul” , TEHNOLOGIILE REALITATII VIRTUALE. Lucrari practice, Ed. Universității Transilvania, ISBN 978-606-19-0071-8, An aparitie:2012	1
4.	Gîrbacia Florin – „Navigarea în scenele virtuale tridimensionale VRML” , TEHNOLOGIILE REALITATII VIRTUALE. Lucrari practice, Ed. Universității Transilvania, ISBN 978-606-19-0071-8, An aparitie:2012	1
5.	Gîrbacia Florin – „Urmărirea și identificarea mișcărilor utilizatorului” , TEHNOLOGIILE REALITATII VIRTUALE. Lucrari practice, Ed. Universității Transilvania, ISBN 978-606-19-0071-8, An aparitie:2012	1
6.	Gîrbacia Florin – „Dezvoltarea aplicatiilor de Realitate Augmentată utilizand limbajul VRML” , TEHNOLOGIILE REALITATII VIRTUALE. Lucrari practice, Ed. Universității Transilvania, ISBN 978-606-19-0071-8, An aparitie:2012	1
Total punctaj DID-LAB		6

2. Recunoaștere și impactul activității (RIA) (minim 5 puncte)

Indicatori RIA	Descriere	Punctaj	Observații	Punctaj
RIA-GRA	Director sau responsabil partener grant internațional	1 punct = 10000 EUR	<ul style="list-style-type: none"> Calitatea de director sau responsabil partener este certificată de reprezentantul legal al instituției în cadrul căreia a fost derulat grantul sau contractul 	33
	Director sau responsabil partener grant național	1 punct = 50000 RON		32.568
RIA-CTR	Director contract cu beneficiar din mediul economic internațional	1 punct = 2000 EUR	<ul style="list-style-type: none"> Sunt luate în considerare sumele încasate exclusiv de instituția în care a fost derulat grantul (la proiectele tip consorțiu se consideră suma alocată instituției) <p>Punctajul pentru sumele prevăzute la RIA-GRA și RIA-CTR este de 0.25 puncte pentru membru în echipă, în loc de 1 punct pentru director / responsabil partener</p>	16.725
	Director contract cu beneficiar din mediul economic național	1 punct = 10000 RON		0
Standard minimal conferențiar universitar		5 puncte		82.293

Criteriul RIA-GRA

Proiecte câștigate prin competiție națională în calitate de director

Denumire proiect	Tip proiect	Perioada de implementare	Funcția în proiect	Valoare proiect / partener	Punctaj obținut
PN-II-PT-PCCA-2013-4-0647 – ROBOCORE – Biopsia prostatei asistata robotic, o metoda inovativa de mare precizie, Contract numărul: 247/2014	National, PCCA TIP 2	2014-2017	Responsabil partener	150000 lei	3

Proiecte câștigate prin competiție în calitate de membru în echipă

Denumire proiect	Tip proiect	Perioada de implementare	Funcția în proiect	Valoare proiect / partener	Punctaj obținut
H2020-TWINN-2015 – eHERITAGE Expanding the Research and Innovation Capacity in Cultural Heritage Virtual Reality Applications, Contract numarul: 692103	International, EU- H2020-TWINN-2015	2016-2019	Membru în echipă	420000 EURO	10.5
FP6- Virtual Reality in Product Design and Robotics – VEGA, Contract numarul: 016565	International, EU- FP6 – SSA Project	2005-2008	Membru în echipă	900000 EURO	22.5
NAVIEYES: Asistent inteligent de navigare auto pentru dispozitive mobile bazat pe urmărirea privirii, Contract Nr. 240/ 2014	National, PCCA TIP 2	2014-2017	Membru în echipă	894250 lei	4.4710
SPINE- Sistem de diagnosticare și terapie a afecțiunilor coloanei vertebrale, PN-II-PT-PCCA-2013-4-1596, Contract Nr. 227/2014	National, PCCA TIP 2	2014-2017	Membru în echipă	1437409 lei	7.1870
CHANCE- Brahiterapia asistată robotic, o abordare inovativă în terapia cancerelor, Contract Nr. 227/2014inoperabile	National, PCCA TIP 2	2012-2016	Membru în echipă	300000 lei	1.5
EXORAS- Nou sistem haptic de tip exoschelet pentru robotica si automatica spatiaala, NrContract:13 / 2012	National, Agenția Spațială Română – ROSA	2012-2015	Membru în echipă	174500 lei	0.8720
IREAL – Interfață cu retur haptic pentru	National,	2007-2010	Membru în echipă	907068.12 lei	4.5350

prototiparea virtuală în mediu imersiv, Nr. 96/2007	Bugetul de stat – UEFISCSU				
TOMIS – Utilizarea realității virtuale în reconstruirea Multimodală 3D a site-urilor Istorice, NrContract:Nr. 11-041/14.09.2007	National, Buget de stat – Ministerul educatiei, Cercetării si Tineretului, Programul Parteneriate în domeniile prioritare	2007-2009	Membru în echipă	257757 lei	1.2880
MERVI – Mediu colaborativ de Realitate Virtuala pentru planificare pre-operatorie in ortopedie , NrContract:CEEX-II-03/15.08.2006	National, CEEX-II, Buget de Stat – Autoritatea Natională pentru Cercetare Stiintifică	2006-2008	Membru în echipă	1635500 lei	8.1770
VIRPE- Realitate Virtuala pentru Ingineria Produsului, CEEX-II-5920/2006	National, CEEX-II,Buget de Stat – Autoritatea Natională pentru Cercetare Stiintifică	2006-2008	Membru în echipă	162650 lei	0.8130
Simularea in timp real a sistemelor multicorp cu elemente rigide si deformabile	National, CNC SIS Tip A	2007-2008	Membru în echipă	145000 lei	0.725
Total					62.568

Criteriul RIA-CTR

Contracte cu beneficiar din mediul economic internațional

Denumire proiect	Tip proiect	Perioada de implementare	Funcția în proiect	Valoare proiect / partener	Punctaj obținut
Proiect CDS Dynamic Tribology, Contract cu Schaeffler, nr. 4029/26.03.2008, Act adit.6 13494/19.10.2016	International, Schaeffler Technologies AG & Co. KG	2016-2017	Director	24800 EUR	12.4
Proiect CDS Dynamic Tribology, Contract cu Schaeffler, nr. 4029/26.03.2008, Act adit. 5 Nr:1291/04.02.2015	International, Schaeffler Technologies AG & Co. KG	2014-2016	Membru în echipă	34069.77 EUR	4.325
Total					16.725

19.07.2017

Director de departament,
Prof. dr. ing. Nicolae ISPAS

Candidat,
Șef. lucr. dr. ing. Florin Stelian Gîrbacia